

# DDAS Accident Report

## Accident details

<b>Report date:</b> 06/03/2011	<b>Accident number:</b> 682
<b>Accident time:</b> 07:25	<b>Accident Date:</b> 21/06/2009
<b>Where it occurred:</b> Task No: E 399 SABHA 8, East Sector, Um Al Quttain village Almafraq Province	<b>Country:</b> Jordan
<b>Primary cause:</b> Unavoidable (?)	<b>Secondary cause:</b> Unavoidable (?)
<b>Class:</b> Excavation accident	<b>Date of main report:</b> Not recorded
<b>ID original source:</b> None	<b>Name of source:</b> Demining group
<b>Organisation:</b> [Name removed]	
<b>Mine/device:</b> M14 AP blast	<b>Ground condition:</b> hard rocks/stones
<b>Date record created:</b>	<b>Date last modified:</b> 06/03/2011
<b>No of victims:</b> 1	<b>No of documents:</b> 2

## Map details

<b>Longitude:</b>	<b>Latitude:</b>
<b>Alt. coord. system:</b> Not recorded	<b>Coordinates fixed by:</b>
<b>Map east:</b>	<b>Map north:</b>
<b>Map scale:</b>	<b>Map series:</b>
<b>Map edition:</b>	<b>Map sheet:</b>
<b>Map name:</b>	

## Accident Notes

no independent investigation available (?)  
standing to excavate (?)  
use of rake (?)  
long handtool may have reduced injury (?)

## Accident report

An internal demining group accident report was made available. The conversion into a DDAS file has led to some of the original formatting being lost. Text in square brackets [ ] is editorial.

The internal report is reproduced below, edited for anonymity.

## **INCIDENT INVESTIGATION [Demining group] – MINE ACTION TEAM - JORDAN**

TASK NAME SABHA 8 (399), NORTH BORDER PROJECT, EAST SECTOR

GRID REF: [None], UM ALQUTTAIN

MINEFIELD NO – 399, MINEFIELD TASK ID - E 399 SABHA 8, SECTOR – EAST

INVESTIGATION CONDUCTED BY – [Demining group], [Name removed].

DEMINER: [The Victim], DATE OF BIRTH: 10/01/1977, NIC NO (ID NUMBER): [removed]

SECTION COMMANDER: [Name removed]. TEAM LEADER: [Name removed].

TIME OF INCIDENT: 07:25 AM, DATE OF INCIDENT: 21 JUNE 2009

NATURE OF INJURY: No Injury. TYPE OF MINE: Anti Personnel M 14

## **IMSMA DETAILED REPORT FOR MINE INCIDENT Tuesday, 21 JUNE 2009**

### **Part 1 – Description of the incident**

1. Organisation name: [Demining group], JORDAN. Team No: Manual Team 3
2. Incident date: 21/06/2009: Time: 07:25AM
3. Location of incident: EAST SECTOR, Province: ALMAFRAQ, Village: UM AL QUTTAIN, Project or task No: E 399 SABHA 8
4. Name of site manager or team leader: [Name removed].
5. Type of incident: M14 AP MINE, uncontrolled detonation of a mine/.
6. Device was detonated by: deminer
7. Device detonated while: Raking with Heavy Rake
8. Device was found in an area classified as: a known hazardous area
9. Narrative (Describe how the incident happened. Attach additional pages and photographs or diagrams to assist in clarifying the circumstances surrounding the incident):  
  
While the deminer trying to recover an invisible mine (M14) in cluster (41) 9clock mine, in section (4) assigned to him by section commander, the deminer recovered 12 clock mine with depth 15th CM and then started to recover 9 clock mine meanwhile the same mine initiated indecently on 1.5m away from the deminer while excavating the area with heavy rake.

### **Part 2 – Injuries**

10. Did the incident result in any injuries? No [See Medic's statement: there were slight injuries.]
11. List people injured and nature of injury: [None]

### **Part 3 – Equipment damages**

12. Did the incident result in any damage to equipment or property? No
13. List any mine action equipment or property damage: [None]
14. List damage to equipment or property owned by a member of the public or the government. [None]

**Part 4 – Explosive hazard**

15. Provide details of mines/UXO/ other devices that were involved in the incident.

Device Type:                      Method:                      Determined by:

AP (Blast) Mine                      Buried                      RAKING

16. State specific device (if known): Anti-Personal Mine, 01, M 14 AP MINE

17. Comments (include measurements of any crater resulting from the explosion): Crater  
Depth: approx. 15 cm / Width: approx. 40 cm

**Part 5 - Site conditions**

18. Describe the conditions at the site at time of the incident

Ground/Terrain: hard, flat

Weather: Clear

Vegetation: Grass, Heavy

**Part 6 – Team and task details**

20. Qualifications of Member(s) involved in the incident:

Name	Position in Location	Occupation
[The Victim]	Deminer	Manual Team 3

21. How long had this team been?

- a. At this site? 1 month
- b. working on this task? 4 months
- c. working on the day? 55 Minutes

22. Detector type: N/A. Tripwire feeler used? No

23. Hand tool: HEAVY RAKE

24. PPE: Vest, Visor [Blast boots]

25. Comments: [None]

**Part 7 - Medical & First Aid**

Medical treatment required? No [See Medic’s statement: there were slight injuries.]

26. Medical Support at Incident Site: Medic, 1st Aid Kit, Stretcher, Ambulance, Safety Vehicle, Radio to call forward medic

27. Was a Mine Incident Drill carried out? Yes

28. Time and distance data

- a. Time from incident to SECTION MEDICAL POINT: (01) minute
- b. Time spent at site administering treatment: 14 minutes
- c. Time from evacuation FROM to arrival King Abdullah Hospital: N/A

**Part 8 – Reporting procedures**

Reported by: [Name removed], [Demining group] Amman Office to: [Demining group] Offices & NCDR

Investigation conducted by: [Name removed].

Report compiled/translated by: [Name removed]

Verified by: [Name removed]

### **Observations and Recommendations**

According to preliminary investigation the incident was caused due to the area difficulty like, and by an individual mistake while the deminer approaching the mine by using the heavy RAKE with hacking motion not raking.

Signed: Operations Coordinator, 21 JUNE 2009

### **Attachments:**

Statements by Injured Members

Statements by Witnesses

Copy of Incident Report

### **Victim Report**

<b>Victim number:</b> 866	<b>Name:</b> [Name removed]
<b>Age:</b> 32	<b>Gender:</b> Male
<b>Status:</b> deminer	<b>Fit for work:</b> presumed
<b>Compensation:</b> Not made available	<b>Time to hospital:</b> N/A
<b>Protection issued:</b> Frontal apron Mask Visor blast boots	<b>Protection used:</b> Frontal apron, Mask visor, blast boots

### **Summary of injuries:**

INJURIES: minor Hearing, minor Leg

COMMENT: No medical report was made available. See Medic's statement.

### **Statements**

#### **Statement 1: the Victim**

At 07:25 am the 21st of June 2009 while am working on 9 o'clock mine in section 4 Sabha 8, I was following all the procedures in the manual clearing and after I finished the first box I used the light rake first and when it was not responding to the hard ground I turned to the heavy rake to release the upper layer of the sand and grass, I pulled using the heavy rake then the accident happened suddenly while am working.

Answers to Investigator Questions:

It's an M14 Mine I was working on.

Yes, I used the right equipments according to the instructions.

Yes, I took a morning safety brief with the team from the team leader and the section commander.

Yes, the safe distance between me and the other de-miners was according to the procedures.

Yes, the equipments I used were checked before I started working and they were all useful.

No, I was not asked to finish my work in a hurry.

Yes, it's a very hard area am working on there.

### **Statement 2: Team leader**

At 07:25 am while I was in section 1 Sabha 8 I heard a sound of explosion from section 4 team(group 2), I was informed by radio that the de- miner [the Victim] had a mine explosion accident, then I informed the medic team and went to the accident place to evacuate the injured according to the instructions we have.

Answers to Investigator Questions:

Yes, I gave the team the morning safety brief.

Yes, all the tasks and equipments were checked in the morning.

Yes, I checked on group 2 from the team as the procedures of the SOP.

Yes, the land there is very hard, stony grassy and rocky.

Yes, the injured was evacuated and sent to the medic team according to the instructions.

He is one of the hard working and disciplined deminers.

Yes, the safe distance between group members is set according to the SOP procedures.

No, we were not asked from any one to finish early or work fast.

### **Witness 3: Section Commander**

At 07:25 am Sunday the 21st of June 2009 while I was checking the de-miners on my area of responsibility and after I finished checking on the deminer [the Victim] and gave him all the needed instructions for his work in his group, I went to the next deminer, I heard a sound of explosion from the last deminer I checked on site, then I informed the team leader and medic team and headed to the accident place and supervised the deminer evacuation according to the instructions.

Answers to Investigator Questions:

Yes, we were given the morning safety brief from the team leader.

Yes, I gave my group the second safety brief before they start working.

Yes, I checked all the tasks and equipments and they were all useful.

No, I was not asked to increase my productivity and finish early.

Yes, it's a very hard area.

Yes, the team leader checked on that section many times before the accident.

Yes, we explained how to insure a mine in the morning before we started working.

He is one of the good deminers.

#### **Statement 4: Medic**

I was informed about an accident in Sabha 8 Section 4 from the section commander [Name removed] at 07:25 am; I went there and found the injured de-miner [the Victim] is walking outside the field, we checked on him he was fine with only a small injury in his right leg and some buzz in his ears, we checked his biological signs they were normal then sent him to the hospital.

#### **Analysis**

The primary and secondary causes of this accident are listed as *Unavoidable* because it seems that the Victim was working as directed in hard ground when the accident occurred.

This record included errors and data copied from a previous report. The most important error was the recording of "no injuries" when the Medic stated that there was and the Victim was taken to hospital.

The demining group who made this report available is thanked for its transparency and its professional concern to share lessons that can be learned from accidents. This record, along with several other records where rakes were used, provide compelling evidence that the controlled use of rakes can be both effective and tolerably safe (reducing risk of severe injury to tolerable levels).