

From: Rainey, David I
Sent: Tue Apr 27 15:58:35 2010
To: Wallace, Jane C. (HOU)
Subject: spill vol.xls
Importance: Normal
Attachments: spill vol.xls

<<...>>

3 worksheets x 4



CONFIDENTIAL

BP-HZN-2179MDL01769494

BPD189-126031

Oil on Water Estimate - Low

| | sq mi | gal/sq mi | gals | bbls |
|----------|-------|-----------|-------|------|
| Sheen | 1263 | 50 | 63150 | 1504 |
| Dull oil | 64 | 500 | 32000 | 762 |
| Dark oil | 39 | 1000 | 39000 | 929 |

Total oil on water 134150 3194

x 2 to compensate for evap and disp 6388

recovered 100

chemically dispersed 800

Total emitted 7288

Barrels emitted per day 1620

Oil on Water Estimate - Best Guess

| | sq mi | gal/sq mi | gals | bbls |
|----------|-------|-----------|--------|------|
| Sheen | 1263 | 100 | 126300 | 3007 |
| Dull oil | 64 | 666 | 42624 | 1015 |
| Dark oil | 39 | 1332 | 51948 | 1237 |

Total oil on water 220872 5259

x 2 to compensate for evap and disp 10518

recovered 200

chemically dispersed 2800

Total emitted 13518

Barrels emitted per day 3004

Oil on Water Estimate - High

| | sq mi | gal/sq mi | gals | bbls |
|----------|-------|-----------|--------|-------|
| Sheen | 1263 | 500 | 631500 | 15036 |
| Dull oil | 64 | 1000 | 64000 | 1524 |
| Dark oil | 39 | 1500 | 58500 | 1393 |

Total oil on water 754000 17952

x 2 to compensate for evap and disp 35905

recovered 300

chemically dispersed 4800

Total emitted 41005

Barrels emitted per day 9112

Oil on Water Estimate - Low

| | sq mi | sq km | Cov Alloc'n | litres/sq km | litres | gals | bbls |
|----------|-------|-------|-------------|--------------|--------|--------|------|
| Sheen | 1263 | 3271 | 0.30 | 300 | 294404 | 77773 | 1852 |
| Dull oil | 64 | 166 | 0.10 | 5000 | 82880 | 21894 | 521 |
| Dark oil | 39 | 101 | 0.05 | 100000 | 505048 | 133419 | 3177 |

Total oil on water 882331 233087 5550

x 2 to compensate for evap and disp

11099

recovered

100

chemically dispersed

800

Total emitted

11999

Barrels emitted per day

2667

Oil on Water Estimate - Best Guess

| | sq mi | sq km | Cov Alloc'n | litres/sq km | litres | gals | bbls |
|----------|-------|-------|-------------|--------------|---------|--------|-------|
| Sheen | 1263 | 3271 | 0.50 | 300 | 490673 | 129622 | 3086 |
| Dull oil | 64 | 166 | 0.20 | 20000 | 663037 | 175156 | 4170 |
| Dark oil | 39 | 101 | 0.10 | 200000 | 2020191 | 533678 | 12707 |

Total oil on water 3173901 838456 19963

x 2 to compensate for evap and disp

39926

recovered

100

chemically dispersed

800

Total emitted

40826

Barrels emitted per day

9073

Oil on Water Estimate - High

| | sq mi | sq km | Cov Alloc'n | litres/sq km | litres | gals | bbls |
|----------|-------|-------|-------------|--------------|---------|---------|-------|
| Sheen | 1263 | 3271 | 0.70 | 300 | 686943 | 181471 | 4321 |
| Dull oil | 64 | 166 | 0.30 | 50000 | 2486389 | 656834 | 15639 |
| Dark oil | 39 | 101 | 0.20 | 300000 | 6060572 | 1601034 | 38120 |

Total oil on water 9233503 2439339 58080

x 2 to compensate for evap and disp

116159

recovered

100

chemically dispersed

800

Total emitted

117059

Barrels emitted per day

26013

Mass Balance

| | Last 24 hrs | Cumulative |
|--------------------------|-------------|--------------|
| Oil emitted | 1000 - 6000 | 4000 - 24000 |
| Oil dispersed naturally | 200 - 1200 | 800 - 5000 |
| Oil dispersed chemically | 400 - 2400 | 800 - 4800 |
| Oil burned | 0 | 0 |
| Oil evaporated | 300 - 1750 | 1200 - 7000 |
| Oil recovered | 0 | 100 - 300 |
| Oil on water | 100 - 700 | 1200 - 7000 |

Time 14:16
Date 4.26.2010