IADC

IADC ISP PROGRAM

2015

Summary of Occupational Incidents
(Africa Water Totals)

Issued 15 July 2016
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### IADC 2015 Africa Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Totals</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Manhours</td>
<td>27,933,397</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>17</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>18</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>48</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.12
- **RWC Incidence Rate**: 0.13
- **LTI Incidence Rate**: 0.09
- **LTI Frequency Rate**: 0.47
- **DART Incidence Rate**: 0.22
- **DART Frequency Rate**: 1.11
- **Recordable Incidence Rate**: 0.34
- **Recordable Frequency Rate**: 1.72

**MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MANHOURS (LTIs NOT INCLUDED)**

**RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MANHOURS (LTIs NOT INCLUDED)**

**LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MANHOURS**

**LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MANHOURS**

**DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MANHOURS**

**DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MANHOURS**

**RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MANHOURS**

**RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MANHOURS**

**Companies Reporting:** Water – 25

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### Africa Water Total Incidence Rates vs Man-hours (Figure 1)

![Incidence Rate vs Man-hours Graph](image-url)
Africa Water Total Lost Time Incidents by Month (Chart 1)
Based on 13 Incidents

January: 7.69%
February: 7.69%
March: 7.69%
April: 15.38%
May: 15.38%
June: 15.38%
July: 7.69%
August: 15.38%
September: 7.69%
October: 7.69%
November: 7.69%
December: 7.69%
Africa Water Total Recordable Incidents by Month (Chart 2)
Based on 48 Incidents

- January: 10.42%
- February: 14.58%
- March: 8.33%
- April: 20.83%
- May: 4.17%
- June: 10.42%
- July: 8.33%
- August: 8.33%
- September: 6.25%
- October: 4.17%
- December: 4.17%
Africa Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 13 Incidents

- Roustabout (Lease Hand): 23.08%
- Floorman: 23.08%
- Driller (Asst. Dr.): 7.69%
- Derrickman: 7.69%
- Crane / Forklift Operator: 7.69%
- Toolpusher (Asst.TP, Tourpusher): 7.69%
- Subsea Engineer: 7.69%
- Superintendent/other Supervisors: 7.69%
- Subsea Engineer: 7.69%
- Marine Crew: 7.69%
- Other: 7.69%
Africa Water Total Recordable Incidents by Occupation (Chart 4)
Based on 48 Incidents

- Subsea Engineer: 10.42%
- Marine Crew: 6.25%
- Roustabout (Lease Hand): 22.92%
- Floorman: 10.42%
- Derrickman: 10.42%
- Driller (Asst. Dr.): 10.42%
- Toolpusher (Asst. TP, Tourpusher): 8.33%
- Electrician: 4.17%
- Motorman: 2.08%
- Crane / Forklift Operator: 2.08%
- Mechanic: 4.17%
- Superintendent/other Supervisors: 4.17%
- Deck Supervisor (Deck Coordinator): 4.17%
- Superintendent/other Supervisors: 4.17%
- Mechanic: 4.17%
- Motorman: 2.08%
- Crane / Forklift Operator: 2.08%
- Electrician: 4.17%
- Toolpusher (Asst. TP, Tourpusher): 8.33%
- Driller (Asst. Dr.): 10.42%
- Floorman: 10.42%
- Derrickman: 10.42%
- Roustabout (Lease Hand): 22.92%
- Marine Crew: 6.25%
- Subsea Engineer: 10.42%
Africa Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 13 Incidents

- Finger(s): 46.15%
- Leg(s): 15.38%
- Feet/Ankles: 7.69%
- Eyes (eyelid): 7.69%
- Arm(s): 7.69%
- Hand(s) / Wrist(s): 15.38%
Africa Water Total Recordable Incidents by Body Part (Chart 6)
Based on 48 Incidents

- Finger(s): 37.50%
- Hand(s) / Wrist(s): 10.42%
- Arm(s): 2.08%
- Leg(s): 12.50%
- Feet/Ankles: 12.50%
- Back: 2.08%
- Head: 14.58%
- Eyes (eyelid): 4.17%
- Knee(s): 2.08%
- Neck: 2.08%
Africa Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 13 Incidents

- Caught Between/In: 69.23%
- Cut: 15.38%
- Contact With Chemicals/Fluids: 7.69%
- Strain/Overexertion: 7.69%
Africa Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 48 Incidents

Caught Between/In: 45.83%
Struck By: 18.75%
Struck Against: 6.25%
Slip/Fall: Same Level: 10.42%
Cut: 10.42%
Sprain: 2.08%
Debris: 2.08%
Contact With Chemicals/Fluids: 2.08%
Strain/Overexertion: 2.08%
Africa Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 11 Incidents

- BOP Stack (well head, tree) 27.27%
- Pipes/Collars/Tubulars/Csg. 18.18%
- Slings (rope, cable, chain, web) 9.09%
- Engines/Pumps/Machinery 9.09%
- Pipes/Collars/Tubulars/Csg. 18.18%
- Material 27.27%
- Pressure Hoses/Lines 9.09%

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Africa Water Total Recordable Incidents by Equipment (Chart 10)
Based on 44 Incidents

- Boat Cargo (skids, tubulars, containers, etc.) 4.55%
- BOP Stack (well head, tree) 13.64%
- Engines/Pumps/Machinery 9.09%
- Kelly Bushings (master bushings) 6.82%
- Slings (rope, cable, chain, web) 9.09%
- Material 11.36%
- Pressure Hoses/Lines 6.82%
- Welding, Cutting, Grinding Equipment 2.27%
- Cranes 2.27%
- Slings (rope, cable, chain, web) 9.09%
- Hand Tools: Manual 6.82%
- Pipes/Collars/Tubulars/Csg. 11.36%
- Decks (grating, walkway) 9.09%
- Chemicals (sack, drum, pail, bulk hopper) 2.27%
- Kelly Bushings (master bushings) 6.82%
Africa Water Total Lost Time Incidents by Operation (Chart 11)
Based on 13 Incidents

- Equipment Repairs or Maintenance: 15.38%
- Material Handling: Manual: 23.08%
- BOP Stack Install/Maintenance: 15.38%
- Material Handling: Crane/Cherry Picker: 7.69%
- Routine Drilling Oper.: 7.69%
- Handling Riser: 7.69%
- Tripping in/out: 7.69%
- Walking: 7.69%
- Running Casing/Tubing: 7.69%
Africa Water Total Recordable Incidents by Operation (Chart 12)
Based on 48 Incidents

- Tripping in/out: 2.08%
- Routine Drilling Oper.: 2.08%
- Running Casing/Tubing: 4.17%
- Laying Down/Picking up Tubulars: 6.25%
- Material Handling: Manual: 22.92%
- Material Handling: Crane/Cherry Picker: 12.50%
- Equipment Repairs or Maintenance: 16.67%
- BOP Stack Install/Maintenance: 8.33%
- Rigging Up/Down: 2.08%
- Making Connection: 2.08%
- Handling Riser: 4.17%
- Walking: 8.33%
- Mud Mixing/Pumping: 6.25%
- Special Operations: 2.08%
Africa Water Total Lost Time Incidents by Location (Chart 13)
Based on 13 Incidents

- Cellar / Sub / Moonpool: 15.38%
- Rig Floor: 7.69%
- Pipe Rack/Pipe Deck: 23.08%
- Living/Camp Areas/Accommodations: 7.69%
- Work Rooms change, storage, room: 7.69%
- Rig Pad/Rig Decks: 7.69%
- Catwalk/V-door: 15.38%
- Shale Shaker: 7.69%
- Derrick/Mast: 7.69%
Africa Water Total Recordable Incidents by Location (Chart 14)
Based on 47 Incidents

- Cellar / Sub / Moonpool: 10.64%
- Machinery Spaces: 2.13%
- Mud Pump Room: 8.51%
- Rig Floor: 17.02%
- Pipe Rack/Pipe Deck: 17.02%
- Living/Camp Areas/Accommodations: 4.26%
- Work Rooms change, storage, room: 6.38%
- Rig Pad/Rig Decks: 14.89%
- Stairs/Ladders: 2.13%
- SCR/Electrical Room: 2.13%
- Engine Generator Room: 2.13%
- Catwalk/V-door: 4.26%
- Derrick/Mast: 2.13%
- BOP Stack /well head/tree Area: 4.26%
- Shale Shaker: 2.13%
Africa Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 13 Incidents

- >6 mos. < 1 yr.: 7.69%
- >3 mos. < 6 mos.: 7.69%
- >1 yr. < 5 yrs.: 69.23%
- >5 yrs. < 10 yrs.: 7.69%
- 10+ yrs.: 7.69%
Africa Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 47 Incidents

- >6 mos. < 1 yr. 14.89%
- >5 yrs. < 10 yrs. 10.64%
- >1 yr. < 5 yrs. 53.19%
- 10+ yrs. 6.38%
- >3 mos. < 6 mos. 6.38%
- 0 mo. < 3 mos. 6.38%
- >6 mos. < 1 yr. 14.89%
- >1 yr. < 5 yrs. 53.19%
- >3 mos. < 6 mos. 6.38%
- 0 mo. < 3 mos. 6.38%
- >1 year < 5 yrs. 8.51%
- >5 yrs. < 10 yrs. 10.64%
Africa Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 13 Incidents
Africa Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 46 Incidents

- 0:00:00 2.17%
- 1:00 10.87%
- 2:00 4.35%
- 3:00 4.35%
- 4:00 6.52%
- 5:00 8.70%
- 6:00 4.35%
- 7:00 2.17%
- 8:00 6.52%
- 9:00 2.17%
- 10:00 6.52%
- 11:00 2.17%
- 12:00 6.52%
- 13:00 2.17%
- 14:00 4.35%
- 15:00 4.35%
- 16:00 2.17%
- 17:00 2.17%
- 18:00 4.35%
- 19:00 2.17%
- 20:00 2.17%
- 21:00 4.35%
- 22:00 6.52%
- 23:00 2.17%
- 24:00:00 2.17%
Africa Water Total Lost Time Incidents by Age (Chart 19)
Based on 13 Incidents

- 36 - 45: 46.15%
- 26 - 35: 38.46%
- 46 - 55: 7.69%
- 56 - 65: 7.69%
Africa Water Total Recordable Incidents by Age (Chart 20)
Based on 46 Incidents

- 36 - 45: 39.13%
- 46 - 55: 17.39%
- 56 - 65: 4.35%
- 26 - 35: 39.13%