



## MARCELLE RADYN

Mr Marcelle Radyn  
Environmental Consultant  
Environmental Management Services  
Digby Wells Environmental

### 1 EDUCATION

BSc(Hons) EM (2009), UINSA  
BSc (2007), University of the Witwatersrand  
Certificates: Integrated Groundwater Management;  
Project Level GHG Accounting  
Organisational Level GHG Accounting

### 2 LANGUAGE SKILLS

English (Excellent)  
Afrikaans (Excellent)  
French (Beginner)

### 3 EMPLOYMENT

August 2012 - present: Environmental Consultant at Digby Wells Environmental, South Africa  
July 2009 - July 2012: Environmental Consultant and surface water specialist at Jones and Wagener Consulting Engineers

### 4 AFFILIATIONS AND MEMEBERSHIPS

Mensa  
International Association for Impact Assessors

### 5 EXPERIENCE

Whilst working at Jones and Wagener Marcelle managed a number of large water use licence applications for many of the biggest mining houses in South Africa. These include Anglo American,

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Directors: A Sing\*, AR Wilke, LF Koeslag, PD Tanner (British)\*, AJ Reynolds (Chairman) (British)\*, J Leaver\*, GE Trusler (C.E.O)

\*Non-Executive

BHP Billiton and Xstrata. An additional requirement of the water use licence is the compilation of an integrated water and waste management plan. This gave Marcelle extensive experience in the compilation and application process of a water use licence as well as the hydraulic process flow of a mine. Due to the conditions of water use licences he has also conducted audits on clients' compliance therewith. Marcelle has also moved into the energy and Greenhouse Gas (GHG) emissions field where he has done GHG emission inventories, audits on emission estimation controls and *ex ante* emission estimations for clients in the mining and power generation industries in western and southern Africa. His work in the energy sector has exposed him to various energy sources and given him the opportunity to evaluate energy on a local scale and assess the impacts globally. In addition Marcelle has also collected and analysed baseline traffic data and compiled traffic impact assessment reports.

## 6 PROJECT EXPERIENCE

### Sustainability and Greenhouse Gas Emissions

Randgold Resources' annual CDP calculations and submission, Aureus Mining and Vendanta Resources *ex ante* emission estimations. GHG footprint reduction initiatives for these projects. Sustainability analyses of Msobo Coal's future operations. Auditing of Randgold Resources' GRI controls.

### Traffic Impact Assessment

Marcelle compiled the baseline traffic impact assessment report for the proposed Putu Iron Ore Mine in Liberia. This was done to World bank standards.

### Environmental Management Programme Report – EMPR

Marcelle has also been involved in the amalgamation of all Optimum Coal's EMPR's as well as managing the Optimum Coal Tweefontein Section's EMPR process. He also compiled and managed the EMPR process for Rhodium Reefs Ltd.

### Environmental Impact Assessment – EIA

Marcelle did the EIA for Rhodium Reefs and was the projected manager for Msobo Coal's Harwar and Consbrey projects. He also did the EIA for Sasol's Syferfontein Controlled release application.

### Integrated Water Use Licence Application – IWULA

Middelburg Water Reclamation Project, Anglo Coal's Goedehoop Colliery Block 9 IWULA, Xstrata Coal South Africa's Southstock complex, Optimum Colliery, Xstrata Coal South Africa's Tselentis and Xstrata Coal South Africa's Atcom East.

### Integrated Water & Waste Management Plan – IWWMP

Middelburg Water Reclamation Project, Anglo Coal's Goedehoop Colliery Block 9 IWWMP, Xstrata South Africa's Tselentis, Goedevonden, Tweefontein and Impunzi Complexes, Koornfontein Mines, Xstrata Coal South Africa's and Anglo Coal's Zondagsfontein Opencast and Underground operations.



Auditing

Marcelle has assisted and lead numerous Water Use Licence and GN704 compliance audits for Anglo American, BHP Billiton and HCI Coal.

Surface Water Specialist Reports

Kriel Colliery, Xstrata Coal South Africa Oogiesfontein Coal Mine and Xstrata Coal South Africa's Atcom East Coal Mine.

Summary of other Experience

Kuyasa Colliery monthly environmental monitoring and Klipsruit Coal Mine - Dam Leakage Investigation