IADC

IADC
ISP PROGRAM

2018

Summary of Occupational Incidents
(Middle East Water Totals)

Issued 15 June 2019
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IADC 2018 Middle East Water Totals (Table 1)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
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<tbody>
<tr>
<td>Total Man-hours</td>
<td>41,706,481</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>18</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>28</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>11</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>1</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>58</td>
</tr>
</tbody>
</table>

- MTO Incidence Rate = 0.09
- RWC Incidence Rate = 0.13
- LTI Incidence Rate = 0.06
- LTI Frequency Rate = 0.29
- DART Incidence Rate = 0.19
- DART Frequency Rate = 0.96
- Recordable Incidence Rate = 0.28
- Recordable Frequency Rate = 1.39

Companies Reporting: Water – 18

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + FTLs X 200,000
DART Incidence Rate = LTIs + RWC X 200,000
Recordable Incidence Rate = RCRD X 200,000
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Frequency Rate = RCRD X 1,000,000

Middle East Water Total Incidence Rates vs Man-hours (Figure 1)
IADC 2018 Middle East Water Charts
Middle East Water Total Lost Time Incidents by Month (Chart 1)
Based on 11 Incidents

- June: 18.18%
- May: 27.27%
- December: 18.18%
- March: 9.09%
- September: 9.09%
- August: 9.09%
- July: 9.09%
- April: 9.09%
- March: 9.09%
- December: 18.18%
- May: 27.27%
- September: 9.09%
- August: 9.09%
- July: 9.09%
- June: 18.18%

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Middle East Water Total Recordable Incidents by Month (Chart 2)
Based on 58 Incidents

- December: 12.07%
- January: 5.17%
- February: 1.72%
- March: 6.90%
- April: 12.07%
- May: 8.62%
- June: 13.79%
- July: 12.07%
- August: 10.34%
- September: 3.45%
- October: 6.90%
- November: 6.90%
- December: 12.07%
Middle East Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 11 Incidents

- Driller (Asst. Dr.) 18.18%
- Derrickman 18.18%
- Floorman 18.18%
- Roustabout (Lease Hand) 45.45%
Middle East Water Total Recordable Incidents by Occupation (Chart 4)
Based on 58 Incidents

- Floorman: 27.59%
- Roustabout (Lease Hand): 29.31%
- Driller (Asst. Dr.): 8.62%
- Derrickman: 8.62%
- Barge Engineer/Ballast Control Op.: 1.72%
- Crane Operator (Forklift Operator): 1.72%
- Mechanic (Repair Technician): 6.90%
- Motorman: 1.72%
- Electrician (Electronic Technician): 3.45%
- Toolpusher (Asst.TP, Tourpusher): 1.72%
- Superintendent/other Supervisors: 1.72%
- Catering Personnel (Camp Staff): 5.17%

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Middle East Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 11 Incidents

- Feet/Ankles: 9.09%
- Head: 9.09%
- Trunk/Torso: 9.09%
- Arm(s): 18.18%
- Hand(s) / Wrist(s): 18.18%
- Finger(s) (thumb(s)): 18.18%
- Leg(s): 18.18%
- Hand(s) / Wrist(s): 18.18%
Middle East Water Total Recordable Incidents by Body Part (Chart 6)
Based on 58 incidents

- Finger(s) (thumb(s)): 51.72%
- Hand(s) / Wrist(s): 15.52%
- Arm(s): 3.45%
- Trunk/Torso: 3.45%
- Back: 1.72%
- Head: 10.34%
- Shoulder(s): 1.72%
- Feet/Ankles: 6.90%
- Leg(s): 5.17%
- Trunk/Torso: 3.45%
- Hand(s) / Wrist(s): 15.52%
- Finger(s) (thumb(s)): 51.72%
Middle East Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 11 Incidents

- Caught On: 9.09%
- Contact With Chemicals/Fluids: 9.09%
- Slip/Fall: Different Level: 18.18%
- Caught Between/In: 45.45%
- Struck By: 18.18%
Middle East Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 58 Incidents

- Caught Between/In: 53.45%
- Struck By: 20.69%
- Struck Against: 1.72%
- Caught On: 3.45%
- Strain/Overexertion: 1.72%
- Contact With Chemicals/Fluids: 1.72%
- Debris: 1.72%
- Cut: 6.90%
- Slip/Fall: Different Level: 6.90%
- Slip/Fall: Same Level: 1.72%
- Struck Against: 1.72%
Middle East Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 11 Incidents

- Hand Tools: Manual 9.09%
- Tongs 9.09%
- Pipes/Collars/Tubulars/Csg. 18.18%
- Iron Roughneck, Pipe Spinner, etc. 9.09%
- Decks (grating, walkway) 9.09%
- Ladders 9.09%
- Material 9.09%
- Engines/Pumps/Machinery 9.09%
- Hand Tools: Manual 9.09%
- Slings (rope, cable, chain, web) 9.09%
- Chemicals 9.09%
- Pipes/Collars/Tubulars/Csg. 18.18%
- Iron Roughneck, Pipe Spinner, etc. 9.09%
- Decks (grating, walkway) 9.09%
- Ladders 9.09%
- Material 9.09%
- Engines/Pumps/Machinery 9.09%
- Hand Tools: Manual 9.09%
- Slings (rope, cable, chain, web) 9.09%
- Chemicals 9.09%

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Middle East Water Total Recordable Incidents by Equipment (Chart 10)
Based on 56 Incidents

- Hand Tools: Power: 5.36%
- Hand Tools: Manual: 8.93%
- Ladders: 7.14%
- Decks (grating, walkway): 3.57%
- Chemicals: 1.79%
- Tongs: 8.93%
- Elevators: 1.79%
- Iron Roughneck, Pipe Spinner, etc.: 3.57%
- Slings (rope, cable, chain, web): 7.14%
- Decks (grating, walkway): 3.57%
- Iron Roughneck, Pipe Spinner, etc.: 3.57%
- Engines/Pumps/Machinery: 21.43%
- BOP Stack (well head, tree): 3.57%
- Material: 8.93%
- Pressure Hoses/Lines: 1.79%
- Winch Truck: 1.79%
- Tongs: 8.93%
- Ladders: 7.14%
- Decks (grating, walkway): 3.57%
- Chemicals: 1.79%
- Tongs: 8.93%
- Elevators: 1.79%
- Iron Roughneck, Pipe Spinner, etc.: 3.57%
- Slings (rope, cable, chain, web): 7.14%
- Decks (grating, walkway): 3.57%
- Iron Roughneck, Pipe Spinner, etc.: 3.57%
- Engines/Pumps/Machinery: 21.43%
- BOP Stack (well head, tree): 3.57%
- Material: 8.93%
- Pressure Hoses/Lines: 1.79%
- Winch Truck: 1.79%
Middle East Water Total Lost Time Incidents by Operation (Chart 11)
Based on 11 Incidents

- Jacking Up/Down Operations: 9.09%
- Mud Mixing/Pumping: 9.09%
- Tripping in/out: 27.27%
- Routine Drilling Operations: 9.09%
- Laying Down/Picking up Pipe/Tub: 9.09%
- Material Handling: Manual: 18.18%
- Material Handling: Winch Truck: 9.09%
- Walking: 9.09%
- Tripping in/out: 27.27%

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Middle East Water Total Recordable Incidents by Operation (Chart 12)
Based on 55 Incidents

1. Tripping in/out: 14.55%
2. Routine Drilling Operations: 7.27%
3. Mud Mixing/Pumping: 1.82%
4. BOP Stack Install/Maintenance: 5.45%
5. Running Casing/Tubing: 7.27%
6. Laying Down/Picking up Pipe/Tub: 7.27%
7. Rig Move (Towing/Anchor Handling): 1.82%
8. Rigging Up/Down Rig Move: 1.82%
9. Material Handling: Crane/Cherry Picker: 5.45%
10. Material Handling: Manual: 12.73%
11. Well Testing: 1.82%
12. Jacking Up/Down Operations: 1.82%
13. Equipment Repairs or Maintenance: 20.00%
14. Special Operations: 3.64%
15. Rig Move (Towing/Anchor Handling): 1.82%
16. Material Handling: Forklift: 1.82%
17. Material Handling: Rig Floor Winch: 1.82%
18. Material Handling: Winch Truck: 1.82%

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Middle East Water Total Lost Time Incidents by Location (Chart 13)
Based on 11 Incidents

- Rig Pad/Rig Decks (rig/well site/location, yard): 27.27%
- Rig Floor: 27.27%
- Pipe Rack/Pipe Deck: 9.09%
- Mud Mixing Tank/Area: 18.18%
- Shale Shaker: 9.09%
- Fuel/Water Storage Tanks: 9.09%
### Middle East Water Total Recordable Incidents by Location

Based on 58 Incidents

<table>
<thead>
<tr>
<th>Location</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellar/Sub./Moonpool</td>
<td>1.72%</td>
</tr>
<tr>
<td>Mud Pump Room</td>
<td>5.17%</td>
</tr>
<tr>
<td>Fuel/Water Storage Tanks</td>
<td>1.72%</td>
</tr>
<tr>
<td>Jacking House</td>
<td>1.72%</td>
</tr>
<tr>
<td>Cherry Picker/Crane</td>
<td>1.72%</td>
</tr>
<tr>
<td>Rig Floor</td>
<td>22.41%</td>
</tr>
<tr>
<td>Pipe Rack/ Pipe Deck</td>
<td>8.62%</td>
</tr>
<tr>
<td>Catwalk/V-door</td>
<td>1.72%</td>
</tr>
<tr>
<td>Derrick/Mast</td>
<td>5.17%</td>
</tr>
<tr>
<td>BOP Stack (well head/tree) Area</td>
<td>5.17%</td>
</tr>
<tr>
<td>Mud Mixing Tank/Area</td>
<td>3.45%</td>
</tr>
<tr>
<td>Shale Shaker</td>
<td>5.17%</td>
</tr>
<tr>
<td>Machinery Spaces</td>
<td>10.34%</td>
</tr>
<tr>
<td>Camp/Accommodations Areas</td>
<td>6.90%</td>
</tr>
<tr>
<td>Cherry Picker/Crane</td>
<td>1.72%</td>
</tr>
<tr>
<td>Rig Pad/Rig Decks (rig/well site/location, yard)</td>
<td>12.07%</td>
</tr>
<tr>
<td>Work, change, storage room</td>
<td>1.72%</td>
</tr>
<tr>
<td>Engine/Generator Room</td>
<td>1.72%</td>
</tr>
<tr>
<td>Mud Pits/Tanks</td>
<td>3.45%</td>
</tr>
</tbody>
</table>
Middle East Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 11 Incidents

- >6 mos. < 1 yr. 18.18%
- >3 mos. < 6 mos. 9.09%
- >1 yr. < 5 yrs. 45.45%
- >5 yrs. < 10 yrs. 18.18%
- 10+ yrs. 9.09%

Based on 11 Incidents
Middle East Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 57 Incidents

- >1 yr. < 5 yrs.: 47.37%
- >5 yrs. < 10 yrs.: 21.05%
- 0 mo. < 3 mos.: 5.26%
- >3 mos. < 6 mos.: 5.26%
- >6 mos. < 1 yr.: 8.77%
- >10 yrs.: 12.28%
- >5 yrs. < 10 yrs.: 21.05%
- 0 mo. < 3 mos.: 5.26%
- >3 mos. < 6 mos.: 5.26%
Middle East Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 11 Incidents

- 20:00: 9.09%
- 1:00: 9.09%
- 2:00: 18.18%
- 10:00: 9.09%
- 13:00: 9.09%
- 14:00: 18.18%
- 15:00: 18.18%
- 16:00: 18.18%
- 4:00: 9.09%

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Middle East Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 58 Incidents
Middle East Water Total Lost Time Incidents by Age (Chart 19)
Based on 10 Incidents

- 26 - 35: 30.00%
- 36 - 45: 20.00%
- 46 - 55: 10.00%
- 56 - 65: 10.00%
- 18 - 25: 30.00%
Middle East Water Total Recordable Incidents by Age (Chart 20)
Based on 51 Incidents

- 26 - 35: 33.33%
- 36 - 45: 41.18%
- 46 - 55: 7.84%
- 56 - 65: 1.96%
- 18 - 25: 15.69%