

Arend J Hoogervorst¹

B.Sc.(Hons), MPhil., Pr.Sci. Nat., MEnvSci., C.Env., MIWM

Environmental Audits Undertaken, Lectures given, and Training Courses Presented²

A) AUDITS UNDERTAKEN (1991 – Present)

(Summary statistics at end of section.)

Key

ECA - Environmental Compliance Audit

EMA - Environmental Management Audit

EDDA -Environmental Due Diligence Audit

EA- External or Supplier Audit or Verification Audit

HSEC – Health, Safety, Environment & Community Audit

(SHE) – denotes safety and occupational health issues also dealt with

* denotes AJH was lead environmental auditor

denotes AJH was contracted specialist local environmental auditor for overseas environmental consultancy, auditing firm or client

+ denotes work undertaken as an ICMI-accredited Lead Auditor (Cyanide Code) No of days shown indicates number of actual days on site for audit.

[number] denotes number of days involved in audit preparation and report write up.

1991

*2 day [4] ECA - AECI Chlor-Alkali Plastics, Umbogintwini, KwaZulu-Natal, South Africa. November 1991.

*2 day [4] ECA - AECI Chlor-Alkali Plastics- Environmental Services, Umbogintwini, KwaZulu-Natal, South Africa. November 1991.

*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. November 1991.

1992

*2 Day [4] EA - Waste-tech Margolis, hazardous landfill site, Gauteng, South Africa. February 1992.

*2 Day [4] EA - Thor Chemicals Mercury Reprocessing Plant, Cato Ridge, KwaZulu-Natal, South Africa. March 1992.

2 Day [4] EMA - AECI Explosives Plant, Modderfontein, Gauteng, South Africa. March 1992.

*2 Day [4] EMA - Anikem Water Treatment Chemicals, Umbogintwini, KwaZulu-Natal, South Africa. March 1992.

*2 Day [4] EMA - AECI Chlor-Alkali Plastics Operations Services Group, Midland Factory, Sasolburg. March 1992.

*2 Day [4] EMA - SA Tioxide factory, Umbogintwini, KwaZulu-Natal, South Africa. April 1992.

*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. May 1992.

*2 Day [4] EMA - Kynoch Fertilisers, Umbogintwini, KwaZulu-Natal, South Africa. June 1992.

* 1 Day [2] EMA - Swimline Pool Products, Halfway House, Gauteng. June 1992.

* 1 Day [2] EMA - Dulux Paints, Umbogintwini, KwaZulu-Natal, South Africa. June 1992.

*2 Day [4] EMA - Kynoch Fertilisers, Milnerton, Cape Town, South Africa. July 1992.

¹ Can be contacted at Eagle Environmental, Private Bag X06, KLOOF 3640, South Africa, Tel:- +27 (0)31 7670244, Email:- arend@eagleenv.co.za Websites:- www.eagleenv.co.za ; www.peo-sa.com

² Updated to 5th July 2019.

*2 Day [4] EA - Wadechem Holfontein Hazardous Waste landfill, Springs, Gauteng, South Africa. August 1992.

*2 Day [4] EMA - Dulux Paints, Struandale, Port Elizabeth, Eastern Cape, South Africa. October 1992.

*2 Day [4] ECA - Soda Ash Botswana, Sua Pan, Botswana. November 1992.

*2 Day [4] EMA - South African Nylon Spinners (SANS), Bellville, Cape Town, South Africa. December 1992.

1994

*2 Day [5] ECA - Kellogg South Africa, Springs, Gauteng, South Africa. 18-19 August 1994.

1995

#3 Day [5] EMA - ESKOM (for KPMG), External Environmental Audit, Johannesburg, Gauteng, South Africa, 24-26 July 1995.

1996

* 1 Day [3] ECA - Polifin Mercury Waste Disposal Site, Polifin Factory, Umbogintwini, KwaZulu-Natal, South Africa, 3rd January 1996.

* 1 Day [2] EMA - KwaZulu Finance Corporation Landfill Site, Isethebe, KwaZulu-Natal, 3rd April 1996.

*2 Day [5] EMA/ECA - Robertsons Spices (Knorr), Prospecton, KwaZulu-Natal, South Africa, 12-13th June 1996.

*2 Day [4] EMA (preliminary) - Alpha (Stone & Cement), Western Cape sites, South Africa, 6-7th November 1996.

*3 Day [6] EMA (preliminary) - Alpha (Stone & Cement), Gauteng sites, South Africa, 11-13th November 1996.

*4 Day [8] EMA (preliminary) - Alpha (Stone & Cement), Gauteng sites, South Africa, 18-21st November 1996.

*4 Day [8] EMA (preliminary) - Alpha (Stone & Cement), KwaZulu-Natal sites, South Africa, 25-28th November 1996.

1997

* 1 Day [3] EDDA - Mondi Wattle Processing Plant (for SA Wattle Growers Union), Hermansburg, KwaZulu-Natal, South Africa, 20th February 1997.

* 1 Day [3] EDDA - Mondi Wattle Processing Plant (for SA Wattle Growers Union), Iswepe, Mpumalanga, South Africa, 24th February 1997.

*3 Day [6] EMA (preliminary) - Alpha (Stone & Cement), Cape Town, Kimberley, South Africa, 2-4 April 1997.

*3 Day [6] EMA/ECA - Robertsons Spices (Knorr), Alrode, Gauteng, South Africa, 24-26th June 1997.

#2 Day [4] EDDA/ECA (for Ford Motor Company) - Auto Cable Industries, Brits, Gauteng, South Africa, 30th September - 1st October 1997.

#2 Day [4] EDDA/ECA (for Ford Motor Company) - Auto Cable Industries, Port Elizabeth & East London, Eastern Cape, South Africa, 7th-8th October 1997.

#5 Day [5] EMA - South African Economic Development Fund (for USAID), Johannesburg, Gauteng, South Africa, 8-12 December 1997.

1998

* 1 Day [1] EMA (Pre-audit before corporate EMA) - S C Johnson & Son, Rosslyn, Gauteng, South Africa. 19th January 1998.

*3 day [6] ECA - Kellogg South Africa, Springs, Gauteng, South Africa. 16-18 February 1998.

*6 day [15] ECA - Umgeni Water, Pietermaritzburg and depots throughout KwaZulu-Natal, South Africa, between 20th and 29th April 1998.

* 1 day [1] EDDA (for Richards Bay Bulk Storage) - Island View Bulk Storage Facility, Durban Harbour, KwaZulu-Natal, South Africa, 30th April 1998.

*3 day [6] ECA - South African Breweries, Prospecton, KwaZulu-Natal, South Africa, 8-10 July 1998.

*4 day [8] ECA - Pipeline Permit Compliance Audit - AECI Operational Services, Umbogintwini, KwaZulu-Natal, South Africa, 16-19 November 1998.

1999

#8 day [5] ECA - Environmental Report Verification Audit, Shell & BP refinery, Durban, South Africa. February 1999. Sub-contracted environmental expert to PriceWaterhouseCoopers.

*2 Day [3] ECA - Walkabout Environmental Audit, part of a training programme for employee environmental representatives, Hulett Aluminium, Pietermaritzburg, 3-4th March 1999.

* 5 day [3] EMA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 15-19 November 1999.

* 3 day [1] ECA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 29th November-2 December 1999.

2000

* 3 day [2] ECA - Matola Pesticides Preparation and Waste Station, Maputo, Mozambique. For the Mozambican Ministry of Environmental Affairs & DANIDA, 17th - 21 January 2000

* 2 day [2] EA - Goswell Developments (Dross treatment and disposal), Cato Ridge. Supplier Audit for Hillside Aluminium. 25-26th January 2000.

#3 day [2] EA - Joint, sampled Environmental Data Verification Exercise with PriceWaterhouseCoopers for Shell of Sapref Refinery Durban. January/February 2000

2001

*2 Day [2] Environmental Report Verification Audit, Hillside Aluminium Smelter, Richards Bay. August 2001.

*2 day [2] Environmental Report Verification Audit, Umgeni Water, Pietermaritzburg, South Africa. October 2001

*5 days [2] EMA and review and evaluation of EMP, Morila Gold Mine, Mali, West Africa. 23-27 July 2001

*3 day [2] EA – and development of Aspects and Impacts Register. Yatela Gold Mine, Mali, West Africa, November, 2001

*5 day [3] EMA – Sadiola Gold Mine, Mali, West Africa. Focussing on EMS, Community Development & relations, and Technical aspects of Closure Planning. November 2001

2002

*1 day[1] ECA – DWAF Licence Audit, UOS, Umbogintwini, South Africa. February 2002

* 30 day [10] EMA/ECA – Environmental Audit/Review of the South Africa Region Mining Operations of AngloGold. February-May 2002

2 day [1] EDDA – Somta Tools, Pietermaritzburg, South Africa. May 2002.

*4 day [2] EMA – Navachab Gold Mine, Karibib, Namibia. June 2002

#4 day [2] EDDA – Valley Irrigation, Nigel, South Africa. December 2002

2003

*2 day [2] ECA – Verification of UOS Site SHE/Sustainability Report, Umbogintwini, South Africa. February 2003

* 1 day[1] ECA – DWAF Licence Audit, UOS, Umbogintwini, South Africa. February 2003

*5 day [3] EMA – Metallurgy SA, AngloGold, External Review of implementation of paperless EMS, March 2003

* 1 day [1] EDDA – Close out Audit, Valley Irrigation, Nigel, South Africa. June 2003

2 day [1] EA – Western Chrome Mines (BHP Billiton). South Africa.19-21 August 2003

2 day [1] EA – Ferrometals (BHP Billiton). South Africa.21-22 August 2003

2 day [1] EA – Tubatse Steelpoort (BHP Billiton). South Africa.24-26 August 2003

2 day [1] EA – Middelburg Ferrochrome (BHP Billiton), South Africa. 27-29 August 2003

2004

2 Day [1] EA – South Witbank Colliery (Xstrata), South Africa. 3-4 February 2004

2 Day [1] EA – Wonderkop Chrome Smelter (Xstrata), South Africa. 9-10 February 2004

2 Day [1] EA – Waterval Chrome Mine (Xstrata), South Africa. 11-12 February 2004

*3 Day [1] EA – Sustainability Report Verification, Umbogintwini Industrial Complex, South Africa.- 23-25 March 2004

1 Day [1] EDDA (SHE) – Eastern Chrome Mines (BHP Billiton), South Africa. 15 June 2004

1 Day [1] EDDA (SHE) – Middelburg Ferrochrome (BHP Billiton), South Africa. 17 June 2004

1 Day [1] EDDA (SHE) – Tubatse Chrome Smelter (BHP Billiton), South Africa. 21 June 2004

1 Day [1] EA (Verification- Sustainability Report) – Eastern Chrome Mines (BHP Billiton), South Africa. 12 August 2004

1 Day [1] EA (Verification- Sustainability Report) – Tubatse Chrome Smelter (BHP Billiton), South Africa. 13 August 2004

#1 Day [1] EA (Verification- Sustainability Report) – Middelburg Chrome (BHP Billiton), South Africa. 16 August 2004

#1 Day [1] EA (Verification- Sustainability Report) – Western Chrome Mines (BHP Billiton), South Africa.17 August 2004

#2 Day [0] EA (Witness Audit for potential Responsible Care Auditors) – Omnia, Sandton, South Africa. 21-22

October 2004

*#2 day[1] ECA (EHS Compliance Audit) – Kennametal, Johannesburg, South Africa. 8-9 December 2004

2005

#5 day [0] HSEC (HSEC Baseline Audit) Xstrata Kroondal Chrome Mine, Rustenburg, South Africa. 24-28 January 2005

#5 day [0] HSEC (HSEC Baseline Audit) Xstrata Waterval Chrome Mine, Rustenburg, South Africa. 31 January-4 February 2005

#4 Day [1] EA – Sustainability Report Verification, Umbogintwini Industrial Complex, KZN, South Africa. - 22-25 February 2005

#2 Day [0] EA (Witness Audit for potential Responsible Care Auditors) – Omnia, Sasolburg, South Africa. 16-17 March 2005

*#4 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Tselentis Colliery, South Africa. 2-6 May 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Wonderkop Chrome Smelter, South Africa. 27 June-1 July- 6 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Boshhoek Chrome Smelter, South Africa. 4-8 July-6 2005

*#4 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Lion Chrome Smelter Project, South Africa. 18-22 July 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Goedgevonden/Waterpan Colliery, South Africa. 15-19 August July 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Thorncliffe/Helena Chrome Mines, South Africa. 25-29 July 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Arthur Taylor Colliery, South Africa. 22-26 August 2005

*#3 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Rietvly Silica Mine (Satellite site), South Africa. 19-22 September 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Rhovan Vanadium Mine, South Africa. 24th-28th October 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Charteck/ACG Carbon Plants, South Africa. 14th-18th November 2005

*#5 Day [2] HSEC (HSEC Baseline Audit) – Xstrata Horizon Chrome Mine, South Africa. 21st – 25th November 2005

*3 Day [2] ECA (EMP Performance Assessment) – De Beers Finsch Diamond Mine, South Africa. 11-14 December 2005

2006

*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Lydenburg Chrome Smelter, South Africa. 29th May - 2nd June 2006

*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Mponeng Gold Plant, South Africa. – 12th –14th June 2006

*#6 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Tweefontein Coal Division, South Africa. 19th –23rd

June 2006

*+4 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Savuka Gold Plant, South Africa. – 26th–28th June 2006

*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Naligwa Gold Plant, – 30th June, 1st July, 3rd July 2006 South Africa.

*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – EGAF Gold Plant, South Africa.– 4th-6th July 2006

*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – Kopanang Gold Plant, South Africa. – 7th–8th and 17th July 2006

*+3 Day [1] International Cyanide Code Audit (Gap Analysis) – AngloGold Ashanti – West Wits Gold Plant – South Africa - 18th–20th July 2006

*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Lion Chrome Smelter, South Africa. 24th–28th July – 2006

*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Wonderkop Chrome Smelter, South Africa. 21st–25th August – 2006

*#9 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Mpumalanga Coal Division, South Africa. 10-19th September 2006

*#5 Day [2] HSEC (HSEC Compliance Audit) – Xstrata Horizon Chrome Mine, South Africa. 13-17th November 2006

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Production & Transportation) – Sasol Polymers, Cyanide Plant, Midland Factory, Sasolburg, 20-25th November 2006

2007

*#5 Day [2] International Cyanide Code Audit (Gap Analysis) – Goldfields Ghana Tarkwa Gold Mine –22nd – 26th January 2007

*#4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Abosso Damang Gold Mine – Ghana – 29th January- 1 February 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields South Deep Gold Mine – 12th-16th February 2007

*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River North West Gold Plant, Vaal River, South Africa, 13th-16th March 2007

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River Kopanang Gold Plant, Vaal River, South Africa, 26th – 30th March 2007

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Vaal River East Gold Acid Float (EGAF) Plant, Vaal River, South Africa, 9th -13th April 2007

*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Naligwa Plant, Vaal River, South Africa, 23rd -26th April 2007

*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti, Mponeng Plant, West Wits, South Africa, 8th – 11th May 2007

*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti,

Savuka Plant, West Wits, South Africa, 14th – 17th May 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Beatrix 1 Gold Plant (Gold Mine) – South Africa – 3rd – 6th July 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Beatrix 2 Gold Plant (Gold Mine) – South Africa – 9th – 12th July 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein 1 Gold Plant (Gold Mine) – South Africa – 24th – 27th July 2007

*#5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields St Ives Gold Plant (Gold Mine) – Kambalda, WA, Australia – 6th – 10th August 2007

*#5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Agnew Gold Plant (Gold Mine) – South Africa – 13th – 17th August 2007

*#3 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Ghana Tarkwa Gold Mine, Tarkwa, Ghana – 27th – 29th August 2007

*#2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Abosso Damang Gold Mine, Ghana – 30th – 31st August 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Kloof 1 Gold Plant (Gold Mine) – South Africa – 11th – 14th September 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Kloof 2 Gold Plant (Gold Mine) – South Africa – 17th – 20th September 2007

10 day [2] EMA/ECA – Corporate Environmental Review Programme (CERP) of the West Wits Region of South Africa Underground Mining Operations of AngloGold Ashanti. 25th September – 4th October 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein No 2 Gold Plant (Gold Mine) – South Africa – 8th – 12th October 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Goldfields Driefontein No 3 Gold Plant (Gold Mine) – South Africa – 15th – 19th October 2007

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony No 1 Gold Plant (Gold Mine) Welkom – South Africa – 29th October – 2nd November 2007

*#4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Morila Gold Mine , Mali – 19th – 22th November 2007

*#3 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Yatela Gold Mine , Mali – 24th – 26th November 2007

*#4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Sadiola Gold Mine , Mali – 26th – 29th November 2007

2008

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Goldfields Abosso Damang Gold Mine, Ghana, 14th – 18th January 2008

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Ghana Tarkwa Gold Mine, Tarkwa, Ghana, 21st – 25th January 2008

*#5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Navachab Gold Mine Namibia – 4th – 8th February 2008

*#6 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Geita Gold Mine, Tanzania – 1⁵th – 20th February 2008

*+4 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony Doornkop Gold Mine, South Africa – 25th – 29th February 2008

*#5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Iduapriem Gold Mine, Ghana – 9th – 13th March 2008

*#4 Day [2] International Cyanide Code (ICMI) Compliance Audit (Transportation) – Vehrad Transport & Haulage Company, Accra, Ghana, 17th – 20th March 2008

*+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Beatrix 1 & 2 Gold Plants, South Africa – 31st March – 4th April 2008

*+3 Day [3] International Cyanide Code Audit (Pre-audit) – Goldfields South Deep Gold Plants South Africa – 7th – 9th April 2008

*+6 Day [3] International Cyanide Code Audit (Pre-audit) – Goldfields Driefontein 1,2 and 3 Gold Plants, South Africa – 16th – 24th April 2008

*+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Kloof 1 & 2 Gold Plants South Africa – 5th – 9th May 2008

*#2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields St Ives Gold Plant, Australia 19th – 21st May 2008

*+2 Day [1] International Cyanide Code Audit (Pre-audit) – Goldfields Agnew Gold Plant, Australia 21st – 24th May 2008

*#5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region, Siguiri Gold Mine, Guinea. 2nd – 6th June 2008

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Central Gold Plant, South Africa. 9th – 13th June 2008

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Kalgold Gold Plant, South Africa. 16th – 20th June 2008

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Evander Gold Plant, South Africa. 23rd – 27th June 2008

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields South Deep Gold Mine, South Africa, 30th June – 4th July 2008

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Beatrix 2 Gold Plant, South Africa, 4th – 11th July 2008

*#5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Beatrix 1 Gold Plant, South Africa, 21st – 25th July 2008

*#12 Day [3] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Driefontein 1,2 & 3 Gold Plants, South Africa, 4th – 20th August 2008

*#8 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region, Obuasi Gold Mine, Guinea. 25th – 2nd September 2008

*#+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields St Ives Gold Plant, Australia. 8th – 12th September 2008

*#+5 Day [2] International Cyanide Code Audit (Pre-audit) – Goldfields Agnew Gold Plant, Australia. 1 5th – 1 9th September 2008

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Kloof 1 Gold Plant, South Africa, 29th September – 3rd October 2008

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) - Goldfields Kloof 2 Gold Plant, South Africa, 29th September – 3rd October 2008

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Siguiri Gold Mine , Guinea. 20th – 24th October 2008

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Yatela Gold Mine , Mali. 27th – 31st October 2008

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Sadiola Gold Mine , Mali. 3rd – 7th November 2008

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – AngloGold Ashanti Africa Region, Navachab Gold Mine , Namibia. 1 7th – 21st November 2008

2009

*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Obuasi Gold Mine, Ghana – 4th – 10th January 2009

*#+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – AngloGold Ashanti Africa Region Iduapriem Gold Mine, Ghana – 11th – 15th January 2009

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Target Gold Plant , South Africa. 9th – 13th February 2009

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Saaiplaas Gold Plant , South Africa. 16th – 20th February 2009

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Target Gold Plant , South Africa. 9th – 13th February 2009

*3 Day [2] EDDA Audit – Petroleum Fine Products, Pinetown, South Africa – 23rd -24th February 2009 & 2nd April 2009

*#+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Production & Transportation) – Sasol Polymers, Cyanide Plant, Midland Factory, Sasolburg, South Africa. 7th – 11th September 2009

*+ 6 Day [2] ECA Third Party Cyanide Spill Investigation Review, Newmont, Ghana. 21st -25th November 2009.

2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Elandsrand Gold Plant, South Africa – 18th – 22nd January 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony One Plant (Gold Mine), South Africa – 25th – 29th January 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Target Plant (Gold Mine), South Africa – 8th – 12th February 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Central Plant (Gold Mine), South Africa – 15th – 19th January 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony One Plant (Gold Mine), South Africa – 25th – 29th January 2010

*+5 Day [2] International Cyanide Code (ICMI) Audit (Gap Analysis) – Harmony, Kalgold Gold Plant, South Africa. 1st – 5th March 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Saaiplaas Plant (Gold Mine), South Africa – 8th – 12th March 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Evander-Kinross Plant (Gold Mine), South Africa – 15th – 19th March 2010

*+5 Day [2] International Cyanide Code (ICMI) Compliance Audit (Gold Mine) – Harmony Doornkop Plant (Gold Mine), South Africa – 12th – 16th April 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Kopanang Gold Plant, South Africa, 10th – 14th May 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, EGAF Gold Plant, South Africa, 17th – 21st May 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Nologwa Gold Plant, South Africa, 31st May – 4th June 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Mponeng Gold Plant, South Africa, 7th – 11th June 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Savuka Gold Plant, South Africa, 28th June – 2nd July 2010

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, West Gold Plant, South Africa, 5th – 9th July 2010

*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, South Deep Gold Plant, South Africa, 2nd – 4th August 2010

*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Tarkwa Gold Mine, Ghana, 6th – 8th August 2010

*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Damang Gold Mine, Ghana, 9th – 10th August 2010

*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Beatrix 1 & 2 Gold Plants, South Africa, 13th – 15th August 2010

*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Driefontein 1, 2 & 3 Gold Plants, Ghana, 27th September – 1st October 2010

*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Newmont, Ahafa Mine, Ghana, 11th - 15th October 2010

*+5 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) and OHSAS 18001/ISO 14001 Gap Analysis – Vehrad Transport & Haulage, Accra, Ghana, 18th – 22nd October 2010.

*+4 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Kloof 1 and 2 Gold Plants, South Africa, 15th – 18th November 2010.

2011

*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Tulawaka Gold Mine, Tanzania, 21st – 25th February 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont, Ahafo Gold Mine, Ghana, 7th – 11th March 2011.

*#+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Transportation) – Vehrad Transport & Haulage Company, Accra, Ghana, 14th – 17th March 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Damang Gold Mine, Ghana, 2nd – 6th May 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Tarkwa Gold Mine, Ghana, 9th – 15th May 2011.

*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Bulyanhulu Gold Mine, Tanzania, 1st – 4th June 2011.

*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Barrick Africa, Buzwagi Gold Mine, Tanzania, 6th – 10th June 2011.

*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, St. Ives Gold Mine, Australia, 4th – 6th July 2011

*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – Gold Fields, Agnew Gold Mine, Australia, 6th – 8th July 2011

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Barrick Africa Tulawaka Gold Mine, Tanzania, 18th – 22nd July 2011.

*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Sadiola Gold Mine, Mali, 8th – 10th August 2011

*#+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Siguirri Gold Mine, Guinea Conakry, 3rd – 5th September 2011

*#+5 Day [1] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti, Iduapriem Gold Mine, Ghana, 3rd – 7th October 2011.

*#+3 Day [2] International Cyanide Code (ICMI) Certification Audit (Transportation) – Tanker Services Specialised Products Division, Vanderbijlpark, South Africa, 12th – 14th October 2011.

*#+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine) – AngloGold Ashanti, Navachab Gold Mine, Namibia, 18th – 20th October 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields South Deep Gold Mine, South Africa, 24th – 28th October 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Beatrix Gold Mine, South Africa, 7th – 11th November 2011.

*#+5 Day [2] International Cyanide Code (ICMI) Pre-Recertification Audit (Gold Mine) – African Barrick Gold – North Mara Mine, Tanzania, 21- 25 November 2011.

*#+3 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti – Geita Mine, Tanzania, 8 – 12 December 2011.

2012

*#5 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – AngloGold Ashanti – Obuasi Mine, Ghana, 16 – 20 January 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – African Barrick Gold Bulyanhulu Mine, Tanzania, 9 – 13 February 2012.

*#9 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine), Gold Fields KDC West Gold Mine (Formerly Driefontein Gold Mine, incorporating Driefontein 1, 2 and 3 Gold Plants) South Africa, 27th February – 6th March 2012

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Kusalethu Mine, South Africa, 7 – 8 March 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony One Plant Mine, South Africa, 28th - 29th March 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Target Mine, South Africa, 12 – 13 April 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Saaiplaas Mine, South Africa, 16 – 17 April 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Goldfields St Ives Mine, W. Australia, 23rd – 27th April 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Goldfields Agnew Mine, W. Australia, 30th April – 4th May 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – African Barrick Gold – North Mara Mine, Tanzania, 14th – 18th May 2012.

*#3 Day [1] SASOL Polymers International Cyanide Code (ICMI) Pre-Recertification Audit (Production) – Sasolburg, South Africa, 23rd – 25th May 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Yatela Mine, Mali, 5 – 9 June 2012.

*#1 Day [2] International Cyanide Code (ICMI) review and briefing for cyanide transportation and solid cyanide storage facility, CSTT, Kedougou, Senegal 10 June 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Gold Fields Kloof Gold Mine, South Africa, 18th – 22nd June 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Central Mine, South Africa, 28th – 29th June 2012.

*#5 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 2nd – 6th July 2012.

*#3 Day [2] International Cyanide Code (ICMI) Production Audit, Cyanide and Sparging, Vehrad Transport & Haulage Co Ltd, (Production) - Accra, Ghana, 11th – 13th July 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony Evander Mine, South Africa, 6th & 7th August 2012.

*#2 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Harmony, Doornkop Mine, South Africa, 9th – 10th August 2012.

*#5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Sadiola Mine, Mali 5th – 9th November 2012.

*+ 8 Days [6] International Cyanide Code (ICMI) Pre-Audit “Health Checks” 8 sites, AngloGold Ashanti, South Africa, 26th November – 7th December 2012.

2013

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Siguirri Gold Mine, Guinea Conakry, 28th January – 2nd February 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – African Barrick Gold, Buzwagi Gold Mine, Tanzania, 18th February – 22nd February 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti, Navachab Mine, Namibia, 11th – 15th March 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – Harmony, Joel Gold Mine, South Africa, 8th – 12th April 2013.

*+4 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Amar Gold Mine, Saudi Arabia, 20th – 23rd April 2013.

*+ 4 Days [2] International Cyanide Code (ICMI) Pre-Audit “Health Check” Newmont Ahafo Gold Mine, Ghana, 6th – 8th May 2013.

*+3 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Mahad Gold Mine, Saudi Arabia, 16th – 18th May 2013.

*+6 Day [2] International Cyanide Code (ICMI) Gap Analysis Audit (Gold Mine) – Ma’Aden Gold & Base Metals, Bulgah & Sukhaybarat Gold Mines, Saudi Arabia, 20th – 25th May 2013.

*+4 Day [2] International Cyanide Code (ICMI) Health Check - Transportation – Vehrad Haulage and Transport, Ghana, 15th – 19th July 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Evander Gold Mine, South Africa, 26th – 30th August 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Kusasalethu Gold Mine, South Africa, 9th – 13th September 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony One Gold Plant, South Africa, 16th – 20th September 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Target Gold Mine, South Africa, 30th September – 4th October 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Saaiplaas Gold Plant, South Africa, 7th – 11th October 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Central Gold Plant, South Africa, 21st – 25th October 2013.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony, Doornkop Gold Mine, South Africa, 4th – 8th November 2013.

*#+6 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti, Obuasi Gold Mine, Ghana, 18th – 23rd November 2013.

2014

*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals, Al Amar Gold Mine, Saudi Arabia, 11th January 2014.

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*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Mahad Gold Mine, Saudi Arabia, 13th January 2014.

*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Sukhaybarat Gold Mine, Saudi Arabia, 15th January 2014.

*+1 Day [1] International Cyanide Code (ICMI) Pre-audit (Gold Mine) – Ma’Aden Gold & Base Metals , Al Bulgah Gold Mine, Saudi Arabia, 16th January 2014.

*#+2 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) follow-up – African Barrick Gold, Buzwagi Gold Mine, Tanzania, 5th – 6th February 2014.

*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Goldfields, Tarkwa Mine, Ghana, 1st – 5th March 2014.

*+2 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), Goldfields, Damang Mine, Ghana, 6th – 8th March 2014.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Iduapriem Mine, Ghana, 8th – 13th March 2014.

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont Ahafo Gold Mine, Ghana, 12th – 16th May 2014.

*#+3 Day [2] International Cyanide Code (ICMI) Production Audit, No 2 Repackaging Plant and Incinerator, Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 21st – 23rd May 2014.

*#+3 Day [2] International Cyanide Code (ICMI) Certification Audit (Transportation Consignor) – Ma’Aden Gold & Base Metals, Jeddah, Saudi Arabia, 16th – 19th June 2014.

*4 Day ECA [2] 1st Quarter Stream Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 1st – 4th July 2014.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Yatela Mine, Mali, 14th – 16th July 2014.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” (Gold Mine), AngloGold Ashanti, Sadiola Mine, Mali, 17th – 20th July 2014.

*2 Day ECA [1] 2nd Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9th – 10th September 2014.

*2 Day ECA [1] Disposing of Waste Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 28th – 29th October 2014.

*2 Day ECA [1] Impending the Flow of Water in a Watercourse (Ash dump) Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 30th – 31st October 2014.

*+3 Day [2] International Cyanide Code (ICMI) Gap audit (Gold Mine), AngloGold Ashanti, Geita Mine, Tanzania, 10th – 13th November 2014.

2 Day ECA [1] Impending the Flow of Water in a Watercourse Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9th – 10th December 2014.

*2 Day ECA [1] 3rd Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 11th - 12th December 2014.

2015

*2 Day ECA [1] 4th Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 2nd -3rd March 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – AngloGold Ashanti, Siguiri Gold Mine, Guinea, 10th – 12th March 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 21-23 April 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 18th – 20th May 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony No 1 Plant, Welkom, South Africa, 25th – 27th May 2015.

*2 Day ECA [1] 1st Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 9th – 10th June 2015.

*+4 Day [2] International Cyanide Code (ICMI) Gap audit, (Gold Mine) – Maaden Gold and Base Metals Ad Duwahyi and As Suq Gold Mines, Saudi Arabia, 12th to 17th June 2015

*#+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia Bulyanhulu Gold Mine, Tanzania, 29th June – 3rd July 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Acacia North Mara Gold Mine, Tanzania, 24th – 27th August 2015.

*2 Day ECA [1] 2nd Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 8th - 9th September 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Target Plant, Welkom, South Africa, 5th – 7th October 2015.

*+2 Day [1] International Cyanide Code (ICMI) Gap audit (Gold Mine) – Harmony Target Backfill Plant, Welkom, South Africa, 8th – 9th October 2015.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Kusasalethu Gold Plant, Carletonville, South Africa, 13th – 15th October 2015.

*2 Day ECA [1] Disposing of Waste Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 20th – 21st October 2015.

*2 Day ECA [1] Impeding the flow of water in a water course Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 22nd – 23rd October 2015.

*+3 Day [2] International Cyanide Code (ICMI) Recertification audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 16th – 18th November 2015.

*#+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti Iduapriem Gold Mine, Ghana, 30th November – 4th December 2015.

*#+3 Day [1] International Cyanide Code (ICMI) C Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – AngloGold Ashanti Obuasi Gold Mine, Ghana, 7th – 9th December 2015.

*2 Day ECA [1] Impeding the flow of water in a water course (Armcor, Ash Dirty Dam and a Station Dirty Dam interconnector pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 14th -15th December 2015.

*2 Day ECA [1] 3rd Quarter Diversion & Pipeline Water Use Licence Compliance Audit, ESKOM Kusile Power Station (under construction), subcontracted to SiVest Environmental, 17th - 18th December 2015.

2016

*+5 Day [2] International Cyanide Code (ICMI) Certification Audit (Gold Mine) – AngloGold Ashanti Geita Gold Mine, Tanzania, 24th – 30th January 2016.

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia North Mara Gold Mine, Tanzania, 1st – 5th February 2016.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Doornkop Plant, Krugersdorp, South Africa, 17th – 19th February 2016.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Harmony Central Plant, Welkom, South Africa, 22nd – 24th February 2016.

*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Repackaging Plant-Production and Transportation) – Vehrad Transport & Haulage, Accra, Ghana, 25th – 28th July 2016.

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Harmony Joel Gold Mine, South Africa, 3rd – 7th October 2016.

*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Newmont Akyem, Ghana, 21st – 24th November 2016.

2017

*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Acacia Buzwagi Gold Mine, Tanzania, 30th January – 2nd February 2017.

*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Ma’Aden Gold & Base Metals Al Amar Gold Mine, Saudi Arabia, 25th -27th April 2017.

*+3 Day [1] International Cyanide Code (ICMI) Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Ad Duwayhi Gold Mine, Saudi Arabia, 29th April – 1st May 2017.

*+4 Day [2] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals As Suq Gold Mine, Saudi Arabia, 2nd – 5th May 2017.

*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Mahad Gold Mine, Saudi Arabia, 6th – 7th May 2017.

*+3 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Sukhaybarat Gold Mine, Saudi Arabia, 9th – 11th May 2017.

*+2 Day [1] International Cyanide Code (ICMI) Pre-Audit, Gap audit (Gold Mine) – Ma’Aden Gold & Base Metals Bulgah Gold Mine, Saudi Arabia, 13th – 14th May 2017.

*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Nologwa Gold Plant, South Africa, 6th – 9th June 2017.

*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti West Gold Plant, South Africa, 12th – 15th June 2017.

*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Kopanang Gold Plant, South Africa, 16th and 19th– 21st June 2017.

*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Mponeng Gold Plant, South Africa, 26th – 29th June 2017.

*+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – AngloGold Ashanti Savuka Gold Plant, South Africa, 29th June and 3rd – 5th July 2017.

*+5 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Acacia Buzwagi Gold Mine, Tanzania, 17th – 21st July 2017.

*#+4 Day [2] International Cyanide Code (ICMI) Transport Recertification Audit, Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 14th – 17th August 2017.

*#+4 Day [2] International Cyanide Code (ICMI) Production Recertification Audit, No 1 and No 2 Repackaging Plant and Incinerator Complex – Vehrad Transport & Haulage Co Ltd, Accra, Ghana, 18th - 21st August 2017.

*#+3 Day [2] International Cyanide Code (ICMI) Transport/Consignor Recertification Audit – Ma’aden Gold and Base Metals, Jeddah, Saudi Arabia, 4th – 7th December 2017.

2018

*#+4 Day [2] International Cyanide Code (ICMI) Recertification Audit (Gold Mine) – Newmont Akyem Gold Plant, Ghana, 29th January – 2nd February 2018.

*+3 Day [2] International Cyanide Code (ICMI) Pre-Audit, mid-term, “Health Check” audit (Gold Mine) – Geita Gold Mine, Geita, Tanzania, 20th - 22nd March 2018.

*+5 Day [2] International Cyanide Code (ICMI) Recertification audit, (Gold Mine) – Ma’aden Gold and Base Metals Al Amar Gold Mine, Saudi Arabia, 8th - 12th April 2018.

*+3 Day [2] International Cyanide Code (ICMI), mid-term, “Health Check” audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 18th – 20th April 2018.

*#+3 Day [2] International Cyanide Code (ICMI) mid-term “Health Check” audit (Gold Mine) – AngloGold Ashanti Siguiri Gold Mine, Guinea, 30th July – 3rd August 2018.

*#+5 Day [2] International Cyanide Code (ICMI) mid-term “Health Check” Audit (Gold Mine) – Acacia Bulyanhulu Gold Mine, Tanzania, 22nd – 26th June 2018.

*#+3 Day [2] International Cyanide Code (ICMI) mid-term “Health Check” Audit (Gold Mine) AngloGold Ashanti Iduapriem Gold Mine, Ghana, 3rd – 5th July 2018.

*#+2 [2] Day International Cyanide Code (ICMI) Pre-Operational Transport Audit, MBH Hauliers, Johannesburg, South Africa, 20th -21st August 2018.

*#+4 Day [2] International Cyanide Code (ICMI) mid-term “Health Check” Audit (Gold Mine) – Acacia North Mara Gold Mine, Tanzania, 15th – 18th October 2018.

*+4 Day [2] International Cyanide Code (ICMI), Recertification audit (Production) – Sasol No 1 and No 2 Cyanide Plants, Sasolburg, South Africa, 5th – 8th November 2018.

2019

*+5 Day [2] International Cyanide Code (ICMI) Recertification audit, (Gold Mine) – AngloGold Ashanti Iduapriem Gold Mine, Ghana, 4th – 8th March 2019.

*+4 Day [2] International Cyanide Code (ICMI) Recertification audit, (Gold Mine) – AngloGold Ashanti Sadiola Gold Mine, Mali, 15th – 18th April 2019.

*+5 Day [2] International Cyanide Code (ICMI) Recertification audit, (Gold Mine) – AngloGold Ashanti Siguiri Gold Mine, Guinea, 7th – 11th May 2019.

*+5 Day [2] International Cyanide Code (ICMI) Recertification audit, (Gold Mine) – AngloGold Ashanti Geita Gold Mine, Tanzania, 27th – 31st May 2019.

Formalised Career audits – 365 (since November 1991)

No of audit days on site – 1227 days

Total days involved in audits – 1819 days

Informal audits (for SMEs) based on walkabouts, desk studies, etc - approximately 70 (basically one day walkabout audits with managers) thus an additional 70 days, equivalent.

B) LECTURES PRESENTED

Hoogervorst A J (1991) "Environmental Auditing: The Missing Link in Business Management" presented at the AUDIT Environmental Briefing for Business & Industry Conference, Midrand, Johannesburg, 11 November 1991.

Hoogervorst A J (1993) "Successful Post Audit Procedures: gaining Company-wide Commitment to the Environmental Enhancement of your Organisation" presented at a Conference on Corporate Environmental Liability & Auditing, 19-21 July 1993, Sandton, Johannesburg.

Hoogervorst A J (1995) "Environmental Auditing: A Tool for Improvement, Evaluation, and Environmental Training and Awareness" presented at the South African Institute of Civil Engineers' Congress "Engineering our Environment", 11-13 April 1995, Port Elizabeth.

Hoogervorst A J (1995) "Environmental Auditing-the Multi-functional Tool for Proactive Managers", presented at Noshcon/Noshtex '95 (National Occupation Safety Association Annual Congress), 17 May 1995, Kempton Park.

Hoogervorst A (1997) "Workshop on Conducting Environmental Audits and Reporting the Result" presented at a Conference on "Conducting and Managing Environmental Audits", 23-24 October 1997, at the Indaba Hotel, Fourways.

Hoogervorst A (1998) "Utilising Environmental Audit Results as a Multi-functional Aid to Management and for the Identification of Compliance Strengths and Weaknesses", presented at the 4th Annual "Environmental Management Solutions Africa '98" Conference, 22-23 April 1998, at the Indaba Hotel, Fourways.

Hoogervorst A (2003) "Opportunities and Threats for Responsible Care", presented at the 3rd Joint CEFIC and FECC Responsible Care Conference, Dedeman Hotel, Istanbul, Turkey.

Hoogervorst A (2004) "Practical guidelines on corporate sector implementation of sustainable development (triple bottom line) principles", presented at "IQPC Enviro-legal Compliance for Sustainable Business Conference 2004", 23-25 February 2004, Park Hyatt Hotel, Rosebank, Johannesburg.

Hoogervorst A (2004) Workshop – "Practical Guidelines for Effective Environmental & Sustainability Reporting in Your Organisation", presented at "IQPC Enviro-legal Compliance for Sustainable Business Conference 2004", 23-25 February 2004, Park Hyatt Hotel, Rosebank, Johannesburg.

Hoogervorst A (2004) "Best Environmental Practice – The Realities for Successful Application", presented at MarcusEvan Conference, "Best Environmental practices", 28-30 July 2004, Vineyard Hotel, Cape Town.

Hoogervorst A (2004) One Day Workshop – "Practical Toolkit for Achieving Economic, Social and Environmental "Triple Bottom Line" Profits and applying Best Environmental Practice", presented at MarcusEvan Conference, "Best Environmental Practices", 30 July 2004, Vineyard Hotel, Cape Town.

Hoogervorst A (2009) Keynote Address – “Environmental and sustainability aspects of gold mining with particular reference to the integrating influences of cyanide code compliance”, presented at the World Gold Conference, 2009, 26th – 30 October 2009, Misty Hills, Cradle of Humankind, Gauteng, South Africa.

Hoogervorst A (2009) Gold Processing Workshop, 26th October 2009, Presentation, “International Cyanide Management Institute (ICMI) Cyanide Code: An auditor perspective”, at World Gold Conference, 2009, 26th – 30 October 2009, Misty Hills, Cradle of Humankind, Gauteng, South Africa.

Hoogervorst A (2010) “Bridging the Gap between BC (Before Code) and AD (After Decision) Code Compliance – Dilemmas and Developments observed in Audits”, presented at 2010 International Cyanide Code Conference, 13th July 2010, Wyndham Jacksonville Riverwalk Hotel, Jacksonville, Florida, USA.

Hoogervorst A (2012) 4 Day International Summer School on “Life Cycle Approaches to Sustainable Regional Development”, 28th – 31st August 2012, Salento University, Lecce, Italy. Presented paper on "Sustainability: Pipe Dream or Practicality?" and facilitated interactive workshop (including role plays) on “Understanding when and why to use sustainability: case studies”.

Hoogervorst A (2014) “Cyanide Code Auditing – Perspectives on Voluntary Industry Code Auditing”, presented at the 17th Annual Southern African Auditor Training Certification Authority (SAATCA) International Conference, CSIR International Conference Centre, Pretoria, 27-29th August 2014

C) OPEN (O) & IN-HOUSE (I-H) TRAINING COURSES PRESENTED

10 Day Environmental Auditing & Management Training Course, Orapa Diamond Mine, Orapa, Botswana, 13-22 February 1996. 15 delegates (I-H)

Two Day Environmental Auditing Training Course, Umgeni Water, Durban, KwaZulu-Natal, 28th November and 2nd December 1997. 19 delegates (I-H)

Half Day Environmental Auditing Training (informal) for staff of the Southern African Enterprise Development Fund, Johannesburg, Gauteng, South Africa. 5th December 1997. 9 delegates (I-H)

Two Day Environmental Auditing Training Course, Umgeni Water, Durban, KwaZulu-Natal, 29th January and 3rd February 1998. 16 delegates (I-H)

Half Day Crash Course in Environmental Auditing Techniques for Environmental Professionals (Techniques & Methodologies), Westville Hotel, Westville, KwaZulu-Natal, 30th January 1998. 15 delegates (O)

One Day Crash Course on Environmental Auditing, Woodstock Holiday Inn, Cape Town, 14th May 1998. 25 delegates (O)

One Day Crash Course on Environmental Auditing, Woodstock Holiday Inn, Cape Town, 30th July 1998. 13 delegates (O)

One Day Crash Course on Environmental Auditing, Rob Roy Hotel, Botha’s Hill, KwaZulu-Natal, 1st October 1998. 12 delegates (O)

Half Day Crash Course in Environmental Auditing Techniques for Environmental Professionals (Techniques & Methodologies), Rob Roy Hotel, Botha’s Hill, KwaZulu-Natal, 20th November 1998. 13 delegates (O)

One Day Crash Course on Environmental Auditing, Woodstock Holiday Inn, Cape Town, 26th November 1998. 12 Delegates (O)

Polifin In-house, One Day Crash Course on Environmental Auditing, Polifin Training Centre, Polifin factory, Umbogintwini, 10th December 1998. 19 delegates (I-H)

One Day Crash Course on Environmental Auditing, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 17th March 1999. 14 delegates (O)

One Day Crash Course on Environmental Auditing (Methods & Techniques), Continuing Engineering Education, University of the Witwatersrand, 20th April 1999. 19 delegates (O)

One Day Crash Course on Environmental Auditing, Rob Roy Hotel, Botha's Hill, KwaZulu-Natal, 25th August 1999. 13 delegates (O)

3 Day Environmental Auditing Course, (University accredited) Masters' degree students, Centre for Environment & Development, University of Natal (Pietermaritzburg). 20-22nd September 1999. 21 students. (I-H)

One Day Crash Course on Environmental Auditing (Methods & Techniques), Continuing Engineering Education, University of the Witwatersrand, 20th October 1999. 29 delegates (O)

Three Day Environmental Auditing Training Course (Methods & Techniques), for Verde-Azul & Afridev Holdings, in Maputo, Mozambique from 13-16 November 1999. 6 delegates. (I-H)

Two Hour Introductory Course on Environmental Auditing to the Environmental Quality and EIA Divisions of MICOA (Mozambican Ministry for Environmental Coordination) 2 December 1999, Maputo, Mozambique. (I-H) 12 officials

5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2000, 15 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2001, 19 delegates (O and I-H)

2 Day Environmental Auditing Training Course (including a "Virtual" audit exercise and role play), Centre for Continuing Engineering Education, University of the Witwatersrand, Johannesburg, 13-14 February 2002, 20 delegates (O)

5 Day Environmental Auditing Methods & Techniques Course for Master Degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2002, 21 delegates (O and I-H)

2 Day Environmental Auditing Training Course (including a "Virtual" audit exercise and role play), Rob Roy Hotel, Botha's Hill, Durban, 24-25 July 2002, 8 delegates (O)

5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2002, 27 delegates (O and I-H)

2 Day Management Environmental Training Course (including audit & "Virtual Audit" Training), Toyota South Africa, Prospecton. 27-28 November 2002. (I-H) 17 delegates

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2003, 21 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), June 2002, 15 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2003, 21 delegates (O and I-H)

2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play), Victoria Junction Protea Hotel, Cape Town, 7-8 May 2003, 9 delegates (O)

2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play), Rob Roy Hotel, Botha’s Hill, Durban, 5-5 August 2003, 14 delegates (O)

5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2003, 7 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), March 2004, 21 delegates (O and I-H)

2 Day Environmental Auditing Training Course (including a “Virtual” audit exercise and role play), Rob Roy Hotel, Botha’s Hill, Durban, 27-28 October 2004, 8 delegates (O)

5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), November 2004, 20 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 20-24 June 2005, 21 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Land Information Management students from Dept Land Affairs, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 31 October – 4 November 2005, 11 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 22-26 May 2006, 16 delegates (O and I-H)

5 Day Environmental Auditing Methods & Techniques Course for Masters degree students, (University accredited) Centre for Environment & Development, University of Durban (Pietermaritzburg Campus), 2 1-25 May 2007, 7 delegates (I-H)

Hoogervorst A (2008) – “Auditing to Police or Auditing to Improve? - Perspectives on Human Behaviour, Change Management, and Continuous Improvement”, presented to CEAD Masters students, University of Kwazulu-Natal, Pietermaritzburg, 14th April 2008, 5 delegates (I-H)

5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course, The Golden Tulip Hotel, Accra, Ghana, 16th -20th November 2009, 17 delegates (O)

5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course, Goldfields Academy, “Bull Ring”, Goldfields Kloof Mine, South Africa, 1st – 5th February 2010, 19 delegates (I-H)

5 Day Environmental Auditing Techniques & Methodologies (with reference to the Cyanide Code) Course, Goldfields-Abosso Damang Mine, Ghana, 19th – 23rd April 2010, 12 delegates (I-H)

Cyanide Code Training Course, 3 x 3 hour sessions, Newmont Ahafo Gold Mine, Ghana, 19th – 23rd April 2010, with D Viljoen. 36 delegates (I-H)

4 Day Cyanide Code Training Course, Gold Fields, Tarkwa Mine, Ghana, 22nd – 26th October 2012. With D Viljoen. 27 delegates (I-H)

4 Day Cyanide Code Training Course, AngloGold Ashanti Continental Africa, Dakar, Senegal, 29th July – 1st August 2013. With D Viljoen. 21 delegates (I-H)

1 Day Cyanide Awareness Training Course, Alistair Logistics, Dar es Salaam, Tanzania. 4th December 2013, 39 delegates (IH)

1 Day Course – “Practical Environmental Compliance: An Interactive Workshop for Commerce & Industry”, jointly with Vicki King of Metamorphosis Environmental, The Swan Room, Westville Country Club, Westville, KZN, 17th March 2015. 12 delegates (O)

2 Day Cyanide Code Training Course, Vehrad Transport & Haulage Training Centre, Accra, Ghana, 29th – 30th July 2016. 23 delegates.

3 Day Cyanide Code Training Course & Transport Recertification Support, Alistair James Company (Transporters), Dar es Salaam, Tanzania, 16th – 18th January 2017. 10 delegates

2 Day Cyanide Code Training Course, AngloGold Ashanti Siguirri Gold Mine, Guinea. 3rd-4th August 2018. 17 delegates

Total hours of training presented since February 1996 - 1152 hours.

Number trained – 868

D) UNIVERSITY TRAINING PRESENTED

External Lecturer - Environmental Auditing Module, (1996,1997,1998,1999, 2000, 2003) for the University of Natal (Durban campus) B.Sc. Environmental Sciences course, second year students. (1st undergraduate Environmental Auditing course presented at a University in South Africa)

External Lecturer – Environmental Auditing, 5 day module (accredited) for Masters Degree course in Environment and Development, Centre for Environment & Development, University of Natal (Pietermaritzburg) (1999, 2000, 2001, 2002, 2003,2004, 2005,2006, 2007)

E) MISCELLANEOUS

Verification Auditor and Evaluator (1998/9) EMS Auditor Certification Scheme for South Africa by the Southern African Auditor and Training Certification Association (SAATCA)

Witness Auditor (2005), Checking Systems Auditors for competency to undertake Third Party Verification Audits of Responsible Care. Undertaken for the Chemical and Allied Industries Association (CAIA), South African national custodians of Responsible Care

Certified Principal Auditor (Environmental Management Systems) (2006) Certified with RABQSA International (now Exemplar Global), P O Box 347, Penrith BC NSW 2751 Australia. Certificate No 12529, valid from May 2006 to May 2019

Certified Lead Auditor (Environmental Management Systems) (2017) Certified with RABQSA International (now Exemplar Global), P O Box 347, Penrith BC NSW 2751 Australia. Certificate No 12529, valid from September 2017 to May 2019

Approved Lead Auditor (2006) for certification Audits under the **International Cyanide Management Code** (Code) authorized to audit gold mines, cyanide producers and cyanide transporters for compliance with the Code by the International Cyanide Management Institute (ICMI). www.cyanidecode.org/pdf/AuditorList.pdf

Approved Production Auditor (2012) for certification Audits under the **International Cyanide Management Code** (Code) authorized to audit cyanide producers for compliance with the Code by the International Cyanide Management Institute (ICMI). www.cyanidecode.org/pdf/AuditorList.pdf