

From: Rainey, David I

Sent: Tue Apr 27 20:01:05 2010

To: Cavanagh, Ian

Subject: spill vol4-27 1230.xls

Importance: Normal

Attachments: spill vol4-27 1230.xls

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CONFIDENTIAL

BP-HZN-2179MDL01789164

BPD189-145701

Oil on Water Estimate - Low

	sq mi	Cover Factor	gal/sq m	gals	bbls
Sheen	1500	0.5	50	37500	893
Dull oil	250	0.2	666	33300	793
Dark oil	9	0.15	3330	4495.5	107

Total oil on water 75296 1793

x 2 to compensate for evap and disp 3586

recovered 200

chemically dispersed 1000

Total emitted 4786

Barrels emitted per day 1063

Oil on Water Estimate - Best Guess

	sq mi	Cover Factor	gal/sq m	gals	bbls
Sheen	1500	0.66	333	329670	7849
Dull oil	250	0.35	1332	116550	2775
Dark oil	9	0.25	6660	14985	357

Total oil on water 461205 10981

x 2 to compensate for evap and disp 21962

recovered 450

chemically dispersed 3500

Total emitted 25912

Barrels emitted per day 5758

Oil on Water Estimate - High

	sq mi	Cover Factor	gal/sq m	gals	bbls
Sheen	1500	0.75	666	749250	17839
Dull oil	250	0.5	3330	416250	9911
Dark oil	9	0.35	13320	41958	999

Total oil on water 1E+06 28749

x 2 to compensate for evap and disp 57498

recovered 700

chemically dispersed 6000

Total emitted 64198

Barrels emitted per day 14266

Using "Extended Guidelines for the Use of the Bonn Agreement Oil Appearance Code (BAOAC)"

Oil on Water Estimate - Low

	sq mi	sq km	Cover Factor	litres/sq km	litres	gals	bbls
Sheen	1500	3885	0.5	40	77700	20526	489
Dull oil	250	647	0.2	5000	647497	171051	4073
Dark oil	9	23	0.15	50000	174824	46184	1100

Total oil on water 900021 237760 5651

x 2 to compensate for evap and disp

11322

recovered

200

chemically dispersed

1000

Total emitted

12522

Barrels emitted per day

2783

Oil on Water Estimate - Best Guess

	sq mi	sq km	Cover Factor	litres/sq km	litres	gals	bbls
Sheen	1500	3885	0.66	300	769226	203208	4838
Dull oil	250	647	0.35	20000	4532479	1197354	28508
Dark oil	9	23	0.25	100000	582747	153946	3655

Total oil on water 5884453 1554508 37012

x 2 to compensate for evap and disp

74024

recovered

450

chemically dispersed

3500

Total emitted

77974

Barrels emitted per day

17328

Oil on Water Estimate - High

	sq mi	sq km	Cover Factor	litres/sq km	litres	gals	bbls
Sheen	1500	3885	0.75	5000	14569683	3848639	91634
Dull oil	250	647	0.5	50000	16187426	4276265	101816
Dark oil	9	23	0.35	200000	1631693	431048	10263

Total oil on water 32387801 8555952 203713

x 2 to compensate for evap and disp

407426

recovered

700

chemically dispersed

6000

Total emitted

414126

Barrels emitted per day

92028

Mass Balance

	Last 24 hrs	Cumulative
Oil emitted	1000 - 6000	5000 - 30000
Oil dispersed naturally	200 - 1200	835 - 5020
Oil dispersed chemically	500 - 3000	1000 - 6000
Oil burned	0	0
Oil evaporated	300 - 1800	1500 - 9000
Oil recovered	120 - 360	230 - 690
Oil on water	180 - 1440	1500 - 10000

Time 10:01
Date 4.27.2010