

APPENDICES

- Appendix 1 Imagery of Project Alignment
- Appendix 2 Indicative Table of Contents for Proposed CEMG
- Appendix 3 Example of Certificate of Compliance

APPENDIX 1: IMAGERY OF PROJECT ALIGNMENT

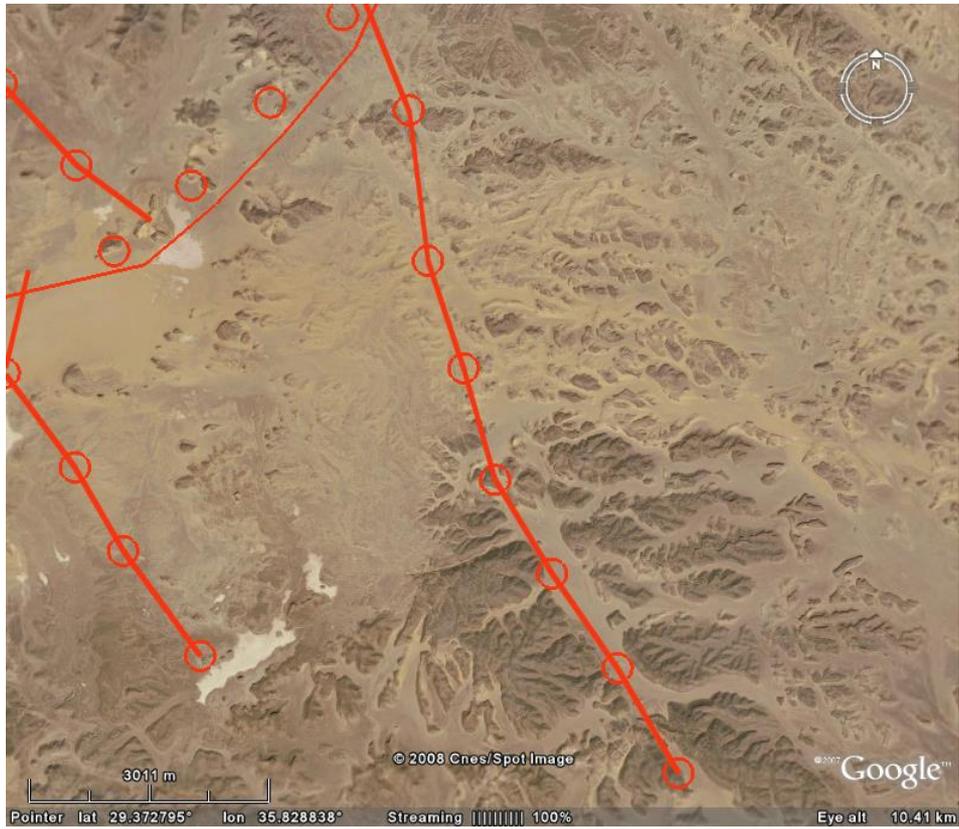


Figure 1 – North east section of Disi Well field



Figure 2 – South east section of Disi Well field

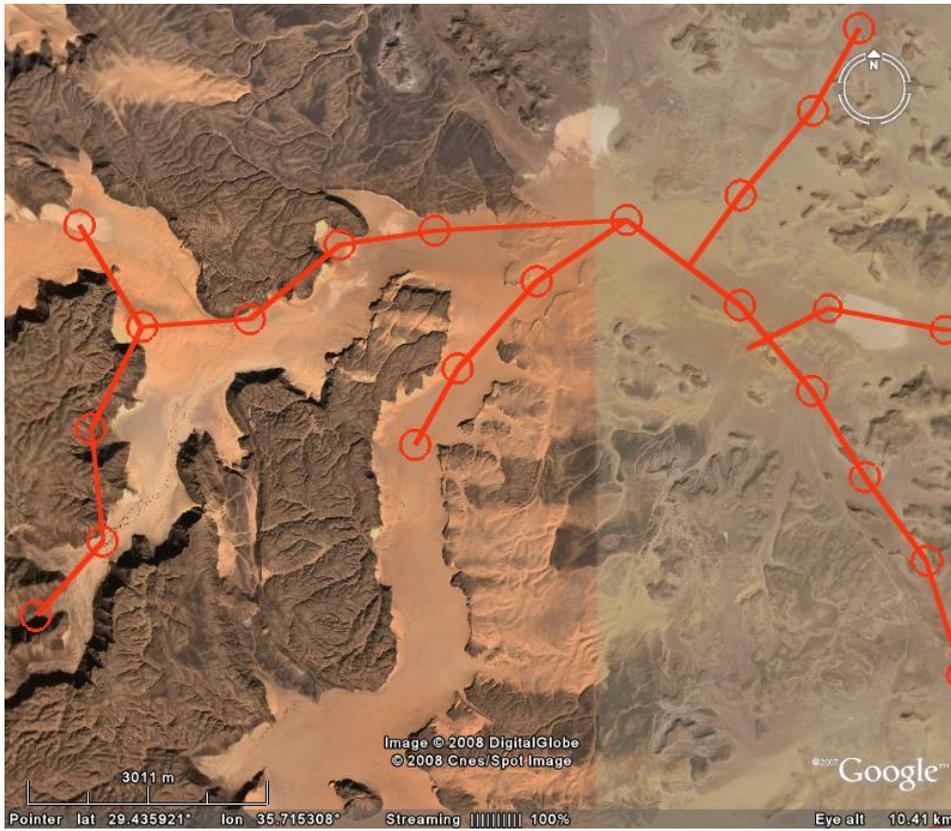


Figure 3 – South west section of Disi Well field

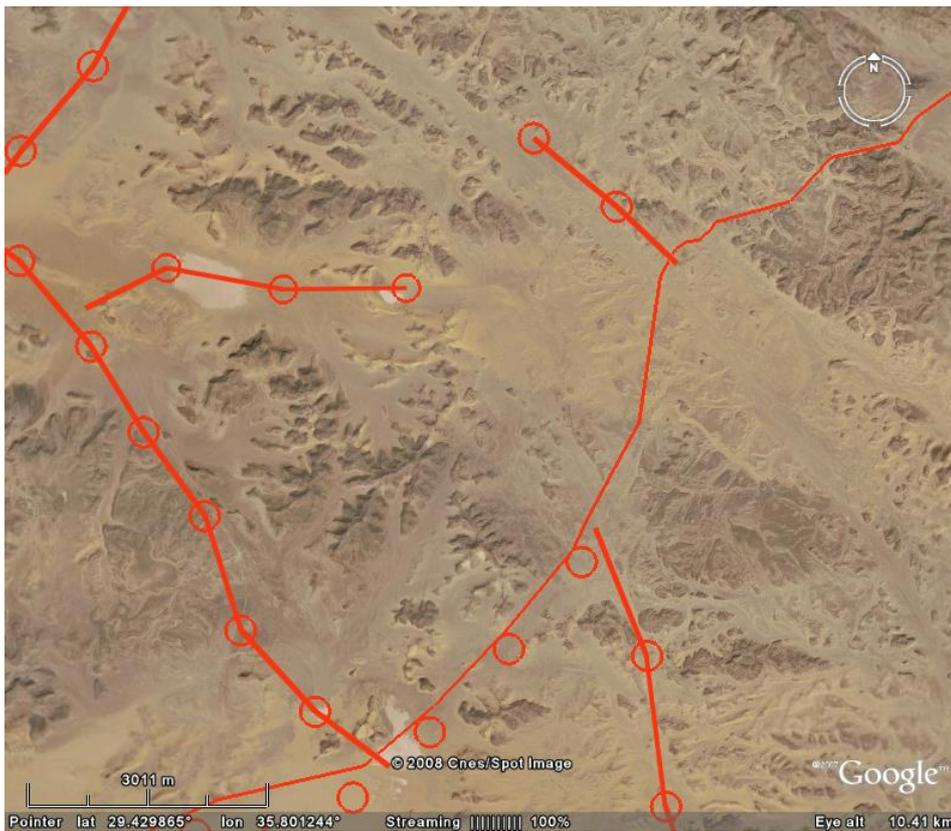


Figure 4 – North west section of Disi Well field



Figure 5 Approximately Km 0 to Km 9

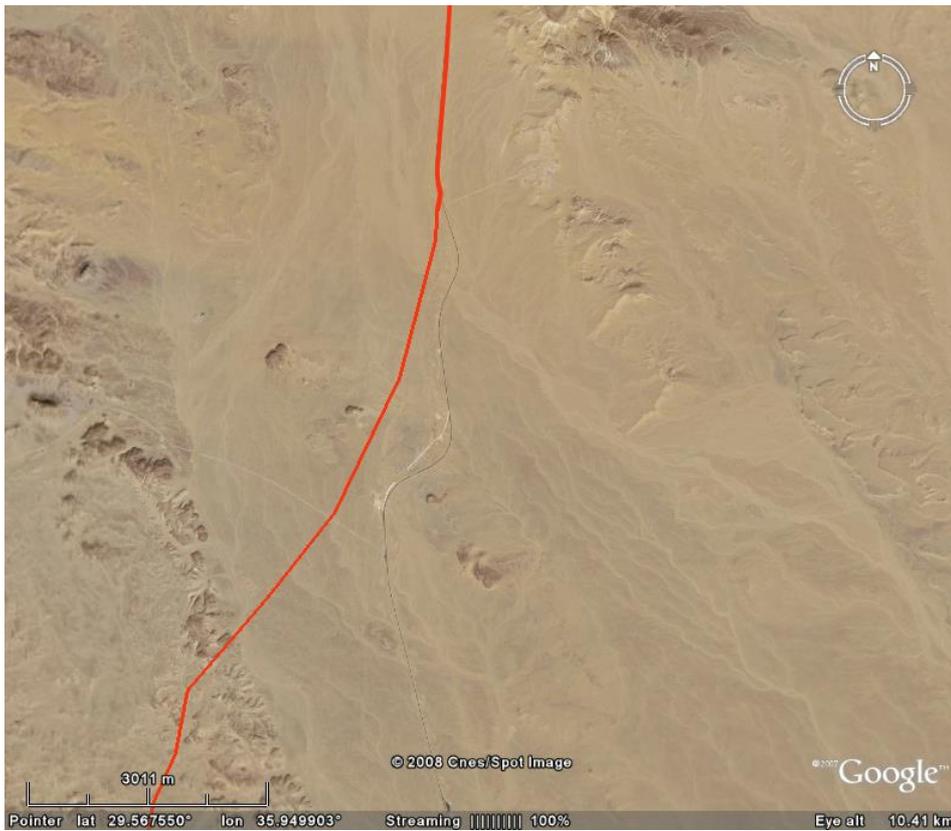


Figure 6 Approximately Km 9 to Km 18



Figure 7 **Approximately Km 18 to Km 30**

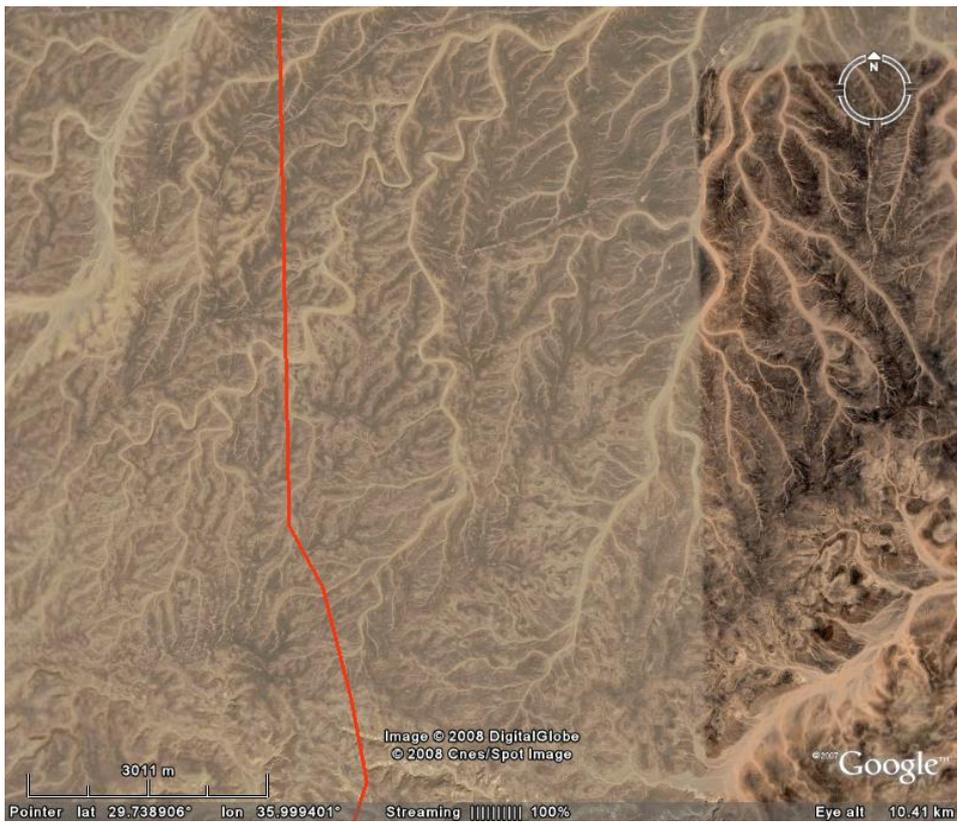


Figure 8 **Approximately KM 30 to 39**

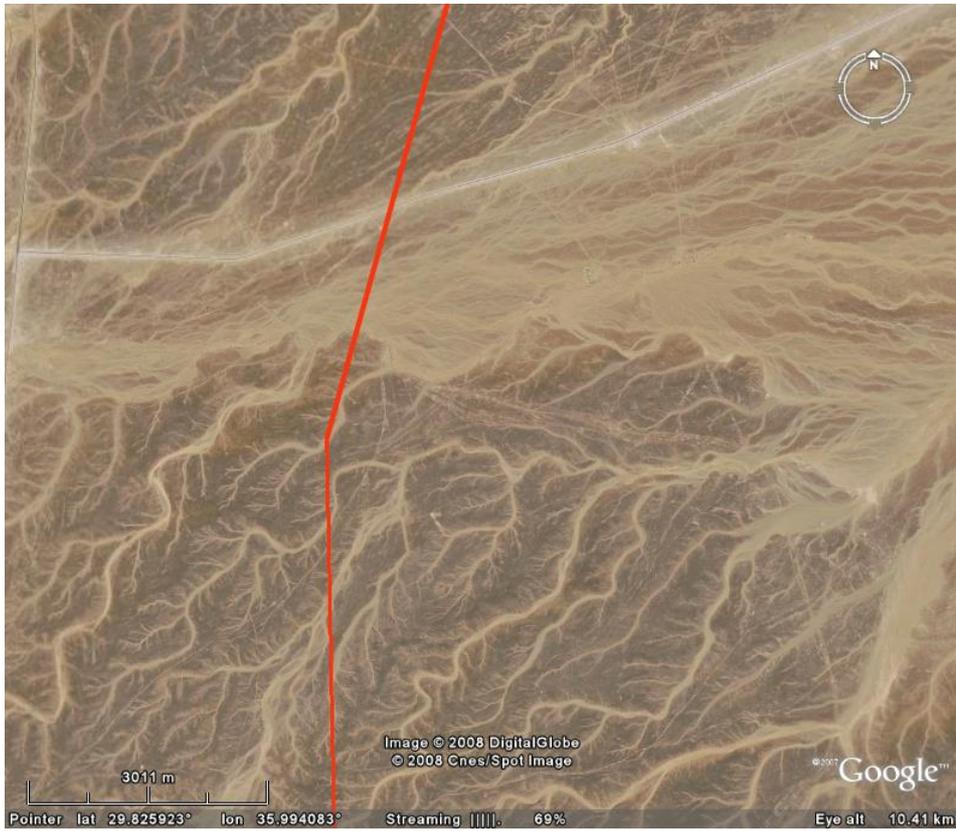


Figure 9 **Approximately KM 39 to 48**



Figure 10 **Approximately KM 48 to KM 57**



Figure 11 Approximately KM 57 to KM 65



Figure 12 Approximately KM 65 to KM 74



Figure 13 Approximately KM 74 to KM 83



Figure 14 Approximately KM 83 to KM 92



Figure 15 Approximately KM 92 to KM 101



Figure 16 Approximately KM 101 to KM 110

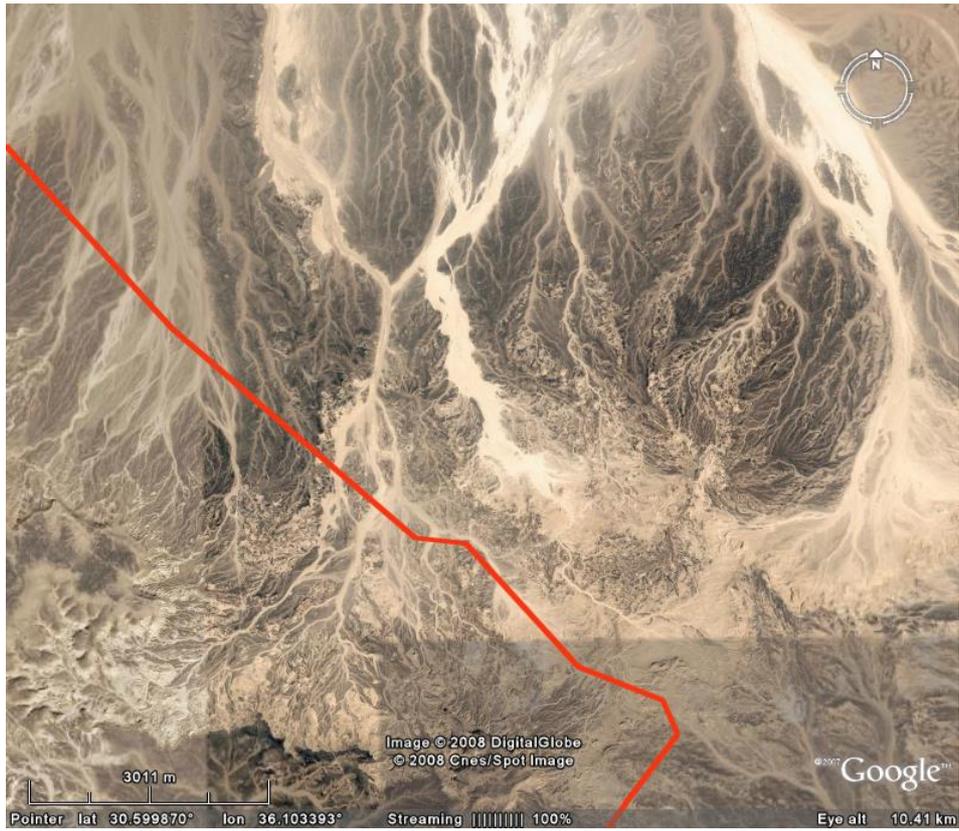


Figure 17 Approximately KM 110 to KM 119



Figure 18 Approximately KM 119 to KM 128



Figure 18 **Approximately KM 128 to KM 137**

APPENDIX 2: INDICATIVE TABLES OF CONTENTS FOR PROPOSED CEMG

COMPLIANCE FRAMEWORK DOCUMENT

1. Objectives
 - 1.1 Introduction
 - 1.2 Commitment to the Environment
 - 1.3 Guideline Objectives and Goals
 - 1.4 Compliance with Other Complementary Policies and Guidelines
 - 1.5 Definitions

2. Legislative Framework
 - 2.1 Jordanian Legislation
 - 2.2 Applicable Guidelines
 - 2.3 International Legislation

3. Responsibilities
 - 3.1 Main Contractor
 - 3.2 PMT
 - 3.3 Supervising Consultant
 - 3.4 Authorities
 - 3.5 Nominated Contacts

4. Environmental Compliance System
 - 4.1 Purpose and Objectives
 - 4.2 Compliance Procedures
 - 4.3 Performance Recognition System
 - 4.3.1 Negative Performance Points
 - 4.3.2 Positive Performance Points
 - 4.3.3 Improving Performance Recognition
 - 4.3.4 Performance Points Scale

5. Contractors Declaration

CEMG – 01 General Guidelines

1. General
 - 1.1 Purpose of Document
 - 1.2 Responsibilities
 - 1.3 Contents

- 2 General Guidelines
 - 2.1 Guidance and Training of Personnel
 - 2.2 Use of Environmentally Friendly and Safe Materials
 - 2.3 Construction Activities
 - 2.4 Construction Equipment
 - 2.5 Pollution
 - 2.5.1 Prevention of Water Pollution
 - 2.5.2 Prevention of Soil Pollution
 - 2.5.3 Remediation
 - 2.6 Site Boundary
 - 2.7 Public Services and Utilities
 - 2.8 Water Supply and Use
 - 2.9 Public Hygiene and Sanitary Facilities
 - 2.10 Waste Management
 - 2.11 Construction Traffic
 - 2.12 Non Hazardous Materials Storage
 - 2.13 Hazardous Materials Storage and Use
 - 2.14 Noise Control
 - 2.15 Air Quality
 - 2.15.1 Dust Abatement
 - 2.15.2 Other Atmospheric Pollution
 - 2.16 Hydrology- Prevention of Erosion and Increased Sedimentation
 - 2.16.1 Water Discharge from Site
 - 2.16.2 Dewatering
 - 2.17 Operations in Unstable Areas
 - 2.18 Cultural Resources
 - 2.19 Ecosystems and Wildlife
 - 2.20 Transport of Construction Workforce

3. Off site Works
 - 3.1 General
 - 3.2 Construction Camps and Yards
 - 3.3 Raw Materials Extraction Points
 - 3.4 Materials Processing Sites
 - 3.4.1 General
 - 3.4.2 Wastewaters
 - 3.4.3 Atmospheric Pollution
 - 3.4.4 Noise

4. Post Contract Activities and Demobilisation

CEMG – 02 Waste Management

1. General
 - 1.1 Purpose of Document
 - 1.2 Regulations
 - 1.2.1 Guidance on Waste and Legislation
 - 1.2.1.1 What is waste?
 - 1.2.1.2 Legislation and Guidelines
 - 1.2.2 Waste Classification
 - 1.2.3 Prohibited Waste Disposal Practices
 - 1.3 Responsibilities
 - 1.3.1 Main Contractor
 - 1.3.2 PMT
 - 1.3.3 Supervising Consultants
 - 1.4 Contents

2. Guide to Formulating a Waste Management Plan

3. Disposal Options
 - 3.1 Inert Waste and Domestic or Municipal Waste (Category A and B Waste)
 - 3.2 Non- Hazardous Industrial Waste
 - 3.2.1 Construction and Demolition Waste
 - 3.2.2 Unusable / Excess Fill Material
 - 3.3 Hazardous Wastes
 - 3.4 Discharge of Wastewater
 - 3.4.1 Discharge to a Sewer
 - 3.4.1.1 Sewer Discharge Permits
 - 3.4.2 Monitoring Requirements
 - 3.4.3 Kitchen Waste
 - 3.4.2 Discharge to an Internal System

4. Duty of Care- Company Responsibilities
 - 4.1 Definition
 - 4.2 Transfer Notes

5. Best Waste Management Practice
 - 5.1 Identify a Waste Manager
 - 5.2 Developing a Waste Prevention Program
 - 5.3 Good Housekeeping Practices
 - 5.4 Guide to Best Practice and Training Materials
 - 5.5 Nominated Representatives
 - 5.6 Reporting

CEMG - 03 Hazardous Materials Management

1. General
 - 1.1 Purpose of Document
 - 1.2 Regulations
 - 1.3 Responsibilities
 - 1.3.1 Main Contractor
 - 1.3.2 PMT
 - 1.3.3 Supervising Consultants
 - 1.4 Contents

2. Definition and Hazmat Responsibilities
 - 2.1 Definition
 - 2.2 Hazmat Responsibilities
 - 2.2.1 General
 - 2.2.2 HAZMAT Inventory
 - 2.2.3 Emergency Response Plan

3. Best Practice Guidelines
 - 3.1 General
 - 3.2 Fuel Storage and Use
 - 3.2.1 Storage
 - 3.2.2 Spills
 - 3.3 Bitumen
 - 3.3.1 Storage and Handling
 - 3.3.1.1 Handling
 - 3.3.1.2 Storage - Safety Considerations for Tankage
 - 3.3.1.3 Loading, Transportation and Discharge - Cold Form
 - 3.3.2 Use of Bitumen
 - 3.4 Chlorine
 - 3.4.1 Storage and Handling
 - 3.4.1.1 Handling
 - 3.4.1.2 Storage - Safety Considerations
 - 3.4.1.3 Loading, Transportation and Discharge
 - 3.4.2 Use of Chlorine

- 3.5 Hazmat Waste Collection and Disposal

4. Development of Emergency Response Procedures for Accidents Involving Dangerous Goods
 - 4.1 General
 - 4.2 Progress of an Incident
 - 4.3 Planning
 - 4.3.1 Risk Assessment and Mitigation
 - 4.3.2 Subsequent Site Safety Auditing
 - 4.3.3 MSDS and HAZMAT Inventories
 - 4.3.4 The Incident Plan Management System
 - 4.4 Further Advice

CEMG – 04 Construction Camps and Yards

1. General
 - 1.1 Purpose of Document
 - 1.2 Regulatory Framework
 - 1.3 Responsibilities
 - 1.4 Contents

- 2 Determining Site Location
 - 2.1 Main Camps and Yards
 - 2.2 Secondary Facilities

- 3 Preparation of Site Plan
 - 3.1 Required Information
 - 3.1.1 General
 - 3.1.2 Site Plan Content
 - 3.1.3 Modification of Approved Site Plans

- 4 Special Measures
 - 4.1 General
 - 4.2 Security
 - 4.3 Accommodation
 - 4.3.1 Facilities
 - 4.3.2 Housekeeping and Maintenance
 - 4.3.3 Conduct
 - 4.3.4 Complaints from Local Communities
 - 4.4 Parking
 - 4.5 Cultural Resources
 - 4.5 Drainage
 - 4.6 Waste Supply and Use
 - 4.7 Other Public Services and Utilities
 - 4.8 Waste Management
 - 4.9 General Hygiene
 - 4.10 Workshops and Repair Areas
 - 4.10.1 Workshop Activities
 - 4.10.2 Material Storage and Handling
 - 4.11 Hazardous Materials
 - 4.12 Air Quality
 - 4.13 Noise

CEMG – 05 Access Management

1. General
 - 1.1 Purpose of Document
 - 1.2 Regulatory Framework
 - 1.3 Responsibilities
 - 1.3.1 MC
 - 1.3.2 PMT
 - 1.3.3 Supervising Consultants
 - 1.3.4 Civil Defence and Police
 - 1.4 Contents

2. Conditions on the Use of the Public Rights of Way
 - 2.1 General
 - 2.2 Guidelines in Preparing the PMP
 - 2.3 Public Notification
 - 2.4 Damage to Public Highways and Utilities

3. Guidelines for Development of Site Access
 - 3.1 General
 - 3.2 Water Course Crossing
 - 3.3 Definition of Construction Access Routes

4. Management of Construction Traffic Operations

5. Maintenance of Existing Local Network and Property Access

CEMG – 06 Quarries and Borrow Areas

1. General
 - 1.1 Purpose of Document
 - 1.2 Regulations
 - 1.3 Responsibilities
 - 1.3.1 MC
 - 1.3.2 PMT
 - 1.3.3 Supervising Consultants
 - 1.3.4 NRA
 - 1.4 Contents

2. Guidelines for Borrow Pits
 - 2.1 General
 - 2.2 EIA Requirements
 - 2.3 Borrow Site Planning and Design
 - 2.4 Borrow Site Operations
 - 2.5 Pit Restoration

3. Guidelines for Quarries
 - 3.1 General
 - 3.2 EIA Requirements
 - 3.3 Quarry Site Planning and Design
 - 3.4 Quarry Site Operations
 - 3.5 Blasting
 - 3.6 Site Restoration

APPENDIX 3 EXAMPLE OF CERTIFICATE OF COMPLIANCE

CERTIFICATE OF ENVIRONMENTAL COMMITMENT

Name of Contractor			
Construction Project Name			
Construction Ref. No		Commencement Date	

1. Application of Environmental Management Guidelines, Site Assessment and Inspection

The following should be read by all persons involved in the Construction of the Project.

- a) In operating their sites the Main Contractor agrees to abide by the requirements outlined in the Construction Environmental Management Guidelines and the Compliance Framework Document.
- b) The Main Contractor agrees to a pre-construction assessment of affected sites prior to construction to determine their environmental condition. These assessments would be undertaken jointly between MWI and/or MWI nominated personnel, GAMA Personnel and nominated Main Contractor personnel.
- c) The Main Contractor agrees to have MWI and GAMA staff, or nominated representatives, conduct Inspections of all contract sites throughout the Construction period. No advance notification of inspection will be required.
- d) GAMA will provide the Main Contractor with copies of all Compliance Inspection Reports.
- e) The Main Contractor shall maintain a log of all Inspection Reports in a Project File. The Project File shall be maintained on site and be made available to permitting authorities on request. The contents of the Project File are attached as Annex 1 to this document.
- f) Prior to hand over of a site at the end of the Contract the Main Contractor agrees to a post-construction assessment to determine its post-contract environmental condition. This would be undertaken jointly between MWI and/or MWI nominated personnel, GAMA Personnel and nominated Main Contractor personnel.

2. Contractors Declaration

I the undersigned, the legal representative of the Main Contractor having read the conditions above confirm that _____ (Main Contractor) undertake to fulfil the obligations outlined.

Signed
Witness

Position
Position

Date
Date