

Short Resumé

Elaine van der Linde

Personal Data

Identity Number 771224 0049 083
Sex Female
Nationality South African
Language Skills Afrikaans & English (speak, read and write)

Educational Qualifications (higher)

Name of Institution	Degree Obtained	Dates Attended
University of the Free State, RSA	Masters in Environmental Management	2004 – 2005
University of Pretoria, RSA	B.Sc (Hons) Engineering Geology	1999
University of Pretoria, RSA	B.Sc Geology	1996 – 1998
University of South Africa	B. Com Business Management	2003 – 2009

Professional Registrations

Registration/Licensing Body	Type of Registration	Dates Obtained
International Register of Certified Auditors (IRCA)	Environmental Lead Auditor 2004/2015 Certificate number 01200720	April 2012
Exemplar Global (previously RABQSA International, Inc)	Environmental Lead Auditor EMS Certificate number 115197	June 2012
Professional Evaluation and Certification Board (PECB)	Environmental Lead Auditor Certificate number EMLA1010466-2016-03	March 2016
The South African Council for Natural Scientific Professions	Professional Natural Scientist (Pr.Sci.Nat. number 400219)	August 2005
Geological Society of South Africa (GSSA)	Member Membership number 965302	September 2004
South African Institute for Engineering & Environmental Geologists	Member Membership number 07/236	February 2009
Ground Water Division of the GSSA	Professional Member Membership number 105	October 2009
Water Institute of South Africa	Member Membership number 39303	July 2019

Professional Experience

Period: January 2000 – August 2002
Company Name: Department of Water Affairs and Forestry – Regional Office
Post: Water Pollution Control Officer (Water Quality)
Job Description : Implementation of Catchment Management Strategies through the establishment of Catchment Management Agencies. The processing of applications for water use licensing in terms of the Water Use Authorisation Registration and Management System. Handling inquiries / complaints from the public pertaining to water quality issues. Evaluation of Environmental Management Programmes (EMP's) and Environmental Impact Assessments (EIA's) for mines and industries. Co-ordination of sampling programmes in the catchment and setting of water quality objectives for water resource in the catchment. Assisted with the testing, deployment and implementation of the Employee and Forum Structures as well as the Address Module of the WMS system. Formulate, implement and guide groundwater assessment, exploration, development and management programmes. Plan and oversee the implementation of groundwater monitoring and information systems.

Period: September 2002 – February 2004
Company Name: Department of Water Affairs and Forestry – National Office
Post: Senior Geohydrologist (Groundwater Resource Management)
Job Description: Development of policies, strategies & tools for groundwater as part of Integrated Water Resource Management in terms of the National Water Act, 1998 (Act 36 of 1998). Establishment and support of Water Management Institutions in Water Management Areas. Ensure protection of groundwater resources and minimization of impacts of waste and land based activities on water resources. Support policy development for protection of water based ecosystem. Engage in development of classification system for groundwater resources. Develop strategies and tools to conserve & enhance available water resources in a catchment, including the use of artificial recharge of groundwater resources and for exceptional water use. Development of guidelines and tools to implement the Groundwater Quality Management Strategy. Ensuring that groundwater is adequately addressed in the Catchment Management Strategies of CMA's. Development of capacity for groundwater resource management within the management hierarchy of national, catchment and water user association levels.

Period: February 2006 – February 2008
Company Name: M2 Environmental Connections CC
Post: Environmental Consultant
Job Description: Compilation of Environmental Management Programme Reports according to the requirements of the Department: Minerals and Energy. Compilation of Scoping and Environmental Impact Assessment Reports according to the requirements of the Department: Environmental Affairs and Tourism. Ensure that Water Use Licenses are done to standard for clients and that approval is obtained from Department of Water Affairs and Forestry in an efficient time span. Compilation of Integrated Water and Waste Management Plans for clients to assist in their Water Use License Applications. Assist the Department of Water Affairs and Forestry in the compilation of Water Use Licenses in relation to the requirements of the relevant legislation. Environmental Management Programme Auditing and Due Diligence Reporting in terms of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

Period: February 2004 – February 2006
Company Name: Groundwater Consulting Services (Pty) Ltd
Post: Unit Manager: Water Use Management
Job Description: Ensure that Water Use Licenses are done to standard for clients and that approval is obtained from Department of Water Affairs and Forestry in an efficient time span. Compilation of Integrated Water and Waste Management Plans for clients to assist in their Water Use License Applications. Assist in the establishment of Water User Associations in terms of the National Water Act of 1998 (Act 36 of 1998). Assist the Department of Water Affairs and Forestry in various evaluations of documentation presented to the Department in a professional manner. Assist the Department of Water Affairs and Forestry in achieving the validation and verification process in terms of the National Water Act of 1998 (Act 36 of 1998). Standard Environmental Management Programme Auditing and Due Diligence Reporting in terms of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

Period: March 2006 – Present
Company Name: Prescali Environmental Consultants (Pty) Ltd
Post: Managing Director
Job Description : Managing cash flows of company in accordance with the Companies Act. Compilation of and peer review of Environmental Management Programme Reports according to the requirements of the Department: Minerals Resources. Compilation of and peer review of Scoping and Environmental Impact Assessment Reports according to the requirements of the Department: Environmental Affairs and Tourism. Ensure that Water Use Licenses are done to standard for clients and that

approval is obtained from Department of Water and Sanitation in an efficient time span. Compilation of and peer review of Integrated Water and Waste Management Plans for clients to assist in their Water Use License Applications. Assist the Department of Water and Sanitation in the compilation of Water Use Licenses in relation to the requirements of the relevant legislation. Development of Rehabilitation Plans in order to ensure that the financial provisioning as well as future rehabilitation of various projects is conducted in relation to the requirements as set out Nationally as well as Internationally. Environmental Management Programme Auditing in terms of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002) and ISO 14001 principles. Environmental audits in terms of the National Environmental Management Act 1998 (Act 107 of 1998) and ISO 14001 principles. Water Use Licence Audits in terms of the National Water Act of 1998 (Act 36 of 1998) and the relevant issued Water Use Licence. Waste Licence Audits in terms of the National Environmental Management Waste Act of 2008 (Act 59 of 2008) and the relevant issued Waste Management Licence. ISO14001:2004 as well as ISO14001:2015 Audits in relation to the requirements of ISO19011 as external, 3rd Party auditor within a number of scopes/industries for a number of International Certification Bodies. Provide environmental specific training to various sectors with regards to the legal requirements as specified within the South African legal context Provide training in terms of ISO14001:2004, ISO14001:2015, and Introduction to Environmental Management. Ensure that all projects are executed in accordance with contract specifications within the specified time frame, and in compliance with all legal requirements, thus providing quality service and documentation which is of exceptionally good value and satisfaction to our clients. Managing all aspects of quality, health and safety within the company through the development of a quality and health and safety policy, procedures, and risk assessments. Ensure workers' health and safety by providing information, instructions, training, and supervision.

Short Resumé

I, Elaine van der Linde, the duly appointed Managing Director of Prescali Environmental Consultants (Pty) Ltd, have been involved in a range of environmental related studies for the past 17 years with specialisation in environmental project management and environmental auditing. I have obtained relevant experience in environmental management and also have extensive experience in surface and groundwater quality, especially water quality management, water quality monitoring and water quality assessment as obtained at the Department of Water Affairs and Forestry. I was also responsible for the groundwater section of the implementation of the DANIDA Project related to Integrated Water Resource Management within various parts of the country.

Since 2004 I have been in private consulting where my main fields of professional activity are in environmental management related projects and auditing (ISO 14001). These types of projects include water management plans, water use license applications, due diligence assessments, basic assessments, environmental impact assessments, environmental management plans, performance assessment, financial provisioning and auditing. I have managed large multi-disciplinary teams and delivered the required documentation to national standards. I also have knowledge of legal terminology, legal documents, legal processes and legal strategy relating to the various types of environmental applications that are made to the various Government Departments.

In addition, I have completed the necessary training with regards to ISO9001:2015 and ISO45001:2018 and are looking forward to implement and conduct integrated internal and external audits within the near future on company's Safety, Health, Environmental and Quality Management Systems.

Having completed and obtained the required SETA courses (US 115753 & US117871) in order to be able to conduct and assess training, assistance has been provided to a number of third party companies in providing training related to ISO14001:2004 and ISO14001:2015 as well as training with regards to Introduction to Environmental Management as well as more specific detailed environmental management training, i.e. Environmental Management Legislation of South Africa.

I am self-disciplined and have a desire to make a difference, be it working in a team or as an individual. I thrive on hard work being my motivator to meet my own high standards. I believe that confidence can be acquired through skill, experience and positive affirmation. I believe my integrity helps to build trust, allows me to influence others, sets and to maintain high standards and also builds my reputation as one who can be relied on. I believe that to make true progress towards a more sustainable future, society needs to be as open, honest and transparent as possible.

Having been appointed as Managing Director of Prescali Environmental Consultants (Pty) Ltd since 2007 have provided me with the necessary leadership skills, the ability to cope with long hours and hard work, and the inner

resources to deal with stress and risk-taking. They also include the ability to build and manage our team of consultants in order to provide a cost-effective service to our clients and promote a realistic strategy with measurable targets.

Project Details

EIA/EMP Reports

During the compilation of Environmental Impact Assessment and related Management Programmes for mines as part of the requirements of the Mineral and Petroleum Resources Development Act of 2002, the specialist investigations being conducted by various specialists needs to be interpreted in order to provide the correct relevant information through to the relevant authorities in order to make an informed decision. The following Environmental Impact Assessment and related Management Programmes have been developed:

- International Ferro Metals (SA) (Pty) Ltd (November 2009),
- Sky Chrome Mining (November 2010),
- Pan Palladium: Volspruit Project (April 2012),
- Chromex Mining: Mecklenburg Operations (2013).
- Ironveld: Hacra Iron Mine (November 2013)
- Ironveld: Hacra Platinum Mine (November 2013)
- Memor Mining: Langpan (May 2014)
- Tjate Platinum Mining (September 2014)
- Pan Palladium: Iron Mine (October 2014)
- Pan Palladium: Platinum Mine (October 2014)
- Destiny Spring Investments: Vlakpoort (November 2014)
- Grasvally Chrome Mine (February 2016)
- Illitha Mining: Stellite Chrome Mine (June 2017)
- Corobrik: Driefontein expansion (June 2018)
- Galileo Resources: Glenover Phosphate Mine
- Umnotho wSizwe Resources: Smokey Hill
- Sail Group: Black Chrome Mine

The following Environmental Impact Assessment and related Management Plans have been developed in terms of the National Environmental Management Waste Act of 2008 as well as the National Environmental Management Act of 1997:

- North West Recycling (June 2009);
- Sylvania: Lannex Tailings Dam (July 2010);
- International Ferro Metals (SA) (October 2012);
- Phoenix Platinum: Buffelsfontein Tailings Dam (April 2013);
- Ironveld: Altona Smelter (March 2015).

WUL & IWWMPs

As part of being in the consultancy industry, water assessments as part of applications for water use licences for a number of companies were conducted, which includes:

- Aquarius Platinum: Marikana Platinum Mine (June 2004),
- Richard Bay Minerals: Zulti South (February 2005),
- Samancor Western Chrome Mines: Mooinooi Section (February 2005),
- Wakefield Investments: Middelburg Townlands Colliery (March 2005),
- Samancor Western Chrome Mines: Millsell Section (March 2005),
- Leeuwfontein Myne: Bankfontein Section (May 2005),
- Simmer and Jack Mines Limited: Transvaal Gold Mining Estates Limited (July 2005),
- Anglo Operation Limited: CBM Project (August 2005),
- Two Rivers Platinum (August 2005),
- Leeuwfontein Myne: Lakeside and Leeuwfontein Collieries (September 2005),
- Silicon Smelters (Pty) Ltd (November 2005),
- Aflase Gold and Uranium Resources: Aflase Uranium Mine (January 2006),
- Zincor a Division of Kumba Base Metals Limited (January 2006),
- Wonderstone Limited (January 2006),

- Assmang: BKM Mine (February 2006),
- SkyChrome Mining (August 2012),
- International Ferro Metals (SA) (Pty) Ltd (December 2011),
- Apollo Bricks: Olifantsfontein (February 2009),
- Sylvania: Lannex Tailings Dam (July 2011),
- Sky Chrome Mining (July 2012),
- International Ferro Metals (SA) (Pty) Ltd – Amendment (July 2013),
- Chromex Mining: Mecklenburg (May 2013),
- Hacra Mining (December 2015),
- Grasvally Chrome Mine (March 2016),
- Pan Palladium Mining (April 2016),
- Phoenix Platinum (September 2016),
- De Beers Consolidated Mines: Venetia Mine (May 2018),
- Afarak: Vlakpoort,
- Galileo Resources: Glenover Phosphate Mine,
- Ironveld: Altona Smelter,
- Sail Group: Black Chrome Mine,
- Rooderand Chrome Mine.

Performance Assessments/Audits

As part of the requirements of the Mineral and Petroleum Resources Development Act of 2002, it is required by every mine to conduct an environmental performance assessment in order to ensure that the mine is complying with the relevant legislation as well as conforming to its approved Environmental Management Programme Report. The following assessments have been conducted at the following mines as per the requirements of the Mineral and Petroleum Resources Development Act of 2002:

- Anglo Operation Limited: CBM Project (November 2004, October 2005),
- International Ferro Metals (SA) (Pty) Ltd (December 2008 - 2012),
- Memor Mining: Langpan Section (March 2011 - 2013),
- Siphete Coal: Coastal Fuels Droogvalei and Paardeplaats Collieries (April 2011, February 2012)
- Sylvania Operations: Mooinooi. Millsell, Steelpoort, Doornbosch, Lannex (April 2011)
- Sky Chrome Mining (April 2012),
- Destiny Spring Investments: Vlakpoort Section (September 2012),
- Ilitha Mining: Stellite Chrome Mine (March 2014), and
- Pan Palladium: Zoetveld & Grasvally (April 2014)
- Platcro Minerals: Chemstof (May 2017)
- Grasvally Chrome Mine (July 2018)
- Matutu Clay Mine (December 2018)
- Phokathaba Platinum (Pty) Ltd (December 2018)
- Sefateng Chrome Mine (December 2018)

A number of Environmental Performance Audit Reports have been conducted at the following industries as per the requirements of their Environmental Authorisations:

- Vus'ithemba Project Solutions cc: Piggery (November 2012, September 2013 and November 2015)

A number of Water Use Licence (WUL) audits have been conducted at the following mines as per the requirements of their WUL. These audits are conducted in terms of the approved WUL issued by the Department of Water Affairs in order to ensure that the requirements within the WUL as well as the National Water Act of 1998 are met.

- Apollo Bricks: Olifantsfontein (September 2011, August 2012, August 2013, October 2014, October 2015, October 2016, October 2017, October 2018),
- International Ferro Metals (SA): Mooinooi (June 2012, August 2013, August 2014),
- Andalusite Resources: Thabazimbi (June 2011, September 2011, December 2011, January 2013, November 2014, December 2015, December 2016, December 2017, December 2018),
- Omnia: Sasolburg (September 2013, November 2014),
- Omnia: Rustenburg (September 2013, November 2014),
- Stellite Chrome Mine: Rustenburg (May 2014),
- Coastal Fuels (April 2015, November 2017),
- Vus'ithemba Project Solutions cc: Piggery (September 2013, November 2015)

- Phoenix Platinum: Lesedi (November 2017, October 2018)
- Grasvally Chrome Mine (March 2018)
- Kingdom Development Company (August 2018)
- Chevron South Africa (Pty) Ltd: Milly's Star Stop (December 2018)
- Phokathaba Platinum (Pty) Ltd (July 2018)
- Bauba A Hlabirwa Mining Investments (October 2018)
- Sefateng Chrome Mine (December 2018)

In addition, a number of Waste Licence audits have been conducted at the following sewage treatment facilities as per the requirements of their Waste Licence in terms of the National Environmental Management Waste Act. These audits are conducted in terms of the approved Waste Licences issued by the Department of Environmental Affairs in order to ensure that the requirements within the Waste Licence as well as the National Environmental Management Waste Act of 2008 are met.

- Department of Public Works: Ncome Prison (March 2013),
- Department of Public Works: Ekuseni Prison (March 2013).

Short Resumé

Gregory Netshilindi

Personal Data

Identity Number 901218 5607 088
Sex Male
Nationality South African
Language Skills English & Tshivenda (speak, read and write), Zulu, Tswana, Xhosa (speak)

Educational Qualifications

Name of Institution	Qualifications Obtained	Dates Attended
University of Cape Town	B.Sc Geology Environmental & Geographical Sciences	2008-2011
University of Cape Town	B.Sc (Hons) Geology	2013-2013

Professional Registrations

Registration/Licensing Body	Type of Registration	Dates Obtained
The South African Council for Natural Scientific Professions	Candidate Natural Scientist: 116772	January 2017
Geological Society of South Africa	Member Membership number-969324	May 2015

Short Resumé

From March 2012 until January 2013 I worked as an Environmental Control Officer at Kharifhate Consortium. From September 2014 until February 2018 I worked as an Environmental Geologist for Minmet Services where I was assisting them with various prospecting right, mining rights and all related amendments applications. From February 2018 until January 2019 I worked for Tshikovha Green and Climate Change Advocates where I was assisting them with various Environmental Authorisation applications. As of February 2019, I became full time employed by Prescali Environmental Consultants. A list of all environmental Authorisation and audit related projects that I have worked on is provided in the attached Table.

My environmental background includes being involved as an environmental control officer (ECO). From March 2012 -January 2013 I was involved in RDP housing projects as part of a professional resource team. My duties included conducting daily inspection of the construction site, compiling daily incidents report (when necessary), compiling weekly and monthly reports to be submitted to the Department of Housing. My environmental Background includes being involved as a Geologist/Environmental Assessment Practitioner. From September 2014- February 2018 I was involved in various prospecting, mining rights and various amendments applications. The applications required drafting and compiling Basic Assessment and Scoping & EIA Reports. In addition, I have graduated in the Geology field, I have great understanding of the mining environment and I have conducted successful drilling and bulk sampling (mining) programmes. From February 2018-January 2019 I have been involved in Environmental Authorisation applications ranging from construction of stadium to prospecting right applications. I am currently doing extensive work with the mining and associated industry and have gained valuable experience in this field and would thus be an asset to any team working on environmental authorisations and assessments.

My preferred area of work is groundwater assessments which I intend to further my qualifications in this field to complement my understanding of the earth sciences.

Project Details

EIA/EMP Reports

Project	Outline	Organisation	Type
2012 Environmental Control	Construction of RDP houses in Hammanskraal and Soshanguve	Department of Housing- Gauteng	ECO
2014 EIA/EMP	Section 102 Application and amendment of mining right application for Bentonite and clay. Compiled an amendment of Scoping and EIA report as part of the S102 Amendments.	Lengana Health SA	EIA- Amendment of Scoping & EIA
2015 EIA/EMP	Mining Right application for Iron Ore and Gold. Compiled Scoping & EIA report as part of the mining right application	Lengana Ventures	EIA- Scoping & EIA
2016 EIA/EMP	Coal prospecting right application. Compiled the Basic Assessment Report as part of the Prospecting right application.	Mystic Blue	EIA-Basic Assessment
2017- Exploration and bulk sampling	Bentonite Drilling and bulk sampling project. Compiled resource estimation reports and conducted the resource modelling exercise.	Lengana Health SA	Exploration and Mining
2018 EIA/EMP	Prospecting right application for Limestone and Phosphate. Compiled the Basic Assessment Report and conducted the public participation process	Acutupax (Pty) Ltd	EIA Basic Assessment
2018 WULA	Water use license audit and surface water assessment.	Manngwe Mining	Audit
2018 EIA	Mbulaheni Mulaudzi Sports Complex Basic Assessment. Compiled the Basic Assessment Report and conducted the public participation process.	Mavu Sports development	EIA

2019 WULA	Mine monthly surface water monitoring	Umnoth weSizwe (Black Chrome Mine)	Audit
2019 EIA	EIA EMPR Performance assessment audit for Smokey Hills Platinum.	Phokathaba Platinum Mine	Audit
2019 EIA	Smokey Hills Scoping and EIA report for the opencast extension. In addition, a closure and rehabilitation report was compiled.	Phokathaba Platinum Mine	EIA- Scoping & EIA
2019 WULA	Water use License audit report for Apollo Bricks	Brakkefontein Clay Products (Pty) Ltd	WUL Audit
2019 WULA	Water use License audit report for Apollo Bricks	Sylvania-Phoenix	WUL Audit
2019- WULA	Water Use License Application process including compilation of IWMMP	Destiny Spring Investment	Water Use License Application.



Curriculum vitae

Christina Petronella
Erasmus
(Petro)



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Christina Petronella Erasmus (Petro)

Objectives

- Long term: Work in any or combinations of the following areas: auditing, research, environment and education. Continuously increasing and updating my knowledge relating to the above aspects and sharing the experience that I have with interested parties.
- Life: To be recognised as a world class leader in the environmental and auditing field.

Contact details

- Email: petro@prescali.co.za
- Snail mail: P.O. Box 2544, Montana Park, 0159
- Phone (cell): + (027) 072 237 7305

Personal Information

From May 2008 till January 2018 I have worked as an Environmental Consultant at the firm M2 Environmental Connections (MENCO). During this time, I was assisting Prescali Environmental Consultants with various projects focusing on auditing, environmental impact assessments, environmental management plans, water use licence applications and related aspects. As of February 2018, I am full time employed by Prescali. A list of all projects that I have worked on since 2008 is provided in the attached Table. Detailed information on auditing and training as outlined in the project list is provided as separate tables.

My environmental background includes being involved in an Environmental field either as a student or in a working environment. From March 2006 – April 2008 I was involved in Water Management with the Department of Water Affairs and Forestry (DWAF, pre-2009). My duties included evaluation (evaluation, commenting and recommendation) of various regulatory required documents (such as EMPR's, Water Licence Applications and EIA's), as well as the compilation of these documents. This work has been done for waste water management, mining and industrial sectors, as well as for private developers and business. In addition, as I have graduated in an Environmental Field (Zoology, specifically marine pollution) I have a great understanding of the water related environmental systems.

I am doing extensive work with the mining and associated industry and have gained valuable experience in this field and would thus be an asset on any team working on environmental authorisations and assessments. In addition to the above, I have experience in an agricultural (game) field, for work that I did for the Terrestrial Ecological Research Unit at the then University of Port Elizabeth. Another speciality area is waste management and I have drafted waste management reports, classification reports as well sewage management reports.

I truly enjoy conducting surface water assessment including the description of the surface water baseline environment due to the complex nature and interaction of these systems with the surrounding environment. Since I passed the ISO14001:2015 Lead Auditor Exam through PECB in 2018, I have started to accumulate hours auditing this Management System and found it a very rewarding field as I can implement all the experience that I have gained throughout the years in determining conformance to the system. As a certified PECB Trainer for ISO14001:2015 I have also been approached to conduct training on the ISO14001:2015 standard and on Environmental Law (South Africa) providing me the way to share the experience that I have with other parties and thus fulfilling one of my goals.

I also take pride in the fact that I am registered with the SACNASP as an Ecological and Environmental Scientist and that I am a Member of the Water Institute of South Africa.

Personal Data



Identity Number 740502 0050 088
 Date of Birth 2 May 1974
 Sex Female
 Driver's license Code 08
 Nationality South African
 Home Language Afrikaans (speak, read and write) Other Languages: English (speak, read and write)

Work Experience

A full list of projects are attached at the end of this CV.

2010 - Current PRESCALI PRETORIA

Duties include compiling technical documentation (EMPR / EMP, Water Balance, Surface Impact Report, WULA, IWRMP/IWWMP), Sampling (Harties Metsi A Me project), Public Participation, Administrative duties (Invoicing; Quotations) & Mentoring new employees.

Client list include:

<i>Phoenix Platinum (Pty) Ltd</i>	<i>Hacra Mining and Exploration Company (Pty) Ltd</i>
<i>Pan Palladium South Africa (Pty) Ltd</i>	<i>Sylvania (Pty) Ltd</i>
<i>Apollo Brick (Pty) Ltd</i>	<i>Illita Mining (Pty) Ltd</i>
<i>Grasvally Chrome Mine (Pty) Ltd</i>	<i>Chromex Mining (Pty) Ltd</i>
<i>Gudani Consulting (Pty) Ltd</i>	<i>Red Kite Environmental Solutions (Pty) Ltd</i>
<i>Sky Chrome Mining (Pty) Ltd</i>	<i>International Ferro Metals (South Africa) (Pty) Ltd</i>
<i>Corobrik (Pty) Ltd</i>	<i>Glenover Phosphate</i>

Details on the Clients and their respective industries are attached at the end of this CV.

2008 - 2018 MENC0 PRETORIA

Duties include compiling technical documentation (EMPR / EMP, Water Balance, Surface Impact Report, WULA, IWRMP/IWWMP), Sampling (Harties Metsi A Me project), Public Participation, Administrative duties (Invoicing; Quotations) & Mentoring new employees.

Client list include:

<i>Vesuvius South Africa (Pty) Ltd</i>	<i>Richmond Mining and Exploration</i>
<i>Samancor Western Chrome Mines</i>	<i>Virtual Consulting Engineers</i>
<i>Apollo Brick (Pty) Ltd</i>	<i>Hoyohoyo (Pty) Ltd</i>
<i>Ruighoek Chrome Mine</i>	<i>Andalusite Resources (Pty) Ltd</i>
<i>MTC Minerals</i>	<i>City of Johannesburg</i>
<i>Samancor Eastern Chrome Mines</i>	<i>Coastal Fuels (Pty) Ltd</i>

Details on the Clients and their respective industries are attached at the end of this CV.

2007- April 2008 DWAF1 HARTBESPOORT

Senior Water Pollution Control Officer

Knowledge of water policies and strategies relating to Integrated Water Resource Management was a requirement and I had to ensure that all water users complied with legal and technical principles. Other duties included Integrated Water Use Licenses and in providing specialist input into waste disposal facilities applications. In addition, I was involved in facilitating integrated monitoring programmes in terms of water quality, microbial, biology and other aspects of river health as well as general administrative duties. I was also the Health and Safety officer for our office.

2006(MARCH – DES) DWAF EAST LONDON

Water Pollution Control Officer

Duties included site inspections of waste water treatment plant, potable water treatment plants and other businesses and mines that could negative impact on water quality for compliance with the National Water Act, 1998 (Act 36 of 1998). Registration and licensing of water uses, taking of water samples and interpretation of

1 Department of Water Affairs and Forestry



analyses results, investigation of pollution incidents. I also assisted with SASS monitoring for the regional River Health Programme

Other duties included correspondence with clients, following up on complaints, attending committees and awareness creation among stakeholders.

2005 – 2006

NICO ROUX GAME ENTERPRISES RUSTENBURG

General Administration clerk.

Responsible for general administration which included obtaining permits for import and export of game (both internationally and provincially). Other duties included helping to organise game auctions, web site updating and payroll administration.

2004

UPE2

PORT ELIZABETH

Laboratory Assistant UPE Advancement Program Biology laboratory

Semester 1 and 2: helping to set up a new biology laboratory. Duties included making microscope slides, and setting up practical equipment.

2004 (Feb – Jun)

Research Assistant, Terrestrial Ecology Research Unit, Zoology Department

Contacting game-farmers and game farm managers to update an existing database, as well as generating information on the information needs and sources of information utilised by game farmers and game farms managers. This formed part of the STEP (subtropical thicket ecosystem planning) project.

2004 (Jul – Des)

Contract Lecturer for the UPE Advancement Program & the Department of Biochemistry and Physiology

- UPE Advancement Programme: Lecturing the full second semester course on biology consisting of animal classification, human and animal physiology and ecology.
- Department of Biochemistry and Physiology: Lecturing the second part of BWV203 (The human nervous systems) and the whole of BWV204 (The human brain and spinal cord) for nursing students.

For both of these I was responsible for setting up November exams papers and January Sick exam papers as well as grading the answer sheets.

2001 – 2003

Practical Assistant UPE Advancement Program

- Semester 1: preparation and presentation of practical experiments. Assistant lecturer.
- Semester 2: presentation of practical experiments and tutorials.
- Zoology 240 (Ecotoxicology) lecturer. Lectured the second-year course in ecotoxicology consisting of 10 lectures and 2 practical sessions. Duties also included setting up and marking examination papers as well as updating the lecture notes.

2001

Supplemental Instruction (SI)

- Assistant coordinator SI (Sciences) and Editor for The Ripple (SI UPE newsletter).
- Committee member Zoological Society South Africa Conference UPE. Portfolio: transport and accommodation

2000

Supplemental Instruction

SI leader: first year zoology students.

1998 – 2000

Zoology Practical Demonstrator

2 University of Port Elizabeth: From January 2005 The following institutions amalgamated in January 2005 to form the Nelson Mandela Metropolitan University (NMMU): UPE, Vista PE and PE Technicon



- 1998: Practical demonstrator for first year zoology students. Modules covered: general taxonomy (invertebrates) and an introduction to histology.
- 1999 – 2000: Practical demonstrator for second year zoology students. Modules covered: statistics, physiology, vertebrate anatomy, histology.

1996 **PU FOR CHE3** **POTCHEFSTROOM**
Zoology Practical Demonstrator
 Practical demonstrator for first year zoology students. Some of the modules covered during the year included: general taxonomy (vertebrates and invertebrates), evolution.

Education
1993 – 1995 **PU FOR CHE** **POTCHEFSTROOM**
Baccalareus scientiae.
 Graduated with third year subjects Zoology and Biochemistry.

1996 **PU FOR CHE** **POTCHEFSTROOM**
Baccalareus scientiae (honoris) in Zoology. Received cum laude.
 During this year various disciplines within Zoology were covered, such as Parasitology, Genetics, Ecology, Histology, Computers, Biostatistics, Environmental Impact Studies and many more.
 The project was histology based and increased my knowledge on how to make microscope slides and how to use immunocytochemistry to mark relevant tissue areas. The results from my study were published in the Onderstepoort Journal of Veterinary Science.

1998 - 1999 **UPE** **PORT ELIZABETH**
Magister Scientiae in Zoology, Received cum laude.
 Supervisor: Dr. G. J. Rossouw.
 The project was histology based and focused on the retinal cells of sharks. As a result, my knowledge in the field of histology increased as I learned how to use a transmission electron microscope and a scanning electron microscope. Computer statistical skills also improved due to the number of statistical tests that had to be completed.

2000 – 2003 **UPE** **PORT ELIZABETH**
Philosophiae Doctorae in Zoology.
 Promoter: Dr. G.J. Rossouw; Co-promoter: Prof. D. Baird.
 This study focused on ecotoxicology. The concentration of 10 different metals in various tissue types of sharks that were caught along the south eastern coast of South Africa were investigated. During the course of this study I became familiar with digestion of tissue samples using acid, and working with an ICP-MS. Part of the study focussed on the metallothioneins (a metal binding protein) in the liver of sharks. This part of the study taught me how to isolate different proteins (using a hydrophobic column), work with a spectrophotometer and I also become familiar with gel-electrophoresis (SDS-PAGE gels). Once again, I increased my statistical background due to the numerous comparisons and tests that had to be completed on the relevant data sets.

Short Courses / Workshops / Training Seminars

Year	Course	Presented by and Location
1999	Practical Demonstrator Training Workshop	UPE: Department of Zoology
2000	Supplemental Instruction / Leader Training Workshop	UPE: National SI Centre
2000	Supplemental Instruction Supervisors / Leader Training Workshop	UPE: National SI Centre
2001	Ifaw Shark Conservation Workshop	IFAW: Cape Town
2006	Estuary Management	WRC, Buffalo City, U-KZN: East London
2006	Policy and Methods of Disposing Abattoir Waste, Hygiene	Department of Agriculture:

³ Potchefstroom University for Christian Higher Education, now the North-West University.



Year	Course	Presented by and Location
	in Abattoir Cutting Plants, Hygiene Management System, Animal Disease Reporting	Amathole DM: East London
2006	Environmental Impact Assessment: The Nema Regulations – A Practical Approach	CEM: Potchefstroom
2007	Water Quality Management Orientation Course	DWAF: Roodeplaat
2007	Improving Legal and Regulatory Efficiency for Water Resource Management in Southern Africa	IDLO: Pretoria
2007	Environmental Law for Environmental Managers	CEM: Potchefstroom
2010	Flood hydrology and urban Runoff modelling	University of Pretoria: Pretoria
2013	Applied Fluvial Geomorphology	Wildland Hydrology: Fayetteville, AR, USA
2014	IWRM, The NWA, and Water Use Authorisations, focussing on Water Use License Applications – Procedures, Guidelines, IWWMP's and Monitoring	Carin Bosman, Pretoria
2014	Environmental Impact Assessment (EIA) 2014 Legal Regime Workshop	Imbewu: Cape Town
2015	River Morphology and Applications	Wildland Hydrology, Bend, OR, USA
2015	WRSM2000(Pitman)/WR2012 Water Resources Two Day Course	Royal Haskoning DHV, Pretoria
2016	Financial Provision Regulations and mine closure requirements legal training workshop	IMBEWU, Johannesburg
2017	ISO 14001: 2015 Environmental Management Systems – Introductory 3-day course	EOH, Pretoria
2017	Southern African Geomorphology Pure and Applied Conference	University of Swaziland
2017	ISO 14001: 2015 Lead Auditor course	EOH Pretoria (Self-study)
2018	Environmental Law Update Workshop	IMBEWU, Johannesburg

Professional Registrations

- WISA: Member
- SACNASP: Ecological Science
- SACNASP: Environmental Science
- PECB: Lead Auditor ISO14001
- PECB: Certified Trainer

Peer Reviewed Publications

C.P. Erasmus & G. Van Aswegen. 1997. The endocrine pancreas of the cape fur seal, *Arctocephalus pusillus* (Schreber, 1776): an immunocytochemical study. *Onderstepoort Journal of Veterinary Research*, 64: 239 – 242.

Dissertations / Thesis / Reports

- C.P. Erasmus. 2000. The retinal cells of different elasmobranch species. M.Sc. Dissertation. University of Port Elizabeth, Port Elizabeth, South Africa.
- C.P. Erasmus. 2004. The concentration of ten metals in the tissues of shark species *Squalus megalops* and *Mustelus mustelus* (Chondrichthyes) occurring along the south-eastern coast of South Africa. Ph.D Thesis. University of Port Elizabeth, Port Elizabeth, South Africa. (Supervisors: Dr. G.J. Rossouw & Prof. D. Baird)
- P. Erasmus & G. Kerley. 2004. Ecological information needs of game farmers and land managers to sustainably manage subtropical thicket. TERU Report 49. 33pp.



Conference Proceedings

- C.P. Erasmus & G. Rossouw. 1998. The photoreceptors of different elasmobranch species in relation to their habitat. Electron microscopy – paper presented at IECM 14, symposium II, Volume IV, 1998: 81 – 82. (ICEM, Cancun, Mexico, 31 August – 4 September 1998).
- C.P. Erasmus & G.J. Rossouw. 1999. The rods and cones of some elasmobranchs. Microscopy Society Of South Africa - Proceedings, 29: 96 (Sams, Bloemfontein, December 1999).
- C.P. Erasmus, D. Baird & G.J. Rossouw. 2003. Metal concentration in the muscle of *Mustelus mustelus* (Linnaeus 1758) caught off St. Francis Bay. Joint conference of SASAQS & ZSSA, Cape Town 30 June – 4 July 2003.
- C.P. Erasmus, C.L. Frost & D. Baird. 2003. Metallothioneins in the liver of dogfish (*Squalus megalops*) caught off Algoa Bay, South Africa. SASBMB 18th Congress, Pretoria, 6 – 9 July 2003.

Popular Articles

- P. Erasmus. 2004. Changing land use trends in the subtropical thicket (valley bushveld) biome: feedback and the way forward. ECGMA Pelea news. March 2004: 35 – 36.
- P. Erasmus & G. Kerley. 2004. Spesifieke informasie behoeftes van wildplaas eienaars en –bestuurders in die Oos-Kaap. Game & Hunt (Wild en Jag). October/Okttober 2004 10: 47 – 49.

Interests

- Colouring
- Reading and movies
- Hand / Needlework
- River morphology

References

Mr. Morné de Jager (M2 Environmental Connections (Pty) Ltd)
Phone: +27 (012) 004 0362
Email: morne@menco.co.za

Ms. Elaine van der Linde (Prescali Environmental Consultants (Pty) Ltd)
Phone: +27 (082) 853 4170
Email: elaine@prescali.co.za

Projects outline (2008 to Current)

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
2013: EIA/EMP	Doornbosch/Steelpoort: Drafted the scoping and EIA/EMP documents for the amendment of the existing mining rights.	Samancor Eastern Chrome Mines	Doornbosch/Steelpoort	EIA/EMP	M	
2013: IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Samancor Eastern Chrome Mines	Lwala	IWWMP	M	
2013: IWWMP	Water use licence project Management	Samancor Eastern Chrome Mines	Lwala	Project Management	M	
2013: Surface water	Conducted a surface water assessment and impact assessment for the proposed mine.	Samancor Eastern Chrome Mines	Lwala	Surface water	M	
2014: IWRMP update	Updated the existing IWWMP and water use licence application, this included drafting water balances.	Samancor Western Chrome Mines	Millsell/Waterkloof	IWWMP	M	
2014: IWRMP update	Updated the existing IWWMP and water use licence application, this included drafting water balances.	Samancor Western Chrome Mines	Mooinooi	IWWMP	M	
2014: Water Balance	Updated the existing IWWMP and water use licence application, this included drafting water balances.	Samancor Western Chrome Mines	Millsell/Waterkloof	Water balance	M	
2014: Water Balance	Updated the existing IWWMP and water use licence application, this included drafting water balances.	Samancor Western Chrome Mines	Mooinooi	Water balance	M	
2015: Alien Invasive studies	Reviewed and assessed reports on alien invasive plant species and management plans: Millsell/Waterkloof, Mooinooi, Elandsdrift, Buffelsfontein East and West	Samancor Western Chrome Mines	Buffelsfontein East	Review	M	
2015: Alien Invasive studies	Reviewed and assessed reports on alien invasive plant species and management plans: Millsell/Waterkloof, Mooinooi, Elandsdrift, Buffelsfontein East and West	Samancor Western Chrome Mines	Buffelsfontein West	Review	M	
2015: Alien Invasive studies	Reviewed and assessed reports on alien invasive plant species and management plans: Millsell/Waterkloof, Mooinooi, Elandsdrift, Buffelsfontein East and West	Samancor Western Chrome Mines	Elandsdrift	Review	M	
2015: Alien Invasive studies	Reviewed and assessed reports on alien invasive plant species and management plans: Millsell/Waterkloof, Mooinooi, Elandsdrift, Buffelsfontein East and West	Samancor Western Chrome Mines	Millsell/Waterkloof	Review	M	
2015: Alien Invasive studies	Reviewed and assessed reports on alien invasive plant species and management plans: Millsell/Waterkloof, Mooinooi, Elandsdrift, Buffelsfontein East and West	Samancor Western Chrome Mines	Mooinooi	Review	M	
2015: Fauna Assessment	Reviewed and assessed the fauna assessment report.	Sylvania	Grasvally Chrome mine	Review	P	
2015: Flora Assessment	Reviewed and assessed the flora assessment report.	Sylvania	Grasvally Chrome mine	Review	P	
2015: IWWMP	Reviewed the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Sylvania	Volspruit Platinum Mine	Review	P	
2015: Surface water assessment	Assisted with the compilation of a surface water assessment of the rivers that could be impacted by the existing activities of Doornbosch/Steelpoort Section	Samancor Eastern Chrome Mines	Doornbosch/Steelpoort	Surface water	M	
2015: Surface water assessment	Compiled a surface water assessment of the rivers that could be impacted by the existing activities of Lannex Section	Samancor Eastern Chrome Mines	Lannex	Surface water	M	
2015: Wetland Rehabilitation and Management plan	Compiled the Wetland Rehabilitation and management Plan for the Hacra PGE mining project	Hacra Mining and Exploration Company (Pty) Ltd	PGE and PGM Mine	RSIP	P	
2016: Water balance	Compiled the water balance for the Magnetite mining project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	Water Balance	P	
2016: Water balance	Compiled the Water balance for the PGE mining project	Hacra Mining and Exploration Company (Pty) Ltd	PGE and PGM Mine	Water Balance	P	
2017: Rehabilitation Strategy and Implementation Plan	Drafted the RSIP for Samancor Buffelsfontein East Section	Samancor Western Chrome Mines	Buffelsfontein East	RSIP	M	
2017: Water Balance	Drafted the 2016/2017 water balance as well as the WCDMP for Samancor Buffelsfontein East Section	Samancor Western Chrome Mines	Buffelsfontein East	Water balance	M	
2017: Water conservation and Demand Management plan	Drafted the 2016/2017 water balance as well as the WCDMP for Samancor Buffelsfontein East Section	Samancor Western Chrome Mines	Buffelsfontein East	WCDMP	M	
Aquatic deliniation report	Review of the aquatic delineation study	Walt Landgoed (Pty) Ltd (REC Services)	Biesjeskraal	Review	P	24 May 2017
Avifauna	Review of the Avifauna report for the WPB Colliery	William Patrick Bower	Groenvlei	Reviewed	M	22 July 2011
Basic Assessment	Conducted and compiled the Basic Assessment for the upgrade of the Waste water treatment works at the Nerston Port of Entry.	Virtual Consulting Engineers	Nerston port of entry	Basic Assessment	M	03 August 2009
Basic Assessment	Review of the BAR for the implementation of WWTW	Chevron SA (Pty) Ltd	Millies	Review	M	15 February 2017
Basic Assessment	Management of the BA Process for the proposed new kilns	Corobrik	Driefontein	Project Management	P	01 February 2018

Project	Outline	Company	Section	Type	Menco/ Prescali	Completion date
Basic Assessment	Review of documentation required for the Environmental Authorisation for the Corobrik Driefontein New Kiln Expansion project	Corobrik	Driefontein	Review	P	01 February 2018
Care and Maintenance	Reviewed the care and maintenance plan for Droogvallei	Coastal Fuels (Pty) Ltd	Droogvallei	Review	M	03 March 2014
Closure documentation	Compilation of closure documentation for Paardeplaats	Coastal Fuels (Pty) Ltd	Paardeplaats	Closure application	M	09 March 2012
Closure Plan	Compilation of a closure plan for the Paardeplaats Section	Coastal Fuels (Pty) Ltd	Paardeplaats	Closure plan	M	01 March 2012
Closure quantum	Calculated the closure quantum for the Elandsdrift Section as per the DMR guideline.	Samancor Western Chrome Mines	Buffelsfontein	Closure quantum	M	16 November 2011
Closure quantum	Calculated the closure quantum for the Millsell/Waterkloof Sections as per the DMR guideline.	Samancor Western Chrome Mines	Elandsdrift	Closure quantum	M	16 November 2011
Closure quantum	Calculated the closure quantum for the Mooinooi Sections as per the DMR guideline.	Samancor Western Chrome Mines	Millsell/Waterkloof	Closure quantum	M	16 November 2011
Closure quantum	Calculated the closure quantum for the Mooinooi, Millsell/Waterkloof, Elandsdrift and Buffelsfontein Sections as per the DMR guideline.	Samancor Western Chrome Mines	Mooinooi	Closure quantum	M	16 November 2011
Closure quantum	Calculated the closure quantum as per the DMR guideline.	Porta Plant	Middelburg	Closure quantum	M	31 January 2012
Closure quantum and financial liability	Annual update of the financial liabilities for all the Sylvania sites	Sylvania	Various	Closure quantum	P	01 May 2018
Closure quantum and financial liability	Annual update of the financial liabilities for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	Closure quantum	P	01 July 2018
Due Dilligence and Liabiliyt	Conducted a due diligence for the Sail group on Smokey Hills Platinum Mine	Sail group	Smokey Hill Platinum Mine	Due Diligence	P	13 April 2017
Due Dilligence and Liabiliyt	Conducted a due diligence for the Sail group on Black Chrome Mine	Sail group	Mooihoek (Black) Chrome Mine	Due Diligence	P	19 May 2017
Due Dilligence and Liabiliyt	Conducted an Environmental Due diligence and Liability at portion 155 of the farm Elandskraal 469 JQ	Phoenix Platinum	Elandskraal / Minco	Due Diligence	P	01 March 2018
ECO	Review of ECO reports for storm water implementation construction activities	Ndodana Consulting Engineers	Oriel	Review	M	2013/06/11 2013/07/31 2013/08/31
EIA/EMP	Compiled the EIA and EMP for the mine as part of the Mining right conversion for the Buffelsfontein Sections	Samancor Western Chrome Mines	Buffelsfontein	EIA/EMP	M	05 May 2009
EIA/EMP	Compiled the EIA and EMP for the mine as part of the Mining right conversion for the Mooinooi Sections	Samancor Western Chrome Mines	Mooinooi	EIA/EMP	M	05 May 2009
EIA/EMP	Compiled the EIA and EMP for the mine as part of the Mining right conversion, also compiled the EIA and EMP for new mining right on additional properties. Portion 7 and 10 of Elandsfontein	Apollo Brick (Pty) Ltd	Elandsfontein	EIA/EMP	P	20 May 2009
EIA/EMP	Compiled the EIA and EMP for the mine as part of the Mining right conversion for the Elandsdrift Section	Samancor Western Chrome Mines	Elandsfontein	EIA/EMP	M	26 November 2009
EIA/EMP	Compiled an EIA/EMP for the operations	Hoyohoyo Mining (Pty) Ltd	Klipfontein Colliery	EIA/EMP	M	22 February 2011
EIA/EMP	Compiled the Scoping and EIA/EMP Documents for the waste act application to re-use slag.	IFMSA	Buffelsfontein	Waste Management	P	19 May 2011
EIA/EMP	Compilation of an EIA/EMP for proposed coal mining activities	William Patrick Bower	Groenvlei	EIA/EMP	M	26 July 2011
EIA/EMP	Compiled the EIA / EMP report for the NEMA applications.	Virtual Consulting Engineers	Ncome Prison (DPW: Shawshank)	EIA/EMP	M	24 November 2011
EIA/EMP	Drafted the EIA and EMP for the EMPr amendment as part of the Mining right conversion process.	Coastal Fuels (Pty) Ltd	Droogvallei	EIA/EMP	M	13 March 2012
EIA/EMP	Reviewed the EIA/EMP used in the mining right application	Samancor Eastern Chrome Mines	Jagdust	Review	M	15 September 2012
EIA/EMP	Review of the EIA report for the IPP waterberg power station	Savanna Environmental (Pty) Ltd	Waterberg Power Station	Review	M	14 May 2013
EIA/EMP	Review of the EMP for the Knopjeslaagte Fuel station development	Alza Corporation	Knopjeslaagte	Review	M	08 July 2013
EIA/EMP	Compiled the EIA/EMP documentation for the upgrade of the Waste Water Treatment works.	Virtual Consulting Engineers	Zonderwater prison (DPW)	EIA/EMP	M	18 September 2013
EIA/EMP	Lannex Section: Drafted the scoping and EIA/EMP documents for the amendment of the existing mining rights.	Samancor Eastern Chrome Mines	Lannex	EIA/EMP	M	14 December 2013
EIA/EMP	Reviewed the EIA/EMP for the amendment of the Tweefontein section	Samancor Eastern Chrome Mines	Tweefontein	Review	M	15 April 2014
EIA/EMP	Review of the amendment of the existing EMPr for the Coal siding	Coastal Fuels (Pty) Ltd	Coal siding	Review	M	22 July 2014
EIA/EMP	Reviewed the EIA/EMP for the proposed Commissie kraal colliery by Tholie Logistics.	Lonmin Water user association	Commissie Kraal Colliery (Tholie Logistics)	Review	M	25 November 2015
EIA/EMP	Reviewed the EIA/EMP compiled for the amendment at the Mooihoek Chrome Mine (BCM)	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Review	P	01 March 2018
EIA/EMP	Reviewed the EIA/EMP compiled for the amendment at the Glenover Phosphate mine	Glenover Phosphate	Glenover	Review	P	01 April 2018
EMP	Reviewed the addendum to the approved EMP for the opencast sections	Samancor Eastern Chrome Mines	Tweefontein	Review	P	21 September 2012

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
Environmental Authorisation Audit	Audit on the Environmental Authorisation for the Samancor Lannex New Tailings storage facility	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	20-Mar-12
Environmental Authorisation audit	Conducted on audit on the compliance with the Environmental authorisation for the new tailings dam at Lannex	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	01-Mar-17
Environmental Authorisation audit	Conducted on audit on the compliance with the Environmental authorisation for the new tailings dam at Lannex	Samancor Eastern Chrome Mines	Lannex	Audit	M	16 March 2017
Environmental Due Diligence and Liability	Reviewed the Environmental Due Diligence and Liability report for portion 155 of the farm Elandskraal 469 JQ	Phoenix Platinum	Elandskraal / Minco	Review	P	27 August 2012
Environmental Due Diligence and Liability	Reviewed the Environmental Due Diligence and Liability report for portion 155 of the farm Elandskraal 469 JQ	Phoenix Platinum	Elandskraal / Minco	Review	P	29 January 2016
Financial Quantum and Liability	Reviewed the Financial quantum assessment for the Mooihoek Chrome Mine (BCM)	Sail group	Mooihoek (Black) Chrome Mine	Review	P	01 February 2018
Financial Quantum and Liability	Reviewed the Financial quantum assessment for the Rooderand Chrome Mine	Sail group	Rooderand	Review	P	01 February 2018
GN704 Audit	Conducted a GN704 audit on the existing activities at the mine	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Audit	M	21 June 2011
GN704 Audit	Conducted a GN704 audit on the existing activities at the mine	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Audit	M	29 September 2011
Hydrological Report	Review of the Hydrological report for the proposed phot-voltaic solar power generation plan	Aurora Power Solutions (Pty) Ltd	Padrooi	Review	M	24 April 2013
Hydrological Report	Review of the hydrological report for the proposed piggery	Number Two Piggeries (Pty) Ltd (REC Services)	Longside	Review	P	30 June 2016
ISO14401:2015 Audit	2nd Party audit for Canon Sa at Arengo Plastics (Pty) Ltd.	EOH	EOH	Audit	P	07 August 2018
ISO14401:2015 Audit	2nd Party audit for Canon Sa at Clearline Protection Systems (Pty) Ltd.	EOH	EOH	Audit	P	13 August 2018
ISO14401:2015 Audit	PECB Training on ISO14001: 2015 transitional requirements	EOH	PECB	Training	P	08 October 2018
ISO14401:2015 Audit	Conducted training on the implementation of ISO14001:2015	EOA	Omnia	Training	P	21 November 2018
IWWMP	Compiled the Integrated Water and Resource Management plan for the mine that was used as supporting information in the Water use licence application. Elandsfontein	Apollo Brick (Pty) Ltd	Elandsfontein	IWWMP	P	02 February 2009
IWWMP	Compiled the Integrated Water and Resource Management plan for the mine that was used as supporting information in the Water use licence application for the Nerston Port of Entry	Virtual Consulting Engineers	Nerston port of entry	IWWMP	M	17 July 2009
IWWMP	Compiled the Integrated Water and Resource Management plan for the Twyfelaar Chrome mine	MTC Minerals / CMR	Twyfelaar	IWWMP	M	02 December 2009
IWWMP	Compiled the Integrated Water and Resource Management plan for the Lannex Section's New Tailings dam	Samancor Eastern Chrome Mines	Lannex	IWWMP	M	14 January 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the Middelpunt mine (Mpumalanga) that was used as supporting information in the Water use licence application.	Ibhubesi Ore and Exploration (Pty) Ltd (Richmond Mining & Exploration)	Middelpunt	IWWMP	M	01 March 2010
IWWMP	Compiled the Integrated Water and Resource Management plan small scale mining activities at Sefateng Chrome Mine	MTC Minerals / CMR	Sefateng	IWWMP	M	05 March 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for Andalusite Resource Maroeloesfontein Mine	Andalusite Resources (Pty) Ltd	Maroeloesfontein	IWWMP	M	09 March 2010
IWWMP	Compilation of an IWWMP for the Water use licence process	Corridor Mining Resources	Fumani Gold Mine	IWWMP	M	06 May 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the mine that was used as supporting information in the Water use licence application.	Sky Chrome Mining (Pty) Ltd	Bapong	IWWMP	P	14 July 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the Buffelsfontein Sections	Samancor Western Chrome Mines	Buffelsfontein	IWWMP	M	12 August 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the Mooinooi Sections	Samancor Western Chrome Mines	Mooinooi	IWWMP	M	12 August 2010
IWWMP	Compiled the Integrated Water and Waste Management plan for the Buffelsfontein Section	Samancor Western Chrome Mines	Buffelsfontein	IWWMP	M	13 August 2010
IWWMP	Compiled the Integrated Water and Waste Management plan for the Mooinooi Section	Samancor Western Chrome Mines	Mooinooi	IWWMP	M	13 August 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the Sefateng Chrome mine	MTC Minerals / CMR	Sefateng	IWWMP	M	30 August 2010
IWWMP	Compiled the Integrated Water and Resource Management plan for the Imbabala Colliery	Altius 345 (Pty) Ltd	Imbabala Colliery	IWWMP	M	06 September 2010
IWWMP	Compiled a IWWMP for the operations	Hoyohoyo Mining (Pty) Ltd	Klipfontein Colliery	IWWMP	M	09 September 2010

Project	Outline	Company	Section	Type	Menco/ Prescali	Completion date
IWWMP	Compiled the Integrated Water and Waste Management plan for the Millsell and Waterkloof Sections	Samancor Western Chrome Mines	Millsell/Waterkloof	IWWMP	M	14 March 2011
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Vesuvius SA	Clayville	IWWMP	M	10 May 2012
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application	Samancor Eastern Chrome Mines	Tweefontein	IWWMP	M	01 November 2012
IWWMP	Compiled the Integrated water and waste management plan for the Water use licence application	Samancor Eastern Chrome Mines	Spitskop	IWWMP	M	06 December 2012
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Phoenix Platinum	Buffelsfontein	IWWMP	P	03 May 2013
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Chromex mining / Afarak / Ruuki	Mecklenburg Chrome Mine	IWWMP	M	25 May 2013
IWWMP	Review of the annually updated IWWMP for Andalusite Resources	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	15 July 2013
IWWMP	Drafted the IWWMP for the new Saldanha operations	AfriSam	Saldanha	IWWMP	M	25 July 2014
IWWMP	Updated the 2013 IWWMP report and drafted a Water balance for the licensee.	IFMSA	Buffelsfontein	IWWMP	P	09 September 2014
IWWMP	Compiled the IWWMP for the Water use licence amendment	Andalusite Resources (Pty) Ltd	Maroeloesfontein	IWWMP	M	29 September 2014
IWWMP	Review of the Integrated Mine Water Management Plan	AfriSam	Olifantsfontein	Review	M	07 November 2014
IWWMP	Compiled the Integrated Water and Waste Management plan for the Altona Smelter	Pan Palladium South Africa (Pty) Ltd	Altona Smelter	IWWMP	P	17 April 2015
IWWMP	Updated the IWRMP into the IWWMP format and applied for an amendment to the existing Water use licence. Elandsfontein	Apollo Brick (Pty) Ltd	Elandsfontein	IWWMP	P	03 July 2015
IWWMP	Review of the IWWMP for the South Block Extension	AEMFC (Gudani)	Viakfontein South	Review	M	20 September 2015
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd	PGE and PGM Mine	IWWMP	P	28 January 2016
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd	Magnetite mine	IWWMP	P	29 January 2016
IWWMP	Compiled the IWWMP for the Magnetite mining project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	IWWMP	P	01 March 2016
IWWMP	Compiled the IWWMP for the Hacra PGE mining project	Hacra Mining and Exploration Company (Pty) Ltd	PGE and PGM Mine	IWWMP	P	01 March 2016
IWWMP	Update of the IWWMP's for various sections into one document	AEMFC (Gudani)	Viakfontein	IWWMP	M	02 September 2016
IWWMP	Updated the IWWMP.	Phoenix Platinum	Buffelsfontein	IWWMP	P	27 September 2016
IWWMP	Compiled the IWWMP report for the Jagdlust section	Samancor Eastern Chrome Mines	Jagdlust	IWWMP	M	24 March 2017
IWWMP	Compiled the Integrated Water and Waste Management plan for the mine that was used as supporting information in the Water use licence application.	Sky Chrome Mining	Bapong	IWWMP	P	31 July 2017
IWWMP	Updated the IWWMP.	Phoenix Platinum	Buffelsfontein	IWWMP	P	21 November 2017
IWWMP	General Authorisation report for the Hacra (HW Iron) Magnetite project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	IWWMP	P	11 January 2018
IWWMP	Compiled the IWWMP for the Mooihoek Chrome Mine (BCM)	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	IWWMP	P	01 February 2018
IWWMP	Reviewed the IWWMP updated for Venetia mine	Gudani Consulting	Venetia mine	Review	P	31 May 2018
IWWMP	Annual update of the IWWMP for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	IWWMP	P	01 August 2018
IWWMP	Compiled the IWWMP for the water use licence application	Glenover Phosphate	Glenover	Review	P	22 November 2018
Legal Audit	Conducted an Existing Lawful use assessment at the site	Ibhubesi Ore and Exploration (Pty) Ltd (Richmond Mining & Exploration)	Middelpunt	Existing lawful use	M	29 May 2009

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
Legal Audit	Conducted a legal audit on the sections activities for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	18-Jan-12
Legal Audit	Conducted an audit on the legislative compliance of the mine.	Samancor Eastern Chrome Mines	Doornbosch/Steelpoort	Audit	M	18-Jan-12
Legal Audit	Conducted an audit on the legislative compliance of the mine.	Samancor Eastern Chrome Mines	Lannex	Audit	M	19 January 2012
Legal Audit	Tweefontein Section: Conducted an audit on legislative compliance of the mine (NEMA, NWA, NEMWA)	Samancor Chrome Ltd: Eastern Chrome	Tweefontein	Audit	M	11-Sep-12
Legal Audit	Conducted an audit on the legislative compliance of the mine: NEMA, 1998 and NEMWA, 2008	Samancor Eastern Chrome Mines	Tweefontein	Audit	M	11 September 2012
Legal Audit	Conducted an audit on the legislative compliance of the mine: NWA, 1998	Samancor Eastern Chrome Mines	Tweefontein	Audit	M	30 October 2012
Legal Audit	Conducted an audit to determine if Diesel tanks installation required an Environmental Authorisation	Sylvania	Lannex	Audit	P	12-May-17
Legal Audit	Conducted the Environmental Liability assessment associated with the Rooderand Chrome Mine	Sail group	Rooderand	Due Diligence	P	01 May 2018
Legal Audit	Conducted an audit on the legislative compliance of the mine.	Samancor Eastern Chrome Mines	Lannex	Review	P	2011/05/02 2011/09/09 2012/03/20
Monitoring	Ad-hock assistance with conducting water monitoring for the project.	Department of Water Affairs	Harties Metsi A Me project	Monitoring	M	31 December 2010
Monitoring	Review of the Biomonitoring assessment for the coal expansion project	Vunene Mining	Vunene (Eco Elementum)	Review	M	01 April 2014
Monitoring	Compilation of Water Quality Report	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Monitoring	M	1) 2010/05/10 2) 2010/08/11 3) 2010/12/02 4) 2011/04/11 5) 2011/07/28 6) 2011/10/11 7) 2012/01/06 8) 20120322 9) 20120605 10) 20121001
Monitoring	Compiled the water monitoring reports	Phoenix Platinum	Buffelsfontein	Monitoring report	P	1) 2018/05/01 (MR) 2) 2018/06/01(MR)&(QR) 3) 2018/06/21(QR) 4) 2018/07/01(MR) 5) 2018/08/01(MR) 6) 2018/09/25(QR) 7) 2018/10/11(MR) 8) 2018/1022(QR) 9) 2011/11/12(MR) 10) 2018/12/04(QR) 11) 2018/12/12(MR) 12) 2019/02/01 (QR) 13) 2018/04/01(AR) 14) 2018/04/01(MR) 15) 2019/06/03(MR)&(QR)
Monitoring	Reviewed the water monitoring reports	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Monitoring report	P	1) 2018/10/07(MR)
Monitoring	Compiled the water monitoring reports	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Monitoring report	P	1) 2018/11/07(MR) 2) 2018/11/25(MR) 3) 2019/01/28(MR) 4) 2019/02/04(MR)
Monitoring	Review of monitoring reports	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	11) 20130212 2013 - 2017
Monitoring	Reviewed and assessed the following bi-annual bio-monitoring reports for Elandsfontein	Apollo Brick (Pty) Ltd	Elandsfontein	Review	P	2013/07/01 2014/03/05 2014/08/05 2015/02/05 2015/08/05 2016/02/05 2016/08/05 2017/02/05 2017/08/05
Monitoring	Reviewed and assessed the consolidated monitoring reports for Elandsfontein	Apollo Brick (Pty) Ltd	Elandsfontein	Review	P	2014/02/08 2011/06/05
Monitoring	Reviewed and assessed the bi-annual bio-monitoring reports:	Coastal Fuels (Pty) Ltd	Witkranz	Review	M	2014/10/31 2015/02/17 2015/10/01
Noise assessment	Review of the Noise assessment report	Aurecon	Enia	Review	M	01 September 2013
Performance Assessment	Conducted an audit on the compliance with the EMP for the Tailings Storage Facility	Samancor Eastern Chrome Mines	Lannex	Audit	P	27 October 2010
Performance Assessment	Reviewed an audit on the compliance with the requirements of the EMPR	IFMSA	Buffelsfontein	Review	P	05 January 2011
Performance Assessment	Reviewed the EMPR performance assessment for the Stellite operations	Chromex mining / Afarak / Ruuki	Illitha / Stellite	Review	P	07 July 2014

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
Performance Assessment	Conducted an external audit on the Mining right holders compliance with the EMPR.	IFMSA	Buffelsfontein	Audit	P	18 November 2014
Performance Assessment	Conducted an external audit on the Mining right holders compliance with the EMPR.	Sky Chrome Mining	Bapong	Audit	P	29-Apr-15
Performance Assessment	Conducted a performance assessment on the EMPR for the tailings dam.	Phoenix Platinum	Buffelsfontein	Audit	P	10 November 2017
Performance Assessment	Performance assessment on EMP requirements for Moeijelijk Mine: Bauba	Bauba (sub-contracted by Red Kite)	Moeijelijk Chrome Mine (Red Kite)	Audit	P	13 April 2018
Performance Assessment	Review of the EMP Performance assessment for the prospecting permit on Palmietfontein	Palm Chrome	Palmietfontein	Review	P	01 August 2018
Performance Assessment	Conducted an audit and an Environmental performance assessment on the approved EIA/EMP	Matutu Clay Mining (Pty) Ltd	Matutu	Audit	P	22 November 2018
Pollution incident	Compiled a pollution incident report	Coastal Fuels (Pty) Ltd	Witrand	Pollution incident report	M	13 April 2012
Public Participation	Facilitated the Public participation process for the Corobrik New Kilns expansion project	Corobrik	Driefontein	Public Participation Process	P	01 February 2018
Public Participation	Conducted Basic Public Participation for the Glenover Phosphate mine (Municipal Meetings)	Glenover Phosphate	Glenover	Public Participation Process	P	01 April 2018
Rehabilitation	Compiled the Emergency Rehabilitation Plan for the activities that occurred on the farm Middelpunt, Mpumalanga	Richmond Mining & Exploration	Middelpunt	Emergency Rehabilitation	M	18 September 2009
Rehabilitation	Compiled a rehabilitation plan for the Witkranz colliery area	Coastal Fuels (Pty) Ltd	Witkranz	Rehabilitation plan	M	13 January 2015
Rehabilitation	Drafted the supporting documentation for the Mooihoek Chrome Mine Water use licence application: Monitoring programme, Work Method Statement, Rehabilitation strategy and Landscape Maintenance Plan	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	RSIP	P	01 January 2018
Rehabilitation	Annual update of the Rehabilitation Strategy and Landscape Maintenance Plan for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	Rehabilitation strategy and Landscape Maintenance plan	P	06 June 2018
Rehabilitation	Reviewed the actual rehabilitation cost as applicable to the TNT shaft at Mooihoek	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Review	P	16 October 2018
Risk Assessment	Compilation of a risk assessment for the closure of the Paardeplaats Section	Coastal Fuels (Pty) Ltd	Paardeplaats	Risk assessment	M	01 March 2012
Risk Assessment	Risk assessment report for the proposed pipeline at Mooihoek Chrome Mine (BCM)	Umnotho we-Sizwe Resources	Mooihoek (Black) Chrome Mine	Risk Assessment (surface water)	P	01 July 2018
Risk Assessment	Conducted the Section 21© and (i) Risk assessment for the proposed development	Nouvelle	Meadowhurst	Surface water	P	18 June 2019
RSIP	Review of the Rehabilitation plan for the proposed development	Kwa-Madwala Private Game reserve	Nkomazi Safari Hotel	Review	M	22 June 2017
RSIP	Compiled a rehabilitation plan for Meadowhurst	Nouvall	Meadowhurst	Rehabilitation strategy	P	12 October 2017
RSIP	Drafted the rehabilitation plan for the impacts on watercourses as a result of mining activities	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Rehabilitation strategy and Landscape Maintenance plan	P	01 January 2018
Salt Balance	Drafted the Salt Balance for the Sefateng Chrome Mine.	MTC Minerals / CMR	Sefateng	Salt balance	M	13 October 2009
Salt Balance	Compiled the Salt Balance report for the existing operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Salt balance	M	19 November 2009
Salt Balance	Drafted the Salt Balance for the Twyfelaar Chrome Mine.	MTC Minerals / CMR	Twyfelaar	Salt balance	M	01 December 2009
Salt Balance	Compiled a static water and salt balance as per the DWS requirements for the new mining activities	Samancor Eastern Chrome Mines	Lwala	Salt balance	M	07 June 2012
Salt Balance	Compiled the Salt Balance report for the existing operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Salt balance	M	30 July 2013
Salt Balance	Compiled a water and salt balance for the iron mine.	Assmang Khumani Mine (GPT)	Khumani mine	Salt balance	M	05 December 2014
Salt Balance	Compiled the 2107 Salt Balance and Mass balance report for the Buffelsfontein East Section	Samancor Western Chrome Mines	Buffelsfontein East	Salt balance	M	01 February 2018
Scoping Report	Drafted the Scoping Report for the EIA/EMP for Jagdlust Section	Samancor Eastern Chrome Mines	Jagdlust	Scoping Report	M	19 May 2009
Scoping Report	Compiled the Scoping and EIA/EMP Documents for the waste act application to re-use slag	IFMSA	Buffelsfontein	Waste Management	P	19 May 2011
Scoping Report	Drafted the Scoping Report for the EIA/EMP for Tweefontein Section	Samancor Eastern Chrome Mines	Tweefontein	Scoping Report	M	08 April 2013
Section 24(g)	Compiled a section 24(g) application under NEMA.	IFMSA	Buffelsfontein	Section 24(g)	P	10 February 2011
Section 24(g)	Compiled the Water quality management report for the upgrade of the Waste Water Treatment works.	Virtual Consulting	Swartkopfontein Border Post (DPW)	Section 24(g)	M	10 July 2013

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
Storm water management	Drafting a Storm water Management report that complies with Department of the Water Affairs requirements to outline management aspects and storm water catchment at the clients site.	Vesuvius SA	Clayville	Storm water	M	04 November 2008
Surface and wetland assessment	Conducted the surface water and wetland assessment for the Zwartkoppies and Rietspruit Development (Edenpark) (Ekurhuleni Municipality)	Gudani Consulting	Edenpark) (Ekurhuleni)	Surface water and wetland assessment	P	16 May 2018
Surface water assessment	Conducted the surface water assessment for the Twyfelaar Chrome Mine.	MTC Minerals / CMR	Twyfelaar	Surface water	M	30 July 2009
Surface water assessment	Conducted the surface water assessment for the Fumani Mine.	Corridor Mining Resources	Fumani Gold Mine	Surface water	M	01 March 2010
Surface water assessment	Conducted the surface water assessment for the Sefateng Chrome Mine.	MTC Minerals / CMR	Sefateng	Surface water	M	09 April 2010
Surface water assessment	Conducted a surface water assessment at Imbabala Colliery	Altius 345 (Pty) Ltd	Imbabala Colliery	Surface water assessment	M	13 August 2010
Surface water assessment	Conducted a surface water assessment for the Klipfontein Colliery	Hoyohoyo Mining (Pty) Ltd	Klipfontein Colliery	Surface water	M	20 September 2010
Surface water assessment	Conducted the surface water assessment for the proposed solar energy facility	ACED Renewables de Aar (Pty) Ltd	De Aar	Surface water assessment	M	22 July 2011
Surface water assessment	Compiled the surface water assessment and related impact prediction for the new mining activities	Samancor Eastern Chrome Mines	Spitskop	Surface water assessment	M	01 June 2012
Surface water assessment	Conducted a surface water assessment to determine impacts and current status	Polmaise Colliery Middelburg	Polmaise Colliery	Surface water assessment	M	14 June 2012
Surface water assessment	Conducted a surface water assessment and impact assessment for the proposed mine.	Samancor Eastern Chrome Mines	Jagdust	Surface water	M	16 September 2012
Surface water assessment	Conducted the surface water impact and resource assessment for the proposed activities.	Chromex mining / Afarak / Ruuki	Mecklenburg Chrome Mine	Surface water	P	06 May 2013
Surface water assessment	Compiled a surface water assessment of the rivers that could be impacted by the proposed expansion activities.	Vunene Mining	Vunene (Eco Elementum)	Surface water	M	17 March 2014
Surface water assessment	Compiled a surface water assessment of the rivers that could be impacted by the proposed Iron Smelting Activities	Pan Palladium South Africa (Pty) Ltd	Altona Smelter	Surface water assessment	M	13 August 2014
Surface water assessment	Compiled a surface water assessment of the rivers that could be impacted by the proposed activities.	Pan Palladium South Africa (Pty) Ltd	Magnetite mine	Surface water	M	03 September 2014
Surface water assessment	Conducted the surface water assessment for the Fumani Mine.	Corridor Mining Resources	Fumani Gold Mine	Surface water	M	10 September 2014
Surface water assessment	Review of the Surface water assessment	Savanna Environmental (Pty) Ltd	Transalloys power plant Witbank	Review	M	11 October 2014
Surface water assessment	Short report on drainage channels at Mecklenburg	Chromex mining / Afarak / Ruuki	Mecklenburg Chrome Mine	Surface water	P	12 November 2014
Surface water assessment	Review of the Surface water assessment	Prestige College (REC Services)	Hammanskraal	Review	P	10 August 2016
Surface water assessment	Review of the Surface water assessment	Steynburg Pork and Abattoir (Pty) Ltd (REC Services)	Steynburg	Review	P	12 October 2016
Surface water assessment	Drafted the Surface water component for the Environmental Management Frameworks for the Vhembe District Municipality	Gudani Consulting	EMF Surface water (Capricorn and Vhembe DM)	Surface water	M	01 December 2017
Surface water assessment	Drafted the Surface water component for the Environmental Management Frameworks for the	Gudani Consulting	EMF Surface water (Capricorn and	Surface water	M	01 December 2017
Surface water assessment	Conducted a surface water impact assessment for the proposed Bauba operations (central, northern,	Bauba (sub-contracted by	Central, Northern, southern and	Surface water	P	15 December 2017
Surface water assessment	Review of the surface waer assessment report	Red Kite	Rondevly	Surface water	P	03 February 2018
Surface water assessment	Conducted an Aquatic Assessment for the proposed sand winning activities in the Mokolo River	Gudani Consulting	Mokolo River	Surface water assessment	P	22 February 2018
Surface water assessment	Compiled an aquatic assessment for the Northdene plot 3 development	Vaalplan Regional and Town planners (Wilgeblare Beleggings)	Northdene	Surface water assessment	P	01 April 2018
Surface water assessment	Conducted the Desktop surface water assessment for the Tedstoneville development: Erf 853, Extension 1 (Ekurhuleni Municipality)	Gudani Consulting	Tedstoneville	Surface water assessment	P	27 April 2018
Surface water assessment	Conducted the desktop surface water assessment for the Thaba Chueue mining right application	Gudani Consulting	Thaba Chueue	Surface water assessment	P	15 June 2018
Surface water assessment	Conducted the Aquatic Assessment for the Small Scale mining activities in the Klein Letaba River	Gudani Consulting	Sandberg / Mona mona: Klein Letaba	Surface water assessment	P	05 July 2018
Surface water assessment	Desktop Surface water assessment for Palm Chrome on the farm Palmietfontein	Palm Chrome	Palmietfontein	Surface water assessment	P	17 August 2018
Surface water assessment	Conducted the desktop Surface water assessment for 7 Seas Capital Ventures (Granite mining) in the Western Cape	Gudani Consulting	7Seas Capital ventures	Surface water assessment	P	22 August 2018
Surface water assessment	Reviewed the Surface water assessment report for the Rooderand Chrome Mine	Sail group	Rooderand	Review	P	04 September 2018
Surface water assessment	Conducted the desktop Surface water assessment for Highly Blue (Granite mining) in the North West	Gudani Consulting	Highly Blue	Surface water assessment	P	16 October 2018

Project	Outline	Company	Section	Type	Menco/Prescali	Completion date
Surface water assessment	Conducted a Surface water assessment for the proposed sand dredging in the Crocodile River	Gudani Consulting	Sanmar sands cc	Surface water	P	13 December 2018
Surface water assessment	Review of the surface waer assessment report	Red Kite	SHPM	Surface water	P	15 May 2019
Surface water assessment	Review of the surface waer assessment report	Red Kite	Silverton	Surface water	P	23 May 2019
Surface water assessment	Conducted a Surface water assessment for the proposed weir and pond	Gudani Consulting	Cottondale	Surface water	P	31 May 2019
Surface water assessment	Conducted a Surface water assessment for the proposed cemetary	Gudani Consulting	Mashishing	Surface water	P	04 June 2019
Surface water assessment	Conducted a Surface water assessment for the proposed Lodge	Gudani Consulting	Nkanyi Lodge	Surface water	P	20 June 2019
Terrestrial biodiversity	Review of the Fauna Terrestrial biodiversity plan	Kwa-Madwala Private Game reserve	Nkomazi Safari Hotel	Review	P	31 May 2017
Terrestrial biodiversity	Reviewed the Fauna Terrestrial Assessment for the Zwartkopjes and Rietspruit Development (Edenpark) (Ekurhuleni Municipality)	Gudani Consulting	Edenpark	Review	P	18 May 2018
Terrestrial biodiversity	Review of the Fauna terrestrial assessment for Palm Chrome on the farm Palmietfontein	Palm Chrome	Palmietfontein	Review	P	01 August 2018
Terrestrial biodiversity	Review of the Fauna terrestrial assessment for Sefateng Chrome Mine	Red Kite	Sefateng Chrome Mine	Review	P	01 August 2018
Terrestrial biodiversity	Review of the Flora Assessment	Red Kite	Memorial Park	Review	P	28 September 2018
Terrestrial biodiversity	Review of the Fauna and Terrestrial assessment for the SHPM	Red Kite	SHPM	Review	P	27 May 2019
Training	Training Omnia Fertiliser on ISO14001: 2015 transitional requirements	EOH	EOH	Training	P	22 May 2018
Training	Environmental Law (NEMA) for Protechnic a division of ARMSCOR	EOH	EOH	Training	P	24 May 2018
Training	Environmental Law (NEMA) for Protechnic a division of ARMSCOR	EOH	EOH	Training	P	29 May 2018
Training	Training Omnia Fertiliser on ISO14001: 2015 transitional requirements	EOH	EOH	Training	P	29 May 2018
Waste Classification	Conducted a waste classification on waste generated by Joc Abrasives (sanding paper)	Joc Abrasives	Joc Abrasives	Waste Management	M	27 September 2016
Waste Classification	Compiled the waste classification report	Glenover Phosphate	Glenover	Waste Management	P	19 February 2018
Waste Classification	Conducted baseline waste classification for Mr Piet Greyling	Piet Greyling	DNCC Granite	Waste Management	P	01 June 2018
Waste Classification	Conducted a waste classification on waste generated by Langpan Chrome mine	Langpan Chrome Mine	Langpan	Waste Management	P	22 November 2018
Waste Classification	Conducted a waste classification on waste generated by the Vlakpoort Chrome Mine	Afarak	Vlakpoort	Waste Management	P	21 January 2019
Waste Classification	Conducted a waste classification on waste generated by the Odendaalsrus operations	Corobrik	Odendaalsrus	Waste Management	P	08 February 2019
Waste Classification	Reviewed the waste classification Reports	Corobrik	Eastbrick	Waste Management	P	25 May 2019
Waste Classification	Reviewed the waste classification Reports	Corobrik	Middlewit	Waste Management	P	25 May 2019
Waste Classification	Reviewed the waste classification Reports	Corobrik	Glencoe	Waste Management	P	27 May 2019
Waste Classification	Conducted a waste classification on waste generated by the Driefontein operations	Corobrik	Driefontein	Waste Management	P	18 June 2019
Waste Delisting	Compiled documentation for the application to delist residue stockpiles	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Waste Management	M	04 December 2014
Waste Management Audit	Conducted a performance assessment on compliance with the Waste management licence for the new slimes dam	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	23 May 2017
Waste Management Audit	Conducted a performance assessment on compliance with the Waste management licence for the Decommissioning of the Northern Slimes dam	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	13 September 2017
Waste Management Audit	Conducted a performance assessment on compliance with the Waste management licence for the Decommissioning of the Various Slimes dams	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	13 September 2017
Waste Management Audit	Conducted a performance assessment on compliance with the Waste management licence for the new slimes dam	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	29 November 2017
Waste Management Audit	Conducted a performance assessment on compliance with the Waste management licence for the Slag dump	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	29 November 2017
Waste Management Plan	Compiled the waste management plan with classification for the new mining activities.	Samancor Eastern Chrome Mines	Spitskop	Waste Management	M	07 June 2012
Waste Management ROD	Compiled the ROD application submitted to the DWS for the Waste management activities	Glenover Phosphate	Glenover	Waste Management	P	16 November 2018
Water and Salt Balance	Drafted the Salt Balance for the Fumani Mine.	Corridor Mining Resources	Fumani Gold Mine	Water and Salt Balance	M	01 March 2010
Water and Salt Balance	Conducted a surface water assessment at Imbabala Colliery	Altius 345 (Pty) Ltd	Imbabala Colliery	Water and Salt Balance	M	05 June 2010
Water and Salt Balance	Compiled the water and Salt Balance	Coastal Fuels (Pty) Ltd	Droogvallei & Paardeplaats	Water and Salt Balance	M	17 May 2011
Water and Salt Balance	Compiled the static water and salt balance for the proposed new mining activities	Samancor Eastern Chrome Mines	Spitskop	Water and Salt Balance	M	30 May 2012
Water and Salt Balance	Compiled the static water and salt balance for the existing operations.	Samancor Eastern Chrome Mines	Tweefontein	Water and Salt Balance	M	02 November 2012

Project	Outline	Company	Section	Type	Menco/ Prescali	Completion date
Water and Salt Balance	Conducted the water and Salt Balance report for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	Salt balance	P	05 July 2018
Water and Salt Balance	Drafted the wet season water and Salt balance for Moeijelijk Mine.	Bauba (sub-contracted by Red Kite)	Moeijelijk Chrome Mine (Red Kite)	Water balance	P	14 July 2018
Water Availability Opinion	Opinion on impacts of re-use of treated sewage effluent from Waterval WWTW if not released to surface water resource	Gudani Consulting	Ekurhuleni Waterval	Surface water	P	28 November 2014
Water Availability Opinion	Water Availability and impact of re-use of Treated Waste When not released into the water resource: Olifantsfontein and Waterval	Gudani Consulting	Ekurhuleni	Surface water	P	18 September 2017
Water Availability Opinion	Opinion on impacts of re-use of treated sewage effluent from Olifantsfontein WWTW if not released to surface water resource	Gudani Consulting	Ekurhuleni Olifantsfontein	Surface water	P	10 November 2017
Water Balance	Determine the water requirements for the mine and detail the water balance as per the Department of Water Affairs requirements.	Ruighoek chrome mine	Ruighoek	Water balance	M	07 August 2008
Water Balance	Drafted the water Balance for the Sefateng Chrome Mine.	MTC Minerals / CMR	Sefateng	Water balance	M	13 October 2009
Water Balance	Drafted the water Balance for the Twyfelaar Chrome Mine.	MTC Minerals / CMR	Twyfelaar	Water balance	M	01 December 2009
Water Balance	Compiled a water and salt balance as per the DWS requirements for the Colliery.	Polmaise Colliery Middelburg	Polmaise Colliery	Water balance	M	25 May 2012
Water Balance	Compiled a static water and salt balance as per the DWS requirements for the new mining activities.	Samancor Eastern Chrome Mines	Lwala	Water balance	M	12 February 2013
Water Balance	Updated the 2013 IWWMP report and drafted a Water balance for the licensee.	IFMSA	Buffelsfontein	Water balance	P	09 July 2014
Water Balance	Compilation of a static water balance report	Corridor Mining Resources	Fumani Gold Mine	Water balance	M	10 September 2014
Water Balance	Compiled the water balance report for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd: PGE Project	PGE and PGM Mine	Water balance	P	21 December 2015
Water Balance	Compiled the water balance report for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd	Magnetite mine	Water balance	P	28 January 2016
Water Balance	Drafted the annual water balance for Moeijelijk Mine.	Bauba (sub-contracted by Red Kite)	Moeijelijk Chrome Mine (Red Kite)	Water balance	M	15 November 2017
Water Balance	Compiled the 2017 Water balance report for the Buffelsfontein East Section	Samancor Western Chrome Mines	Buffelsfontein East	Water balance	M	01 February 2018
Water Balance	Compiled a static water balance for existing and proposed new activities	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Water balance	P	01 March 2018
Water Balance	Compiled the static water balance for Venetia mine	Gudani Consulting	Venetia mine	Water balance	P	19 April 2018
Water Balance	Compiled the dry season and annual water balance for the mine	Red Kite	Bauba	Water Balance	P	03 June 2019
Water monitoring programme	Compiled the water monitoring plan for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd: PGE Project	Magnetite mine	Water monitoring programme	P	09 November 2015
Water monitoring programme	Compiled the water monitoring plan for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd: PGE Project	PGE and PGM Mine	Water monitoring programme	P	17 December 2015
Water monitoring programme	Compiled the Water Monitoring Programme for the Magnetite mining project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	Water monitoring programme	P	22 February 2016
Water monitoring programme	Compiled the Water Monitoring Programme for the Hacra PGE mining project	Hacra Mining and Exploration Company (Pty) Ltd	PGE and PGM Mine	Water monitoring programme	P	25 February 2016
Water monitoring programme	Compiled a Surface and Groundwater monitoring plan for the Mooihoek Chrome Mine (BCM)	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Water monitoring programme	P	01 January 2018
WCDMP	Compiled the WCDMP.	Phoenix Platinum	Buffelsfontein	WCDMP	P	20 October 2016
WCDMP	Annual update of the WCDMP for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	WCDMP	P	04 September 2017
WCDMP	Compiled the WCDMP for Buffelsfontein East	Samancor Western Chrome Mines	Buffelsfontein East	WCDMP	M	01 February 2018
WCDMP	Compiled the WCDMP for Venetia Mine	Gudani Consulting	Venetia Mine	WCDMP	P	25 April 2018
WCDMP	Annual update of the WCDMP for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	WCDMP	P	01 July 2018
Wetland Rehabilitation Plan	Compiled the Wetland Rehabilitation and management Plan for the Magnetite mining project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	RSIP	P	08 January 2016
Wetland Rehabilitation Plan	Compiled the Wetland Rehabilitation and management for the Magnetite mining project based on available studies and information to support a water use licence application	Pan Palladium South Africa (Pty) Ltd	Magnetite mine	RSIP	P	12 January 2016

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Wetland Delineation	Review of the wetland delineation study	Savanna Environmental (Pty) Ltd	Transalloys power plant Witbank	Review	M	09 October 2014
Wetland Delineation	Review of the wetland delineation study	AfriSam	Saldanha	Review	M	06 June 2016
Wetland Delineation	Review of the wetland delineation study	Roman Catholic Archdiocese of Johannesburg (REC Services)	Kruitfontein	Review	P	03 March 2017
Wetland Rehabilitation plan	Compiled the wetland rehabilitation plan	AfriSam	Saldanha	Wetland rehabilitation plan	M	06 June 2016
Work Method Statement	Compilation of the Work Method Statement for the Bok River	AfriSam	Saldanha	Work Method Statement	M	23 March 2015
Work Method Statement	Compiled the Work Method Statement for the Magnetite mining project	Hacra Mining and Exploration Company (Pty) Ltd	Magnetite mine	Work Method Statement	P	21 December 2015
Work Method Statement	Compiled the work method statement for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd: PGE Project	Magnetite mine	Work Method Statement	P	21 December 2015
Work Method Statement	Compiled the work method statement for the mine that was used as supporting information in the Water use licence application.	Pan Palladium South Africa (Pty) Ltd: PGE Project	PGE and PGM Mine	Work Method Statement	P	21 December 2015
Work Method Statement	Compiled the Water Monitoring Programme for the Hacra PGE mining project	Hacra Mining and Exploration Company (Pty) Ltd	PGE and PGM Mine	Work Method Statement	P	25 February 2016
Work Method Statement	Drafted the Work method statement for the impacts on water courses as a result of mining activities	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	Work Method Statement	P	01 January 2018
WQMR	Compiled the Water Quality Management Report as per the DWS guideline as part of the Water use licence.	Virtual Consulting Engineers	Ekuseni Youth Centre (DPW) MAGWA	IWWMP	M	18 February 2011
WQMR	Compiled the Water Quality Management Report as per the DWS guideline as part of the Water use licence.	Virtual Consulting Engineers	Ncome Prison (DPW: Shawshank)	IWWMP	M	18 February 2011
WQMR	Compiled the Water quality management report for the upgrade of the Waste Water Treatment works.	Virtual Consulting Engineers	Zonderwater prison (DPW)	Project Management	M	29 May 2013
WQMR	Compiled the Water quality management report for the upgrade of the Waste Water Treatment works.	Virtual Consulting Engineers	Zonderwater prison (DPW)	WQMR	M	29 May 2013
WQMR	Compiled the Section 24(g) application documentation for the upgrade of the Waste Water Treatment works.	Virtual Consulting Engineers	Swartkopfontein Border Post (DPW)	24G Application	M	25 October 2013
WQMR	Compiled the WQMR for the ERWAT Vlakplaats Water use licence amendment	Virtual Consulting Engineers	ERWAT Vlakplaats (DWP = Maziya)	IWWMP	M	
WUL Audit	Conducted the External Water Use Licence audit for Apollo brick	Apollo Brick	Elandsfontein	Audit	P	16 September 2011
WUL Audit	Reviewed the WUL Audit report for the Maroeloesfontein Operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	29 September 2011
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Doornbosch/Steelpoort	Samancor Chrome Ltd: Eastern Chrome	Doornbosch/Steelpoort	Audit	M	18-Jan-12
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	18-Jan-12
WUL Audit	Conducted a legal audit on the compliance with the WUL for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	18-Jan-12
WUL Audit	Conducted the External Water Use Licence audit for Apollo brick	Apollo Brick	Elandsfontein	Audit	P	20 July 2012
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	IFMSA	Buffelsfontein	Audit	P	22 August 2012
WUL Audit	Reviewed the WUL Audit report for the Maroeloesfontein Operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	20 January 2013
WUL Audit	Conducted the External Water Use Licence audit for Apollo brick	Apollo Brick	Elandsfontein	Audit	P	05 July 2013
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	IFMSA	Buffelsfontein	Audit	M	05 September 2013
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Doornbosch/Steelpoort	Samancor Chrome Ltd: Eastern Chrome	Doornbosch/Steelpoort	Audit	M	09-Dec-13
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	10-Dec-13
WUL Audit	Conducted an audit on the compliance with the Water use licence	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	17 December 2013
WUL Audit	Facilitated and compiled additional documentation for the WUL submitted in 2008	Coastal Fuels (Pty) Ltd	Droogvallei	Project Management	M	01 January 2014

Project	Outline	Company	Section	Type	Menco/ Prescali	Completion date
WUL Audit	Reviewed the WUL audit for the Stellite operations	Chromex mining / Afarak / Ruuki	Illitha / Stellite	Review	P	07 July 2014
WUL Audit	Conducted the External Water Use Licence audit for Apollo brick	Apollo Brick	Elandsfontein	Audit	P	21 October 2014
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	IFMSA	Buffelsfontein	Audit	P	18 November 2014
WUL Audit	Reviewed the WUL Audit report for the Maroeloesfontein Operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	07 January 2015
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Doornbosch/Steelpoort	Samancor Chrome Ltd: Eastern Chrome	Doornbosch/Steelpoort	Audit	M	07-Apr-15
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	07-Apr-15
WUL Audit	Review of annual external water use licence audit	Coastal Fuels (Pty) Ltd	Various	Review	M	20 July 2015
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	Phoenix Platinum	Buffelsfontein	Audit	P	09 October 2015
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	Apollo Brick (Pty) Ltd	Elandsfontein	Audit	P	19 October 2015
WUL Audit	Conducted the Water use licence audit for the Stellite operations	Chromex mining / Afarak / Ruuki	Illitha / Stellite	Audit	P	22 October 2015
WUL Audit	Reviewed the WUL Audit report for the Maroeloesfontein Operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	05 December 2015
WUL Audit	Conducted the External Water Use Licence audit for Lannex Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	25-Apr-16
WUL Audit	Conducted the External Water Use Licence audit for Spitskop Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	25-Apr-16
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	Chromex mining / Afarak / Ruuki	Mecklenburg Chrome Mine	Audit	P	26 May 2016
WUL Audit	Conducted the External Water Use Licence audit for Tweefontein Section	Samancor Chrome Ltd: Eastern Chrome	Lannex	Audit	M	07-Sep-16
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	Apollo Brick (Pty) Ltd	Elandsfontein	Audit	P	22 September 2016
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions.	Phoenix Platinum	Buffelsfontein	Audit	P	20 October 2016
WUL Audit	Reviewed the WUL Audit report for the Maroeloesfontein Operations	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Review	M	06 January 2017
WUL Audit	Conducted the External Water Use Licence audit for Lwala Section	Samancor Eastern Chrome Mines	Lwala	Audit	M	16 March 2017
WUL Audit	Conducted the External Water Use Licence audit for Doornbosch/Steelpoort Section	Samancor Chrome Ltd: Eastern Chrome	Steelpoort Section	Audit	M	24-Apr-17
WUL Audit	Conducted a Water use licence audit.	Phoenix Platinum	Buffelsfontein	Audit	P	11 September 2017
WUL Audit	Review of the external audit on the licensee's compliance with the water use licence conditions.	Apollo Brick (Pty) Ltd	Elandsfontein	Review	P	02 October 2017
WUL Audit	Review of annual external water use licence audit	Coastal Fuels (Pty) Ltd	Various	Review	M	30 November 2017
WUL Audit	Conducted a Water use licence audit.	Samancor Chrome Ltd: Ferrometals	Ferrometals	Audit	M	30 November 2017
WUL Audit	Reviewed the WUL audit report for the Grasvally Chrome mine.	Sylvania	Grasvally Chrome mine	Review	P	01 January 2018
WUL Audit	Water use licence audit for Moeijelijk Mine: Bauba	Bauba (sub-contracted by Red Kite)	Moeijelijk Chrome Mine (Red Kite)	Audit	P	13 April 2018
WUL Audit	External Water Use Licence audit for the Kingdom Development Company	MENCO	Kingdom	Audit	P	08 August 2018
WUL Audit	Internal audit on the WUL for Phoenix Platinum	Phoenix Platinum	Buffelsfontein	Audit	P	20 August 2018
WUL Audit	Water use licence audit for Moeijelijk Mine: Bauba (Amended licence)	Bauba (sub-contracted by Red Kite)	Moeijelijk Chrome Mine (Red Kite)	Audit	P	12 September 2018
WUL Audit	Review of the external audit on the licensee's compliance with the water use licence conditions.	Apollo Brick (Pty) Ltd	Elandsfontein	Audit and Review	P	05 October 2018
WUL Audit	Conducted an External Water Use Licence Audit: Sefateng Chrome Mine	Red Kite	Sefateng Chrome Mine	Audit	P	29 November 2018
WUL Audit	Conducted an External Water Use Licence Audit: Chevron SA - Millies	MENCO	Chevron SA - Millies	Audit	P	11 December 2018
WUL Audit	Conducted an External Water Use Licence Audit: Omnia Fertilisers	EOH	Omnia: Sasolburg	Audit	P	15 January 2019
WUL Audit	Conducted an External Water Use Licence Audit: Omnia Fertilisers	EOH	Omnia: Rustenburg	Audit	P	22 January 2019

Project	Outline	Company	Section	Type	Menco/ Prescali	Completion date
WUL Audit	Conducted an External Water Use Licence Audit: Grasvally Chrome Mine	Sylvania	Grasvally Chrome mine	Audit	P	05 June 2019
WUL Audit	Conducted an external audit on the licensee's compliance with the water use licence conditions for Lannex Section	Samancor Eastern Chrome Mines	Lannex	Audit	M	2012/04/17 2014/08/11 2015/06/03 2016/05/06 2017/06/06
WUL Audit	Conducted the External Water Use Licence audit for Spitskop Section	Samancor Eastern Chrome Mines	Spitskop	Audit	M	2016/05/25 2017/04/25
WUL Audit	Conducted the External Water Use Licence audit for Tweefontein Section	Samancor Eastern Chrome Mines	Tweefontein	Audit	M	2016/09/12 2017/05/24
WULA	Assisted with the finalisation of the application for a water use licence for the Rustenburg Waste Water Treatment works.	SRK	Rustenburg Local Municipality	WULA	M	15 October 2009
WULA	Water use licence application process for the Twyfelaar Chrome Mine	MTC Minerals / CMR	Twyfelaar	WULA	M	02 December 2009
WULA	Water use licence application process for the Middelpunt activities.	Ibhubesi Ore and Exploration (Pty) Ltd (Richmond Mining & Exploration)	Middelpunt	WULA	M	01 March 2010
WULA	Facilitated the Water use licence application process for the Maroeloesfontein operation	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Project Management	M	25 June 2010
WULA	Water use licence application process for the Buffelsfontein Sections	Samancor Western Chrome Mines	Buffelsfontein	WULA	M	12 August 2010
WULA	Water use licence application process for the Mooinooi Section	Samancor Western Chrome Mines	Mooinooi	WULA	M	12 August 2010
WULA	Water use licence application process for the Sefateng Chrome Mine	MTC Minerals / CMR	Sefateng	WULA	M	30 August 2010
WULA	Water use licence application process for Millsell and Waterkloof Sections	Samancor Western Chrome Mines	Millsell/Waterkloof	WULA	M	14 March 2011
WULA	Facilitated the Water use licence amendment process for the Maroeloesfontein operation	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Project Management	M	23 May 2012
WULA	Managed the Water Use Licence Application Process	Samancor Eastern Chrome Mines	Spitskop	Project Management	M	15 July 2013
WULA	Managed the WULA process	AfriSam	Saldanha	Project Management	M	07 October 2014
WULA	Facilitated the Water use licence amendment process for the Maroeloesfontein operation	Andalusite Resources (Pty) Ltd	Maroeloesfontein	Project Management	M	25 November 2014
WULA	Management of the Water use licence application process	Kingdom Development Company	Kingdom	Project Management	M	26 January 2017
WULA	Drafted the WULAR documentation for the Mooihoek Chrome Mine Water use licence application for water from the Lebalelo water scheme	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	WULA	P	23 March 2018
WULA	Motivation and request for administrative changes to the Grasvally Chrome Mine WUL	Sylvania	Grasvally Chrome mine	WUL Amendment	P	01 July 2018
WULA	Compiled and submitted the WULAR documentation that was submitted for the Mooihoek Chrome Mine Water integrated water use licence	Umnotho we-Sizwe Resources (Sail group)	Mooihoek (Black) Chrome Mine	WULAR	P	23 July 2018
WULA	Compiled documentaton for the WUL amendment of Phoenix (Borehole location change)	Sylvania	Lesedi/Phoenix	WUL Amendment	P	31 December 2018
WULA	Managed the eWULA process for the proposed smelter	Altona Smelting	Altona Smelter	WULA	P	03 June 2019
WULAR	Compiled the Integrated Water and Resource Management plan for Andalusite Resource Maroeloesfontein Mine	Andalusite Resources (Pty) Ltd	Maroeloesfontein	WULAR	M	09 March 2010
WULAR	Compilation of a WULAR for the Water use licence process	Corridor Mining Resources	Fumani Gold Mine	WULAR	M	24 May 2010
WULAR	Review of the water use licence application report	City of Johannesburg	Zola	Review	M	24 February 2011
WULAR	Compilation of a WULAR for Section 21(c) and (i) activities for township development	Nungu Trading 691 (Pty) Ltd	Orchards	WULAR	M	09 December 2011
WULAR	Compilation of the Water Use Licence Application Report	AfriSam	Saldanha	WULAR	M	25 July 2014
WULAR	Review of the WULAR for the new Moeijelijk Chrome Mine	Bauba	Moeijelijk Chrome Mine	Review	M	11 August 2014
WULAR	Review of the Water use registration report	Inkanyiso Trust	Vaalbank	Review	M	02 December 2014
WULAR	Review of the WULAR for the residential development	Crimson King Properties	Mogale Ext 10	Review	M	17 December 2014
WULAR	Review of the WULAR for the development	Avizon (Pty) Ltd	Alra Park	Review	M	13 May 2015
WULAR	Review of the WULAR for the development	Kingdom Development Company	Kingdom	Review	M	26 January 2017
WULAR	Compiled the Water use licence application report for the Jagdlust section	Samancor Eastern Chrome Mines	Jagdlust	WULAR	M	24 March 2017
WULAR	Compiled the WULAR for the water use licence application	Glenover Phosphate	Glenover	Review	P	22 November 2018