

ANE 07-09 Egypt SO16 LIFE Lead (Pb)-Cleanups El Kablat EA – Mitigation Table

Environmental Assessment – El Kablat Medical Center and Two Closed Secondary Lead Smelters

Livelihood and Income from the Environment Program
Lead Pollution Clean-up in Qalyoubia

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LIFE Lead Pollution Clean-Up in Qalyoubia

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DISCLAIMER

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Applicability--

The ERP was developed for the remediation option which was deemed most favourable as a result of the multi-criteria analysis. It has been prepared as a guideline document to provide contractors with procedures that will allow them to identify risk situations and to respond appropriately to emergencies that may occur during project implementation. LIFE-Lead will require contractors to modify and update the plan periodically during the remediation process as needed. Table 20 provides a detailed summary of the environmental risks.

Table 20: Summary of Environmental Risks

Hazard Type	Prevention Measure	Hazard Rating	Response (Table 16)
Onsite Storage and Handling of Hazardous Materials			
Spills associated with liquids causing impacts to soil and the possibility of fire.	Worker training on chemical handling and storage and provision of proper containment mechanisms	Moderate	SP, ME, FE
Hazards associated with human contact with chemicals.	Workers training, strict operational procedures, and containment practices.	Moderate to high	SP, ME
Decontamination of Building and Building Improvements			
Accidents involving workers slipping, tripping, or falling; and resulting from the use of equipment.	Worker training, use of PPE at all times, exercising common sense, and using harnesses and wires when working on elevated surfaces.	Low to moderate	ME
Transportation Accidents (All Transportation Routes)			
Accidents during transportation causing personal injury and spills onsite or along the road to the final disposal site(s)	Strict safety procedures for drivers, regular vehicle maintenance, appropriate containment of waste while transporting, and vehicle escort service as practicable.	Moderate to high (human error is an important factor that needs to be managed)	TR

Specific emergency response procedures are developed for each type of emergency situation (e.g., transport accident, fire, etc.) based on the general principles outlined in Table 21.

Table 21: Guidelines for Response Procedures

Ref.	Risk Situation	Potential Substances or Facilities Involved	Hazard	Key Elements of the Emergency Response Plan
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Ref.	Risk Situation	Potential Substances or Facilities Involved	Hazard	Key Elements of the Emergency Response Plan
TR	Transportation	Transport within and near the remediated sites, and along long access roads to the Abu Zaabal (non hazardous waste) and the Alexandria Hazardous Waste Landfills.	Injury or fatality, and spill of transported materials.	<p>Notification and containment of spills on-site or near-site as per procedures in Item SP.</p> <p>Medical emergencies will adopt procedures as per Item ME.</p> <p>For fires located along the transport route, the following will be applied:</p> <ul style="list-style-type: none"> • Each truck will be equipped with a fire extinguisher that will vary depending on the material being shipped. • For small fires, dry chemical CO₂ extinguishers will be used. • For large fires, the fire area will be flooded with water from a distance. The water jet will not be projected over the spilled material. Water will not be used if the material is acidic. Vehicles will be equipped with proper fire extinguishing materials. • The truck will be removed from the fire area if possible without invoking further risk. • Water will be applied to the shipment to cool the sides exposed to flames until the container is within normal temperatures. • Workers will stay at a⁴ safe distance from the burning materials.
EA for	El Kablat Medical Center and Closed	Lead Smelters		

Ref.	Risk Situation	Potential Substances or Facilities Involved	Hazard	Key Elements of the Emergency Response Plan
SP	Spills	Solvents and chemicals used to remove paints. Paint materials for walls.	Potential health hazard due to ingestion, inhalation, or dermal contact. Possible flammability and corrosivity depending on chemical.	Notification of emergency to the Site Engineer and the Egyptian Environmental Affairs Agency.

Ref.	Risk Situation	Potential Substances or Facilities Involved	Hazard	Key Elements of the Emergency Response Plan
ME	Medical Emergencies	On site, all activities.	Injuries to workers.	<p>The contractor will have a specialized person (or a person of the team) on site and at all times who is trained in the disciplines of first aid, CPR, fire rescue, and evacuation. All workers will be trained in the proper response to specific injuries (e.g., not moving workers with potential spinal injuries). The injured workers will be transported to the local medical facility.</p> <p>The following procedure will be employed at the location of the incident:</p> <ul style="list-style-type: none"> • Assess the location and severity of the situation. • Avoid taking health or safety risks by entering a dangerous or unstable area. • Restrict access to the area. • Notify the Health and Safety Manager. • Assist in extinguishing the fire and securing the area only under the direction of the Health and Safety Manager. • Contact the local fire fighting authority to start mobilizing.

Ref.	Risk Situation	Potential Substances or Facilities Involved	Hazard	Key Elements of the Emergency Response Plan
FE	Fire within project site.	Onsite, particularly chemical or fuel storage areas.	Fire with potential subsequent damage to property, injury, or explosion.	<p>Fire fighting equipment will be maintained onsite during all site operations.</p> <p>Key procedures within the project site include the following:</p> <ul style="list-style-type: none"> • Assess the location and severity of the situation. • Avoid taking health or safety risks by entering a dangerous or unstable area. • Address life threatening issues such as the lack of pulse, blocked air passages, or severe bleeding using basic first aid techniques. • Notify the Health and Safety manager/site manager according to established protocols. • Assist in securing the situation and transporting the victim under the direction of the Health and Safety Manager on site.