

Auditor Credentials Form International Cyanide Management Code Audits

Facility Audited: Golden Star (Wassa) Limited, Level 2, No.1 Milne Close, Airport Residential Area, Ghana

Audit Date: April 26, 2016 – May 05, 2016

Lead Auditor Credentials

- **Lead Auditor:** Clinton Phaal, IEMA Registered Environmental Auditor, Ramboll Environ Africa Pty Ltd, Johannesburg, Gauteng, South Africa
- **Certifying Organization:**
Institute of Environmental Management and Assessment (IEMA)
Saracen House, Crusader Road
City Office Park, Tritton Park
Lincoln, LN6 7AS
United Kingdom
Phone: +44 1522 540069
Fax: +44 1522 540090
Email: info@iema.net

Lead Auditor Experience:

Clinton Phaal – Ramboll Environ Africa Pty Ltd

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-----------|--|---|
| 2016 | Lead Auditor: On behalf of Flint Group, completed environmental and health and safety compliance audits of eight printing ink facilities located throughout South Africa | Western Cape, Eastern Cape, Kwazulu Natal, Gauteng, South Africa |
| 2016 | Auditor: Part of a multidisciplinary team assessing environmental compliance liabilities relating to a large portfolio (approximately 800 sites) of fuel retail sites and depots located throughout South Africa and Botswana | South Africa, Botswana |
| 2015-2016 | Project Manager and Lead Auditor: Environmental Due Diligence review of SunChemical Corporation printing ink facility located in Maitland, Cape Town, to identify any significant environmental liabilities, specifically relating to potential impacts to soil and groundwater. | Cape Town, South Africa |
| 2015 | Project Manager and Reviewer: Support to Bauba Platinum Limited for the development of three Greenfield underground platinum mines within the Limpopo Province of South Africa including a scoping process as part of the EIA Phase for the project | Limpopo Province, South Africa |

**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-------------|--|--|
| 2015 | Project Manager and Lead Auditor: On behalf of Chromaflo, conducted a Phase I Environmental Site Assessment to determine pre-lease baseline conditions for a proposed ink manufacturing facility in Johannesburg, South Africa. | Gauteng, South Africa |
| 2015 | Project Manager: On behalf of TOTAL completed compliance audits of 18 fuel retail sites located across Botswana to evaluate and assess the compliance of the current operational activities against Environmental Management Plans (EMPs) developed for the sites. | Botswana |
| 2015 | Project Manager and Auditor: Environmental Due Diligence review of SunChemical Corporation's printing ink facility in Robertsham, Johannesburg, to identify any significant environmental liabilities, specifically relating to potential impacts to soil and groundwater and compliance issues. | Johannesburg, South Africa |
| 2015 | Project Reviewer: Managed and reviewed an assessment and verification audit of AfriSam's Springvalley Quarry Environmental Management Programme Report (EMPR) in accordance with Regulation 55 of the Mineral and Petroleum Resources Development Act (MPRDA). | Lichtenburg, South Africa |
| 2015 | Auditor: International Cyanide Management Code (ICMC) pre-assessment of the Golden Star Resources Wassa Mine in Ghana in January 2015, in advance of the ICMC recertification audit. | Accra, Ghana |
| 2015 | Project Manager: Project managed and reviewed an environmental compliance audit of DB Thermal located in Nigel. | Nigel, South Africa |
| 2015 | Project Manager: of pre-acquisition environmental due diligence site assessments and compliance audits of four Nampak packaging facilities located in Durban, Cape Town and Port Elizabeth. | Durban, Cape Town and Port Elizabeth, South Africa |
| 2014 | Lead Auditor: On behalf of Kinross Gold Corporations conducted an International Cyanide Management Code (ICMC) re-certification audit of Kinross Gold Mine located in Fairbanks, Alaska. The audit team conducted a detailed examination of cyanide management practices in the nine areas required by the ICMC. | Fairbanks, Alaska |
| 2014 | Lead Auditor: Completed an environmental due diligence liability assessment and compliance audit of a carbon black production facility for Orion Engineered Carbons. | Port Elizabeth, South Africa |

Auditor Credentials Form
International Cyanide Management Code Audits

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-------------|---|--|
| 2013 | Lead Auditor: on behalf of Albemarle Corporation completed an environmental compliance audit of the Jordan Bromine Company UBC facility located in the Safi region of Jordan and storage and shipping facility at Aqaba on the Red Sea. | Safi, Jordan |
| 2013 | Lead Auditor: Environmental Health and Safety compliance audit of a Givaudan flavours production facility located in Tulisa Park, Johannesburg. | Johannesburg, South Africa |
| 2013 | Lead Assessor: Completed a high level environmental risk assessment (ERA) of over 5000 fuel retail forecourt and commercial properties located throughout South Africa. The objective of the assessment was to prioritise sites for further investigations. | Nationwide, South Africa |
| 2013 | Project Manager: Environmental Site Assessments of 89 fuel retail stations throughout north eastern South Africa. The scope of work included targeted soil and groundwater sampling and interpretation of analyses. | North East, South Africa |
| 2013 | Project Manager: for a high level environmental site assessment of approximately 2000 hectares of land formally associated with a chemical facility on behalf of a prospective developer. The purpose of the assessment was specifically to identify any contaminated land liabilities. | Gauteng, South Africa |
| 2013 | Project Manager: for pre-acquisition environmental due diligence (EDD) on behalf of buyer. Site activities included industrial pump assembly and the manufacture of urethane pipe lining for Clyde Blowers in Richards Bay, South Africa. | Richards Bay, South Africa |
| 2012-2013 | Lead Auditor: On behalf of Total South Africa, managed and completed environmental reviews and site assessments including contamination audits of 13 fuel retail stations located throughout 4 Provinces in South Africa. | Gauteng, Mpumalanga and Limpopo Provinces, South Africa |
| 2011-2012 | Lead Auditor: Environmental review, site assessment and project brief prepared in support of an Environmental Authorisation in accordance with Ugandan regulations for Environmental Impact Assessments. | Uganda |

**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-------------|---|--|
| 2012 | Project Manager and Lead Auditor for pre-acquisition due diligence assessments of 14 storage warehouses, a pasta production plant and flour mill in Abidjan. | Abidjan, Cote d'Ivoire. |
| 2012 | Technical Auditor: Involved in the pre-acquisition EDD assessment of a former steel foundry site and soap production plant in Abidjan and Bonoua, Cote d'Ivoire, included managing an intrusive ground investigation. | Abidjan and Bonoua Cote d'Ivoire. |
| 2012 | Project Manager and Auditor: Environmental and compliance assessment of three ink packaging and mixing facilities as part of a divestiture process in Cape Town, Durban and Johannesburg, South Africa. The scope of work consisted of a site visit and review of site operations and existing documentation to identify potential environmental liabilities. | Cape Town, Durban and Johannesburg, South Africa |
| 2012-2013 | Conducted an environmental assessment of a site for the proposed construction of a fertiliser blending plant in Tema, Ghana. The scope of work included a review of permitting requirements through the environmental impact assessment (EIA) process and identification of environmental restrictions to development. | Tema, Ghana |
| 2010-2013 | Project Manager and Lead Auditor: overseeing compliance audits of three oil and gas industry support and service centres located in Luanda. | Luanda, Angola |
| 2011 | Project Manager: Pre entry environmental site assessment (ESA) of the ABS Alloys and Metals SA facility located in Isando, South Africa. | Johannesburg, South Africa |
| 2011 | Manager: Pre acquisition EDD audit and site investigation of an industrial facility manufacturing specialist submersible pump parts for the offshore oil and gas industry in Chonburi Province, Thailand. | Chonburi, Thailand |
| 2011 | Prepared environmental registers and a compliance review for a communications network provider with on area of operations in South Africa | Johannesburg, South Africa |
| 2011 | Project Manager: Managed and completed a high level ESA of the Zincor (Exxoro) electrolytic zinc refinery located near Springs, South Africa. | Gauteng, South Africa |

**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-------------|--|-------------------------------------|
| 2009-2010 | Lead staff overseer: Provision of support to aluminium processing facilities in a number of international locations for environmental, health and safety (EHS) audits. | International |
| 2009 | Project coordinator: Environmental Due Diligence audits of over 30 chemical facilities servicing the offshore drilling industry in Canada. Work comprised site visits, soil sampling and reporting within three weeks of commission. | Canada |
| 2009 | Project Manager and Lead Auditor: Pre-acquisition environmental audits of facilities fabricating specialised oil drilling equipment within the Russian Federation. | Russia |
| 2008-2010 | Integral to establishing an environmental management team seconded to the client during the construction phase of a new coal fired power station in the Limpopo province for Eskom South Africa. Completed benchmarking audits and provided on-going auditing services and strategic environmental support during construction. Additionally, seconded over a short period as environmental manager for the project. | Limpopo Province, South Africa |
| 2009 | Completed pre-acquisition environmental due diligence audits of a food production and vegetable oil plant in the Kherson Oblast, Ukraine for a confidential client. | Kherson Oblast, Ukraine |
| 2009 | Project Manager: Environmental due diligence audit process for the establishment of oil and gas support services and storage yard in Erbil, Kurdistan | Erbil, Kurdistan |
| 2008 | Project Manager: EHS audits of facilities located in Pakistan, France and Tunisia for a confidential client. | Pakistan, France and Tunisia |
| 2008 | Project Manager: Environmental audit of an oil and gas industry service centre located in Luanda and prepared an environmental impact statement for a proposed base expansion and blend plant installation on behalf of Baker Hughes Angola. | Luanda, Angola |

**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|-------------|---|-------------------------------------|
| 2008 | Project Manager: Pre-acquisition due diligence assessment and targeted intrusive investigation of a metal recycling facility in Chorzow, Poland for Celsa. | Chorzow, Poland |
| 2008 | Manager: Environmental due diligence audit of an industrial oil and lubricant target company in Germany for a US client. | Germany |
| 2007 | Project Manager: Pre acquisition due diligence audit of a steel works in Donetsk, Ukraine for Celsa. | Donetsk, Ukraine |
| 2007 | Manager: Environmental due diligence audit of a proposed gas pipeline onshore reception facility near Ashkelon, Israel for BG Group in accordance with IFC guidelines. | Ashkelon, Israel |
| 2006-2007 | Project Manager: Pre-acquisition and developmental environmental assessment for the construction of a nitrogen plant and a watching/auditing brief during subsequent construction phase. | UK |
| 2006 | Undertook pre-acquisition due diligence audits of cotton processing sites located in South Africa, Malawi and Zambia for a cotton commodities business. | South Africa, Malawi and Zambia |
| 2005 | Project Manager: Managed and completed environmental due diligence audits and subsequent intrusive investigations of a vegetable oil refinery in Podari and an oil bottling plant in Craiova, Romania for Cargill. Provided input to subsequent remedial works. | Craiova, Romania |
| 2003 | Completed Phase I Environmental due diligence assessments of more than 50 sites in Romania for a confidential client. Subsequent Phase II intrusive investigations were completed on a further seven facilities. | Romania |

**Auditor Credentials Form
International Cyanide Management Code Audits**

Cyanide-related Operations and Other Auditing Experience – Technical Auditor

Glenn Mills

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|------|---|-----------------------------------|
| 2016 | Lead auditor, ICMC recertification audit, Eldorado Gold Kisladag Mine, Turkey | Turkey |
| 2016 | Lead auditor, ICMC certification audit, Kinross Gold, Tasiast mine, Mauritania | Mauritania |
| 2016 | Technical auditor, preliminary ICMC audit, Golden Star Resources, Bogoso/Prestea mine, Ghana | Ghana |
| 2015 | Lead/technical auditor, preliminary ICMC audit of mineral separation operations, Aurora Gold Project, Guyana | Guyana |
| 2015 | Lead/technical auditor, preliminary ICMC audit of barge and roadway cyanide transportation links, Aurora Gold Project, Guyana | Guyana |
| 2015 | Environmental and social due diligence auditor for Tulu Kapi gold mining project, Ethiopia | Ethiopia |
| 2014 | Environmental and mining practices specialist, environmental and social due diligence audit of coal mine and power plant, Turkey | Turkey |
| 2014 | Environmental and mining practices auditor, environmental and social due diligence audit of iron mining operations, ore transport railway, and ship loading facility, Amapa State, Brazil | Brazil |
| 2013 | Environmental and mining practices auditor, environmental and social due diligence audit of Freeport McMoRan Copper & Gold Cerro Verde mine, Arequipa, Peru | Peru |
| 2013 | Kinross Gold, Chukotka Mining and Geological Company (CMGC). Technical auditor for ICMC recertification audit, for the Kupol Mine | Chukotka A.O., Russian Federation |
| 2013 | Lead auditor and project manager for International Cyanide Management Code (ICMC) certification audit of Eldorado Gold Kisladag Mine, Turkey | Turkey |

**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|------|--|---|
| 2013 | ICMC review of draft Cyanide Management Plan and cyanide facility engineering drawings – Midway Gold, Pan Mine, Ely, Nevada | Nevada, USA |
| 2012 | Lead auditor and project manager for independent environmental audit of Thompson Creek Metals Company, Inc. Endako, BC molybdenum mine and Mt. Milligan, BC copper/gold mine project | BC, Canada |
| 2012 | Lead auditor and project manager for audit of Environmental Management System (EMS) to ISO 14001 and US EPACF-EMS, for Agrium/NuWest Conda Phosphate Operations, Soda Springs, Idaho | Idaho, USA |
| 2012 | Kinross Gold Corporation, Ghana. Lead auditor for the ICMC certification audit of the Kinross Chirano mine | Ghana |
| 2012 | Technical auditor/project manager for ICMC recertification audit, Kinross Gold, Maricunga Mine | Chile |
| 2011 | Lead auditor, EHS audit of early works construction activities, Guyana Goldfields, Inc., Aurora Gold Project | Guyana |
| 2011 | Project Manager, ICMC pre-audits, Eldorado Gold Eastern Dragon, White Mountain, Tanjianshan, and Jinfeng mines and multiple cyanide transporters and producers | Heilongjiang, Jilin, Qinghai, and Guizhou provinces, Peoples' Republic of China |
| 2011 | Technical auditor member/ project manager for ICMC recertification audit, Kinross Gold, Ft. Knox Mine | Alaska, USA |
| 2010 | Technical auditor/project manager for ICMC certification audit, Kinross Gold, Mantos de Oro (La Coipa) Mine | Chile |
| 2010 | Technical auditor/project manager for ICMC recertification audit, Kinross Gold/Barrick Gold, Round Mountain Mine | Nevada, USA |
| 2010 | Technical auditor/project manager for ICMC recertification audit, Cripple Creek & Victor Gold Mining Company, Cripple Creek Mine | Colorado, USA |
| 2009 | Technical auditor/project manager for ICMC certification audit, Kinross Gold, Kupol Mine | Chukotka A.O., Russian Federation |



**Auditor Credentials Form
International Cyanide Management Code Audits**

| Year | Type of Facility/Type of Audit Led | Country & State/Province |
|---------------|---|--------------------------|
| 2008 | Technical auditor/project manager for ICMC certification audit, Kinross Gold, Kettle River Operations | Washington, USA |
| 2008 | Technical auditor/ project manager for ICMC certification audit for Kinross Gold, Maricunga Mine | Chile |
| 2007 | Technical auditor/project manager for ICMC certification audit, Kinross Gold, Ft. Knox Mine | Alaska, USA |
| 2007 | Technical auditor/project manager for ICMC certification audit, Cripple Creek & Victor Gold Mining Company, Cripple Creek Mine | Colorado, USA |
| 2006 and 2007 | Conducted ICMC preassessment for Kinross Gold, Maricunga Mine | Chile |
| 2006 | Conducted ICMC preassessment for Kinross Gold, Ft. Knox Mine (2006) | Alaska, USA |
| 2006 | Technical auditor/project manager for ICMC audit, Kinross Gold/Barrick Gold, Round Mountain Mine | Nevada, USA |
| 2006 | Conducted ICMC preassessment for Kinross Gold/Barrick Gold, Round Mountain Mine | Nevada, USA |
| 2005 | Lead auditor, PT Freeport Indonesia 2005 External Environmental Audit | Papua, Indonesia |
| 2004-2006 | Lead Consultant/ Project Manager/ Lead Author for Environmental and Social Impact Assessment (ESIA) for the Rosia Montana Project | Transylvania, Romania |
| 2000 | EMS Auditor, PT Freeport Indonesia, 2000 Internal Environmental Audit | Papua, Indonesia |

Auditor Credentials Form International Cyanide Management Code Audits

Statement of No Conflict

I certify that I have not audited any component of this facility for which I was responsible for design or development; nor have I within the past year been an employee of the facility, its parent company, or associated affiliates. Excluding audits, I have not derived more than 30% of my income within the past 5 years from the facility, its parent, or associated affiliates. I have not participated in more than two consecutive Cyanide Code audits of this facility. I have participated in at least 3 health, safety, and/or environmental audits in the past 7 years and am familiar with standard audit procedures as well as with the protocols developed by the International Cyanide Management Institute for implementation of the Code.

| <u>Title</u> | <u>Name</u> | <u>Signature</u> | <u>Date</u> |
|--------------------------|---------------|--|---------------------|
| Lead Auditor * | Clinton Phaal |  | September 16 , 2016 |
| Technical Auditor | Glenn Mills |  | September 16 , 2016 |

* Notarized as indicated

B. Ek verklaar dat die inwoner daarvan dat hy/sy verstaan is met die inhoud van die verklaring en dit bevestig voor my en verklaar dit handtekening, duimafdruk/merk is in my teenwoordigheid daarop aangebring.

I certify that the deponent has acknowledged that he/she knows and understands the contents of the declaration which was sworn to, affirmed before me and the deponent's signature, thumb print/mark was placed thereon in my presence.

.....
Vrederegter / Justice of the Peace
Kommissaris van Ede / Commissioner of Oaths

Volle voorname en van
Full first names and surname (DRUKSKRIEF / BLOCK LETTERS)

Amp (rang)
Designation (rank) Ex Officio Republic of South Africa

Besighedsadres
Business address (Street address must be stated)

Datum
Date Plek
Place

