

ACOPS

ADVISORY COMMITTEE ON PROTECTION OF THE SEA

**ANNUAL SURVEY OF REPORTED DISCHARGES
ATTRIBUTED TO VESSELS AND OFFSHORE OIL & GAS
INSTALLATIONS OPERATING IN THE UNITED KINGDOM
POLLUTION CONTROL ZONE
2004**

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A survey conducted on behalf of the Maritime and Coastguard Agency

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SECTION 1: SUMMARY

- 1.1 Following analysis of 1,354 incident reports and supporting information 664 separate discharges from vessels and offshore oil and gas installations were identified in the survey area during 2004. The reported discharges comprised 89.2% mineral oils, 5.1% chemicals, 0.3% vegetable or animal oils, 0.2% garbage and 5.3% other substances. An overall 13.5% increase was evident in the total number of incidents reported over the previous year's total.
- 1.2 The overall geographical pattern for vessel-source oil discharges in the survey area during 2004 did not differ significantly from that plotted during the previous year. Minor clusters were again identified near oil and gas installations operating in the northern North Sea, southern North Sea off the Norfolk coastline, Strait of Dover, western English Channel and The Minches.
- 1.3 During 2004 a total of 177 discharges were attributed to vessels and since 2000 a continuing decline in the total number of reported vessel-sourced discharges was evident at an average rate of 15% per year. During 2004 a total of 487 accidental discharges were attributable to oil and gas installations, an increase of 99 from the 2003 data. During this period, however, DTI explained that they had adopted a more pro-active approach to smaller spills requiring the oil and gas industry to submit details of discharges involving very small volumes where in the past these may not always have been submitted. Moreover, the DTI noted that whilst it is difficult to quantify the additional notifications resulting from this change in approach the total volume discharged to sea resulting from accidental oil and gas discharges fell by over 30% from 2003 to 2004.
- 1.4 Overall, 81% of discharges were reported in the open sea, 16% in ports and harbours and 3% across the remaining marine environmental zones. Further analysis of the survey statistics indicated a continuing decline in port pollution incidents attributed to vessels at an average rate of approximately 8% per year since 2000. At least 25 confirmed discharges were attributed to vessel-casualties including 12 fishing vessels, 6 pleasurecraft, 2 tugs and 3 other types of vessels. Only six beach pollution incidents were reported during 2004 and four were judged to be significant because of the types or extent of pollution.
- 1.5 Estimated volumes of discharges were recorded in 508 incident reports. The modal class for oil discharges was again less than 455 litres but larger volumes of between 1 and 50 tonnes were recorded in 9 of the 11 survey enumeration areas. The largest oil spill, 40 tonnes of light diesel oil and 1 tonne of hydraulic oil, occurred after the Mfv *Elegance* sank off the Orkneys on 5 March. The two largest chemical incidents, each of 24.6 tonnes, followed leakages of an aqueous glycol mixture and a subsea hydraulic fluid from a subsea tree cap at the *Bruce* installation. Twenty-seven discharges of 2 tonnes or more were reported during 2004 including 16 attributed to offshore oil and gas installations.

- 1.6** Crude oils accounted for 47% of all identified types of mineral oil discharges. Bunker, diesel, fuel and gas oils were spilt in varying quantities from vessels or offshore oil and gas installations on 166 occasions in all survey enumeration areas. In addition, survey respondents identified 34 chemical spills from offshore oil and gas installations including cement mix, glycol, hydrate inhibitor, methanol, silicate liquid, sim resin and triethylene glycol. Estimated volumes of chemical spills ranged from 0.1 litres to 24.6 tonnes with a median volume of 100 litres.
- 1.7** Ten successful prosecutions for oil pollution offences were concluded during the year. Total fines imposed by the competent authorities amounted to £122,200 with a mean value of £12,220. In addition, a fine of £10,000 was imposed by a Magistrates Court following a breach of Regulation 14(2)(a) of the Merchant Shipping (Prevention of Pollution by Garbage) Regulations 1998.
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SECTION 2: DESCRIPTIVE STATISTICS AND TREND ASSESSMENTS

2.1 SURVEY DESIGN

- 2.1.1** Since 1965 the Advisory Committee on Protection of the Sea (ACOPS) has compiled statistics and other information on different types of marine pollution in the waters around the British Isles. Between 1978 and 1999 the Coastguard Agency's Marine Pollution Control Unit (MPCU) commissioned an annual survey in which 10 reporting organisations submitted 20,551 reports describing 12,746 oil pollution incidents in the waters around the British Isles. The statistics have been analysed to identify long-term temporal and spatial trends.¹
- 2.1.2** In 2000 the Counter Pollution Branch (CPB) of the Maritime and Coastguard Agency (MCA) reviewed its future management information requirements concerning discharges from vessels and other offshore sources. The review considered recent developments in prevention and control of discharges from these sources. Following completion of competitive tendering exercises ACOPS was invited to continue to undertake the annual survey to a revised specification.
- 2.1.3** The differences between the past and revised survey specifications have been identified and discussed in previous annual survey reports². For some survey attributes, therefore, past and future statistics are not always directly comparable.

2.2 NUMERICAL TRENDS IN REPORTED DISCHARGES

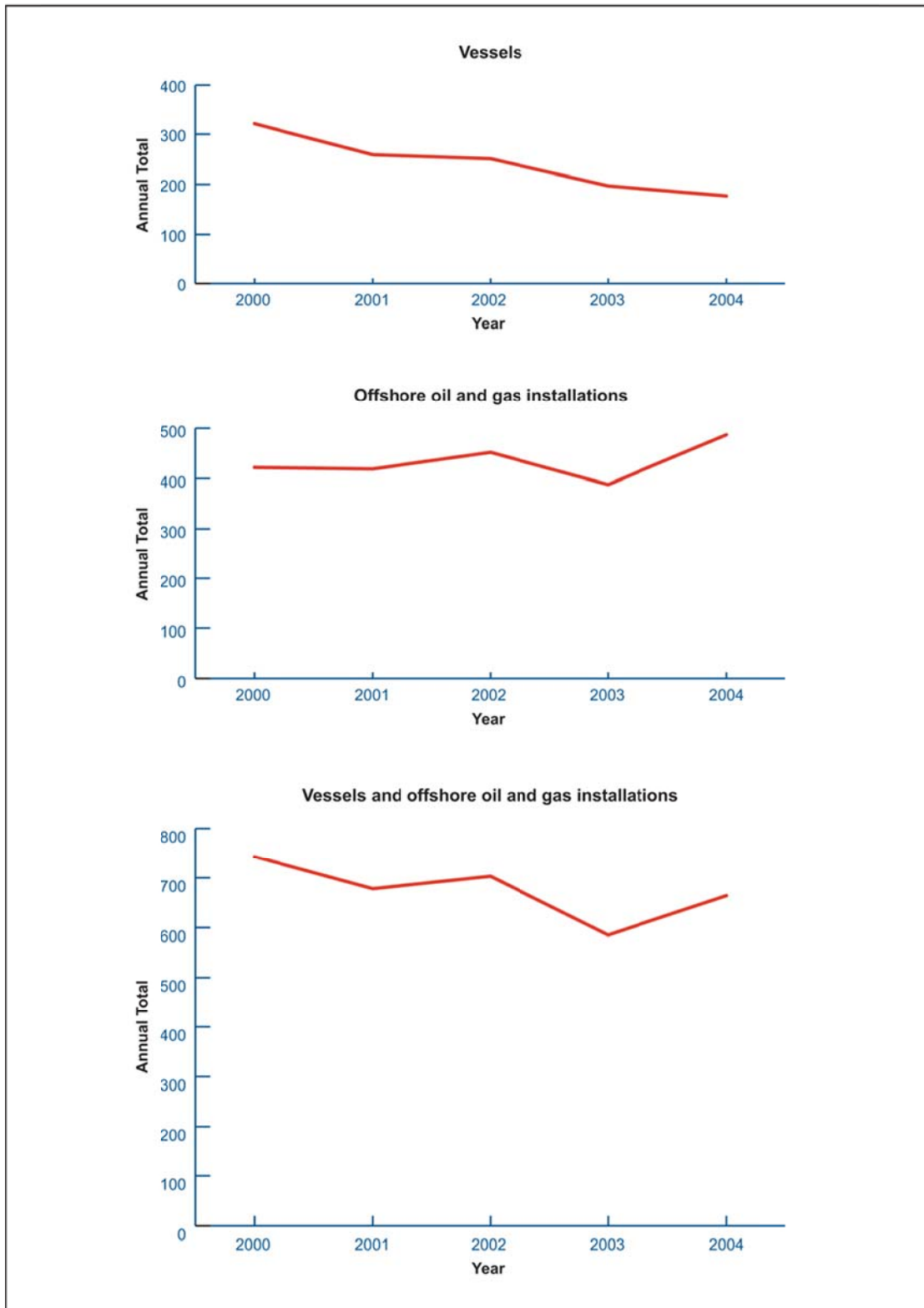
- 2.2.1** Following analysis of 1,354 incident reports and supporting information, 664 separate discharges from vessels and offshore oil and gas installations were identified within the survey area during 2004. A 13.5% increase was evident in the total number of incidents reported over the previous year's total.
- 2.2.2** Trends in annual totals for reported discharges between 2000 and 2004 are displayed in **Figure 1**, including separate line graphs for vessels and offshore oil & gas installations. A continuing decline in the total number of reported vessel-sourced discharges was evident since 2000 at an average rate of 15% per year.
- 2.2.3** During this period, however, DTI explained that they had adopted a more proactive approach to smaller spills requiring the oil and gas industry to submit details of discharges involving very small volumes where in the past these may not always have been submitted. Whilst it is difficult to quantify the additional notifications resulting from this change in approach the total

¹ Dixon, T.R. & Mansfield-Williams, M (1998). Long-term analysis of oil spill statistics for the waters around the British Isles 1964-1995. Report submitted to the Coastguard Agency by the Advisory Committee on Protection of the Sea.

² Annual Survey of Reported Discharges Attributed to Vessels and Offshore Oil & Gas Installations Operating in the United Kingdom Pollution Control Zone (2000, 2001).

volume discharged to sea resulting from accidental oil and gas discharges fell by over 30% from 2003 to 2004.

Figure 1: Annual totals for reported discharges attributed to vessels and offshore oil and gas installations 2000-2004.



2.3 CATEGORIES OF REPORTED DISCHARGES

- 2.3.1** In **Table 1** statistics are given showing the different categories and numbers of discharges reported during 2003 and 2004 for each of 11 enumeration areas. Geographical boundaries to each enumeration area and the complete survey area are shown in **Figure 2**. It should be noted that the statistics for discharges in the United Kingdom Continental Shelf (UKCS) Oil and Gas enumeration area have been presented in two source categories, offshore oil and gas installations and vessels. This amendment to the presentation of data was requested by the Department of Trade and Industry (DTI).
- 2.3.2** The discharges reported during 2004 comprised 89.2% mineral oils, 5.1% chemicals, 0.3% vegetable or animal oils, 0.2% garbage and 5.3% other substances. The total number of oil discharges reported during 2004 increased by 78 compared with the previous year's total and the difference was attributed to accidental spills from offshore oil and gas installations.
- 2.3.3** Further analysis of the data by category of pollution and enumeration area is presented in **Table 1**. No consistent pattern was evident following comparisons of the total number of incidents reported during 2003 and 2004 in each enumeration area. All chemical spills were attributed to oil and gas installations and additional details are provided in **Section 4.11**.

2.4 DISTRIBUTIONS OF REPORTED DISCHARGES

- 2.4.1** Distributions of reported discharges are presented utilising two geographical scales. To facilitate comparisons with previous years' data reported locations of vessel-source oil discharges during 2004 are plotted in **Figure 3**. Data for ports are grouped for the purposes of clarity. The locations of all reported incidents, when known, are identified in **Appendix 1** and they are further examined in each of the enumeration area reports contained in **Section 4**.
- 2.4.2** The overall geographical pattern for vessel-source oil discharges in the survey area during 2004 did not differ significantly from that plotted during the previous year. Minor clusters were again identified near oil and gas installations operating in the northern North Sea, southern North Sea off Norfolk, Strait of Dover, western English Channel and The Minches.
- 2.4.3** The geographical locations of all discharges are further analysed by their distribution across five marine environmental zones in each enumeration area; open sea, tidal river or estuary, bay or nearshore waters, beach or shore and port or harbour. The results are presented in **Table 2** which show that 81% of all discharges were reported in the open sea, 16% in ports or harbours and 3% across the remaining zones. The corresponding statistics during 2003 were 75%, 19% and 6% respectively.

TABLE 1: TOTAL INCIDENTS REPORTED BY CATEGORY OF POLLUTION AND ENUMERATION AREA FOR 2003 AND 2004 ^(a).

Enumeration Area	Mineral oils	Garbage	Vegetable & animal oils	Chemicals	Other substances	Totals
1. North-east England	6 (16)	- (-)	- (-)	- (-)	- (-)	6 (16)
2. Eastern England	13 (8)	- (-)	2 (2)	- (-)	- (-)	15 (10)
3. Essex & Kent	15 (18)	- (-)	- (-)	- (-)	1 (-)	16 (18)
4. Southern England	16 (12)	- (-)	- (-)	- (-)	- (2)	16 (14)
5. South-west England	15 (17)	- (-)	- (1)	- (-)	- (-)	15 (18)
6. Bristol Channel & South Wales	19 (24)	- (-)	- (-)	- (-)	- (-)	19 (24)
7. Irish Sea	17 (10)	- (-)	- (-)	- (-)	- (-)	17 (10)
8. Western Scotland	12 (22)	- (-)	- (-)	- (-)	- (1)	12 (23)
9. Orkney & Shetland Islands	7 (9)	- (-)	- (-)	- (-)	- (-)	7 (9)
10. Eastern Scotland	35 (30)	- (-)	- (1)	- (1)	2 (-)	37 (32)
11. UKCS oil & gas installations	421 (325)	(-)	- (-)	34 (47)	32 (16)	487 (388)
11. UKCS vessels	16 (23)	1 (-)	- (-)	- (-)	- (-)	17 (23)
Totals	592 (514)	1 (-)	2 (4)	34 (48)	35 (19)	664 (585)

(a) The figures in parenthesis are the corresponding values from the 2003 survey.

Figure 2: Boundaries of UK Pollution Control Zone and individual enumeration areas.

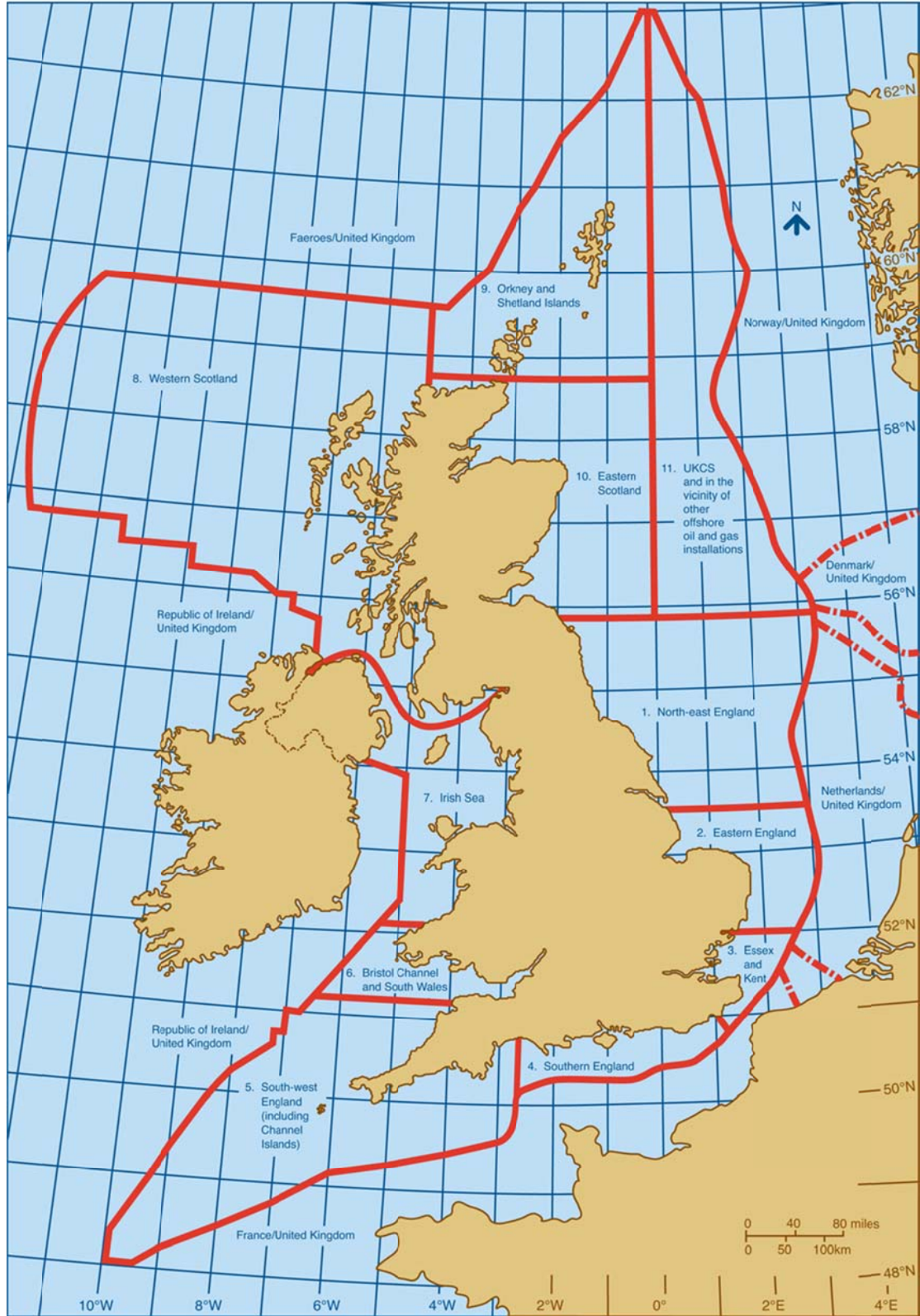


Figure 3: Locations of reported oil discharges attributed to vessels.

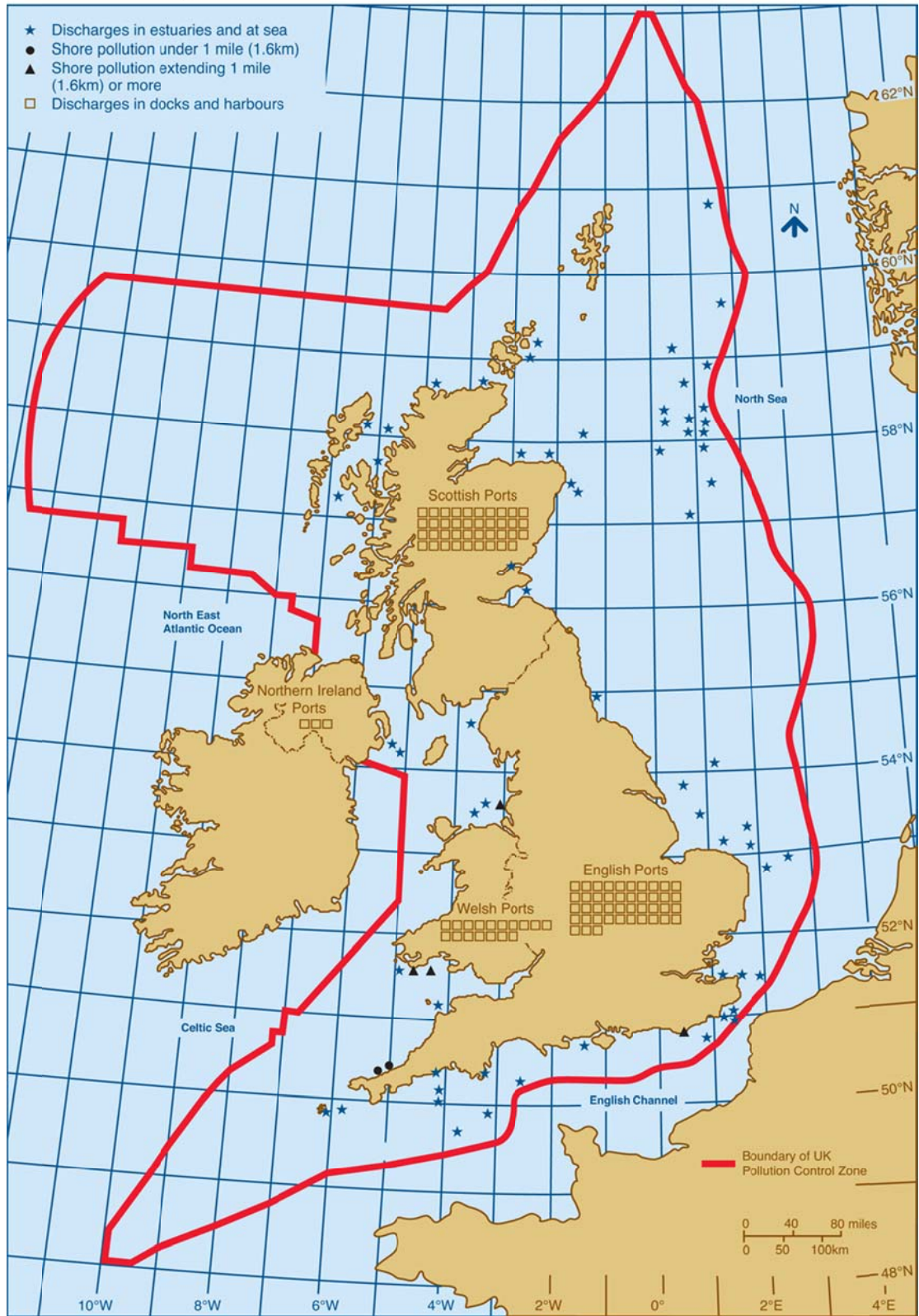


TABLE 2: TOTAL INCIDENTS REPORTED AND DISTRIBUTION BY MARINE ENVIRONMENTAL ZONE AND ENUMERATION AREA ^(a).

Enumeration area	Open sea	Tidal river/ estuary	Bay/nearshore waters	Beach/shore	Port/harbour	Totals
1. North-east England	3	-	-	-	3	6
2. Eastern England	8 (2)	-	-	-	7	15 (2)
3. Essex & Kent	7 (1)	-	-	-	9	16 (1)
4. Southern England	3	-	-	1	12	16
5. South-west England	5	-	3	2	5	15
6. Bristol Channel & South Wales	1	-	-	2	16	19
7. Irish Sea	4	-	1	1	11	17
8. Western Scotland	2	-	2	-	8	12
9. Orkney & Shetland Islands	1	-	1	-	5	7
10. Eastern Scotland	2	1	6	-	28 (2)	37 (2)
11. UKCS oil & gas installations	487 (66)	-	-	-	-	487 (66)
11. UKCS vessels	17 (1)	-	-	-	-	17 (1)
Totals	540 (70)	1	13	6	104 (2)	664 (72)

^(a) The figures in parenthesis are included in the totals and refer to incidents involving discharges of substances other than mineral oil.

2.4.4 Reporting organisations submitted details of 104 incidents involving discharges of polluting substances from vessels operating in ports or harbours and clean-up operations were completed on most occasions. Further analysis of the survey statistics indicated a continuing decline in port pollution incidents attributed to vessels since 2000 at an average rate of approximately 8% per year.

2.4.5 Only six beach pollution incidents attributed to vessels were reported during 2004. Four were judged to be significant because of the types or extent of pollution. For example, approximately 8 tonnes of a paraffin wax type of substance mixed with debris were removed from beaches in the Tenby area of Pembrokeshire during the second week of December. A further 5 tonnes of a similar substance were removed from all beaches at Eastbourne during November and December. Further details are provided in **Sections 4.4.2** and **4.6.7**. An overall reduction in beach pollution incidents attributed to vessels is evident in the survey statistics since 2000.

2.5 AMOUNT AND EXTENT OF REPORTED POLLUTION

2.5.1 Information describing observed dimensions and volumes of pollution for each enumeration area is presented in **Table 3**. It should be noted, however, that details of the extent of pollution were not available for 73% of the total number of incidents reported. Likewise, estimates for volumes of discharges were not confirmed in written reports for 156 incidents.

2.5.2 Excluding discharges from offshore oil and gas installations approximately 10% of oil slicks were greater than 1.6 km in length when this information was reported. Broadly comparable statistics from the 1985, 1995 and 2003 surveys were 15%, 15% and 6% respectively.

2.5.3 The modal class for oil discharges was again less than 455 litres but larger volumes of between 1 and 50 tonnes were recorded in 9 of the 11 survey enumeration areas. In total 12% of oil discharges were greater than 455 litres, when this information was recorded, 4% more than the previous year. The corresponding value for discharges of other substances, including chemicals, was 35%.

2.5.4 The two largest chemical incidents, each of 24.6 tonnes, followed leakages of an aqueous glycol mixture and a subsea hydraulic fluid from a subsea tree cap at the *Bruce* installation. The largest oil spill, 40 tonnes of light diesel oil and 1 tonne of hydraulic oil, occurred after the Mfv *Elegance* sank after catching fire off the Orkneys on 5 March. In **Section 3** details are provided for 27 discharges of 2 tonnes or more attributed to vessels and offshore oil and gas installations.

2.6 TYPES OF POLLUTION

2.6.1 Statistics showing the different types of discharges and polluting substances within the categories mineral oils, garbage and other substances are presented in **Table 4**. Mineral oils were again the most frequently recorded polluting

TABLE 3: AMOUNT AND EXTENT OF REPORTED POLLUTION BY ENUMERATION AREA^(a).

Enumeration area	Extent of pollution ^(b)				Estimated volumes of discharges				
	Water surface		Shoreline		1-455 litres	456 litres – 999 litres	1-50 tonnes	>50 tonnes	Not known
	≤1.6 km	>1.6 km	≤ 1.6 km	> 1.6 km					
1. North-east England	5	1	-	-	5	-	-	-	1
2. Eastern England	9	6 (2)	-	-	5	-	1	-	9 (2)
3. Essex & Kent	15 (1)	1	-	-	7	-	-	-	9 (1)
4. Southern England	14	1	-	1	12	1	1	-	2
5. South-west England	11	2	2	-	10	-	1	-	4
6. Bristol Channel & South Wales	17	-	-	2	16	-	3	-	-
7. Irish Sea	15	1	-	1	9	-	3	-	5
8. Western Scotland	10	2	-	-	8	-	2	-	2
9. Orkney & Shetland Islands	7	-	-	-	3	-	1	-	3
10. Eastern Scotland	34 (2)	3	-	-	24 (2)	3	6	-	4
11. UKCS oil & gas installations	(c)	(c)	(d)	(d)	322 (41)	26 (8)	24 (15)	-	115 (2)
11. UKCS vessels	16 (1)	1	(d)	(d)	13	-	2	-	2 (1)
Totals	153 (4)	18 (2)	2	4	434 (43)	30 (8)	44 (15)	-	156 (6)

(a) The figures in parenthesis are included in the totals and refer to incidents involving discharges of substances other than mineral oil.

(b) The units given are the maximum observed dimensions of pollution on water or the shoreline. The data were derived from 177 incident reports in which this information was recorded.

(c) Information not reported.

(d) Not applicable.

TABLE 4: IDENTIFICATION OF A SOURCE OF POLLUTION AND REPORTED TYPE BY ENUMERATION AREA.

Enumeration Area	Vessel/offshore pollution source ^(b)		Types of pollution ^(a)												
			Mineral oils					Garbage			Other substances				
	Identified	Suspected	1	2	3	4	5	6	7	8	9	10	11	12	13
1. North-east England	6	-	-	6	-	-	-	-	-	-	-	-	-	-	-
2. Eastern England	10 (1)	5 (1)	2	5	4	1	1	-	-	-	2	-	-	-	-
3. Essex & Kent	8	8 (1)	-	6	2	4	3	-	-	-	-	-	-	1	-
4. Southern England	13	3	-	12	3	1	-	-	-	-	-	-	-	-	-
5. South-west England	11	4	1	10	2	2	-	-	-	-	-	-	-	-	-
6. Bristol Channel & South Wales	17	2	1	12	2	4	-	-	-	-	-	-	-	-	-
7. Irish Sea	13	4	-	12	1	3	1	-	-	-	-	-	-	-	-
8. Western Scotland	11	1	-	9	1	2	-	-	-	-	-	-	-	-	-
9. Orkney & Shetland Islands	6	1	-	3	3	1	-	-	-	-	-	-	-	-	-
10. Eastern Scotland	30 (2)	7	-	28	4	1	2	-	-	-	-	2	-	-	-
11. UKCS oil & gas installations	487 (66)	-	250	61	63	28	19	-	-	-	-	16	34	16	-
11. UKCS vessels	3 (1)	14	7	2	1	-	6	-	1	-	-	-	-	-	-
Totals	615 (70)	49 (2)	261	166	86	47	32	-	1	-	2	18	34	17	-
Percentage of total reports	93	7	39	25	13	7	5	-	0.1	-	0.3	3	5	3	-

Key: Mineral Oils **1:** Crude oil. **2:** Bunker, diesel, fuel and gas oils. **3:** Lubrication & hydraulic oils. **4:** Other oil types. **5:** Unidentified oil.

Garbage **6:** Galley wastes. **7:** Other garbage types. **8:** Unidentified type of garbage.

Other substances **9:** Animal & vegetable oils. **10:** Synthetic & oil based mud and related products. **11:** Chemical substances.

12: Other substances. **13:** Unidentified substances.

^(a) The figures are frequencies for each of the categories shown and more than one entry may be made for each pollution incident.

(b) The figures in parenthesis are included in the totals and refer to incidents involving discharges of substances other than mineral oils.

substances and general types were identified in 95% of incident reports. Crude oils accounted for 47% of the identified types of mineral oil discharges and this figure was 1% higher than the previous year's. Reporting organisations identified four incidents involving crude oil pollution outside the UKCS enumeration. Three discharges were attributed to unidentified vessels operating in the open sea and another to a minor leakage from an oil tanker in a Welsh port.

2.6.2 Bunker, diesel, fuel and gas oils were spilt in varying quantities from vessels or oil and gas installations on 166 occasions in all enumeration areas. The spills occurred most frequently in the UKCS, eastern Scotland, Irish Sea and Bristol Channel & South Wales enumeration areas. Two POLREPS identified heavy fuel oil discharges attributed to a tanker operating off north-east England and a general cargo vessel in the Port of Ipswich.

2.6.3 Discharges of lubrication and hydraulic oils were again recorded in all enumeration areas with the exception of north-east England. Respondents described the remaining types of mineral oil discharges as base oils, bilge waste, grease, oily bilge water, oily emulsion, paraffin wax, slops, tarry lumps or tar, washings and waste oils. Tank cleaning operations were again identified as the most likely source of two palm oil discharges in the open sea off the Norfolk coastline. A single report during 2004 referred to a garbage discharge from a fishing vessel operating the UKCS enumeration area.

2.6.4 Thirty-four chemical spills, 13 fewer than the previous year, were attributed to oil and gas installations operating in the UKCS enumeration area. The most frequently identified substances or materials were cement mix, glycol, hydrate inhibitor, methanol, silicate liquid, sim resin and triethylene glycol. The volumes of spills ranged from 0.1 litres to 24.6 tonnes with a median value of 100 litres. The corresponding values for 2003 were 0.01 litres, 150 tonnes and 400 litres respectively. Further details of each incident are provided in **Appendix 1**. Details of other types of discharges, primarily oil-based mud from offshore oil and gas installations, are also provided in **Appendix 1**.

2.7 REPORTED SOURCES OF POLLUTION

2.7.1 The revised survey specification required survey data *which facilitate objective assessments of vessel/offshore sourced marine pollution in the UK pollution control zone*. In accordance with above requirement a number of assumptions were made concerning the source of a discharge which could not be attributed to particular vessel, rig, platform or other offshore installation.

2.7.2 In the open sea (including the UKCS) all confirmed reports of pollution from unidentified sources were attributed to discharges from vessels. This method of sourcing was based upon the assumption that these discharges did not originate from an unidentified land-based source or wreck.

- 2.7.3** For the remaining marine environmental zones, only confirmed or suspected discharges from vessels and rigs/platforms were included in the database. Hence, all reports of pollution from unidentified sources within these zones were automatically excluded from the annual statistics. In practice, an unidentified number of pollution reports attributed to unknown sources actually originated from vessel discharges. This method of attribution, therefore, under-estimates the true volume of pollution attributed to vessels operating in ports, nearshore waters and the tidal stretches of rivers. The resulting statistics should be interpreted accordingly.
- 2.7.4** The figures in **Table 4** show, for each enumeration area, the numbers of pollution incidents in which a vessel/offshore source was confirmed or simply suspected. From confirmed reports the different types of vessels and installations identified as sources of pollution are identified in **Table 5**.
- 2.7.5** This method of analysis showed that oil and gas installations operating on the UKCS accounted for 79% of all confirmed discharges which was 5% more than the previous year. During this period, however, DTI explained that they had adopted a more pro-active approach to smaller spills requiring the oil and gas industry to submit details of discharges involving very small volumes where in the past these may not always have been submitted. Corresponding statistics for fishing vessels, general cargo vessels, oil and chemical tankers and offshore support vessels were 7%, 4%, 1% and 3% respectively.
- 2.7.6** At least 25 confirmed discharges were attributed to vessel-casualties including 12 fishing vessels, 6 pleasurecraft, 2 tugs and 3 other types of vessels. The vessel-casualty spills occurred in all enumeration areas with the exception of north-east England, Essex & Kent and UKCS. Vessel-casualties accounted for 60% of all confirmed discharges attributed to pleasurecraft and likewise 26% of all discharges attributed to fishing vessels.
- 2.7.7** Further details identifying the likely causes of vessel-casualties, when known, are provided in **Section 4** and **Appendix 1**. Reporting organisations also identified a number of vessel-casualty incidents in which no pollution was observed. Details of these incidents are provided as footnotes in the appropriate enumeration area summary reports in **Section 4**.
- 2.7.8** Comparisons between the 2003 and 2004 statistics showed 2 fewer confirmed discharges attributed to all types of vessels operating in all marine environmental zones. However, additional discharges were attributed to fishing vessels and support vessels during 2004.
- 2.7.9** Excluding wrecks, the total of 114 confirmed oil discharges attributed to non-tanker vessels operating in all marine environmental zones during 2004 was 13% lower than the 2000-2003 mean annual total of 131 oil discharges. Likewise, the 7 tanker-source oil discharges reported during 2004 were 67% fewer than the 2000-2003 mean annual total of 21 oil discharges.

TABLE 5: REPORTED SOURCE OF POLLUTION BY ENUMERATION AREA^(a).

Enumeration area	Mct	Mfv	Msv	Mt	Mv	Ooi	Pc	Wr	O
1. North-east England	1	2	1	-	1	-	-	-	1
2. Eastern England	-	1	2	1 (1)	5	-	-	-	1
3. Essex & Kent	-	-	-	-	7	-	1	-	-
4. Southern England	-	2	-	1	4	-	4	-	2
5. South-west England	-	4	-	-	2	-	2	1	2
6. Bristol Channel & South Wales	-	12	-	2	1	-	-	-	2
7. Irish Sea	-	7	-	1	1	-	1	1	2
8. Western Scotland	-	4	-	-	-	-	1	2	4
9. Orkney & Shetland Islands	-	3	-	1	1	-	-	-	1
10. Eastern Scotland	-	10	13 (2)	1	4	-	1	-	1
11. UKCS oil & gas installations	-	-	-	-	-	487 (66)	-	-	-
11. UKCS vessels	-	1	2	-	-	-	-	-	-
Totals	1	46	18 (2)	7 (1)	26	487 (66)	10	4	16

Key: **Mct:** Chemical tanker. **Mfv:** Fishing vessel. **Msv:** Offshore support vessel. **Mt:** Coastal oil tanker/VLCC.
Mv: General cargo vessel. **Ooi:** Offshore oil or gas installation. **Pc:** Pleasurecraft. **Wr:** Wreck. **O:** Other type of vessel.

^(a) The figures in parenthesis are included in the totals and refer to incidents involving discharges of substances other than mineral oils.

2.8 PROSECUTIONS

- 2.8.1** Details of 11 prosecutions brought by the competent authorities in the United Kingdom following discharges from vessels and offshore oil & gas installations are summarised in **Table 6**. A further 10 cases had not been called at the time of reporting and details will be provided in the next annual survey report.
- 2.8.2** The DTI submitted details of two successful prosecutions brought by the Procurator Fiscal at Aberdeen Sheriff Court following accidental diesel oil spills from **Shell UK's *Cormorant Alpha*** and **Total UK's *Alwyn North*** installations in the North Sea. Fines were £7,000 and £20,000 respectively.
- 2.8.3** On the 8 September 2003 the crew of the Mv ***Lotta Kosan*** were witnessed dumping a large plastic bag and contents overboard whilst at anchor in the Western Solent. At a hearing at Southampton Magistrates Court the **Lauritzen Group** pleaded guilty to a breach of Regulation 14(2)(a) of the Merchant Shipping (Prevention of Pollution by Garbage) Regulations 1998 and were fined a total of £10,000 and ordered to pay £5,258 costs to the MCA.
- 2.8.4** Fines totalling £89,000 were imposed by the Procurator Fiscal following oil discharges from five support vessels and a fishing vessel in Aberdeen Harbour. A bilge discharge was identified as the cause of a 10 litre diesel oil discharge from a yacht moored in the Town Quay Marina at Southampton on 2 August 2004. A successful prosecution was brought against the charter owner by ABP Southampton resulting in a fine of £1,200.

2.9 REPORTING EFFORT

- 2.9.1** The number of incident reports received from each of 10 reporting organisations is shown in **Table 7**. The total number of reports received and processed was 1,354 from which 664 separate incidents were subsequently identified and entered into the 2004 database. Follow-up telephone calls and postal or email reminders were again employed to achieve the required response rates.
- 2.9.2** Observations from air surveillance patrols and a satellite surveillance programme were again employed to identify discharges from vessels and offshore oil and gas installations operating in the UKPCZ. During 2004 approximately 525 hours of shipping patrols were flown during the day and at night. A further 298 hours of rig patrols were flown during daylight hours.

TABLE 6: DETAILS OF PROSECUTIONS BROUGHT BY THE COMPETENT AUTHORITIES IN THE UNITED KINGDOM DURING 2004 (a).

Date and location of incident	Name of vessel or offshore installation and type of pollution	Prosecution brought by	Fine
12 May 2003, North Sea	Cormorant Alpha installation, 7.5 tonnes diesel oil	Procurator Fiscal	£7,000
17 June 2003, North Sea	Alwyn North installation, 6 tonnes diesel oil	Procurator Fiscal	£20,000
30 July 2003, Aberdeen Harbour	Mfv Ocean Triumph, 100 litres diesel oil	Procurator Fiscal	£500
8 September 2003, Western Solent	Mv Lotta Kosan, garbage	Maritime & Coastguard Agency	£10,000
31 October 2003, Aberdeen Harbour	Msv Northern Seeker, 100 litres diesel oil	Procurator Fiscal	£70,000
9 January 2004, Aberdeen Harbour	Msv Skandi Rona, 20 litres lubrication oil	Procurator Fiscal	£7,500
13 January 2004, Aberdeen Harbour	Msv Grampian City, 100 litres lubrication oil	Procurator Fiscal	£2,500
30 March 2004, Aberdeen Harbour	Msv Viking Victor, 30 litres diesel oil	Procurator Fiscal	£5,000
4 May 2004, Aberdeen Harbour	Msv Dea Commander, 300 litres diesel oil	Procurator Fiscal	£3,500
22 June 2004, Milford Dock	Mfv Morgenstar, 250 litres gas oil	Milford Haven Port Authority	£5,000
2 August 2004, Southampton	Pleasurecraft, 10 litres diesel oil	ABP Southampton	£1,200

(a) A further 10 cases had not been called at the time of reporting. In addition, Rhein Maas Shipping (RMS), owners of the RMS Mulheim and RMS Ratingen pleaded guilty to two breaches of Rule 5 of the Collision Regulations and two breaches of the International Safety Management (ISM) Code. Camborne Magistrates fined RMS a total of £20,000 plus full costs of £22,227.06. The prosecution followed an investigation by the MCA into 2 incidents involving the RMS Mulheim on 23 March 2003 and RMS Ratingen on 24 March 2003 (Refer 2003 Annual Report SW/939).

Prosecutions brought under Prevention of Oil Pollution Act 1971, Control of Pollution Act 1974, Merchant Shipping Act 1995, Merchant Shipping (Prevention of Oil Pollution) Regulations 1996, Merchant Shipping (Dangerous or Noxious Liquid Substances in Bulk) (Amendment) Regulations 1996, Merchant Shipping (Prevention of Pollution by Garbage) Regulations 1998.

TABLE 7: TOTAL NUMBER OF INCIDENT REPORTS RECEIVED FROM EACH REPORTING ORGANISATION.

Reporting organisations	Total number of reports received
Sea Fisheries Committees in England & Wales	11
United Kingdom Ports	160
Scottish Local Authorities	31
Department of Trade & Industry	539
Environment Agency	29
English and Welsh Local Authorities	134
Maritime and Coastguard Agency	427
Northern Ireland Environment & Heritage Service	6
Scottish Environment Protection Agency	8
Scottish Society for the Prevention of Cruelty to Animals	9
Grand Total	1,354

SECTION 3: SUMMARY OF LARGER DISCHARGES (TWO TONNES OR MORE) DURING 2004

(Refer to **Section 4** and **Appendix 1** for further details of each incident).

The figures given below are indicative of the volumes of pollution confirmed in written reports. However, incidents in which significant amounts of beach material were mixed with pollutants, or where the volumes of pollution were not indicated or measured, are not included.

3.1 Orkney and Shetland Islands 5 March (09-OS/028).

The Mfv *Elegance* carrying **40 tonnes** of light diesel oil and **1 tonne** of hydraulic oil sank after catching fire and a slight sheen was sighted extending downwind from the wreck position. No further reports of pollution were received.

3.2 UKCS 24 January (11-UKCS/1003).

A **24.6 tonne** chemical spill was reported by the *Bruce* installation which was due to the failure of the internals of a subsea tree cap.

3.3 UKCS 10 May (11-UKCS/235).

The *Bruce* installation reported a second chemical incident following a **24.6 tonne** leakage of an aqueous glycol mix (Oceanic HE443) from a subsea tree cap. A detailed investigation had been initiated at the time of reporting. An environmental assessment showed a negligible local impact and the necessary repairs were completed on the same day.

3.4 UKCS 10 November (11-UKCS/574).

Approximately **15.3 tonnes** of oil-based mud containing an estimated **7.3 tonnes** of oil were accidentally discharged from the *North Cormorant* installation.

3.5 UKCS 13 February (11-UKCS/1012).

Mechanical failure was identified as the cause of a **14 tonne** accidental discharge of cement mix from the *Forties Echo* installation.

3.6 UKCS 14 January (11-UKCS/994).

An accidental discharge of **8.1 tonnes** of water-based mud was reported by the *Douglas* installation on 14 January. This was a result of leakage of dump valves and incorrect valve line up during displacement and change out of the drilling mud system.

3.7 Bristol Channel and South Wales 10 December (06-BC/793).

During the second week of December approximately **8 tonnes** of a non-toxic paraffin wax type of substance mixed with debris were collected and removed from beaches in the Tenby area of Pembrokeshire. Similar types of polluting substances were washed ashore during the previous month at Eastbourne (refer 04-SE/715) and at Freshwater in Pembrokeshire (refer 06-BC/796).

3.8 UKCS 1 July (11-UKCS/357).

An overflow from a bunkering tank was identified as the cause of a **7.4 tonne** diesel spillage from the *Lomond* installation.

3.9 UKCS 31 May (12-UKCS/265).

A large crude oil slick with an estimated volume of **7 tonnes** was attributed to a discharge from an unidentified vessel in the North Sea.

3.10 UKCS 6 January (11-UKCS/046).

A leaking subsea manifold was identified as the source of a **6.75 tonne** discharge of methanol from the *Cleeton* installation in the Whim Field. Repairs were completed within two weeks.

3.11 UKCS 23 February (11-UKCS/098).

Fishing operations may have ruptured the 10 cm **Bacton** to **Leman** chemical pipeline causing a **5.06 tonne** spill of glycol and a corrosion inhibitor.

3.12 UKCS 20 January (11-UKCS/054).

The *A2D Platform* in the Amethyst Field reported a **5 tonne** spillage of methanol. The spill was caused by a seal failure and the system was quickly shut down and isolated.

3.13 Western Scotland 7 September (08-WS/337).

The Mtug *Vanguard* was beached on the island of North Rona after an ingress of water. The vessel sustained hull damage and a diesel sheen extending for more than 3 km² with an estimated volume of **5 tonnes** was later reported by an MCA aircraft tasked to the area. Most of the fuel and other potentially harmful substances were removed from the vessel and booms were deployed to prevent any further pollution. The vessel was later raised and pumped out.

3.14 Southern England 8 November (04-SE/715).

Approximately **5 tonnes** of engine grease mixed with debris were removed by handpicking from all beaches along the seafront at Eastbourne between 8 November and 20 December. An unidentified passing vessel was judged to have been the most likely source of the pollution. A sample was sent to the Environment Agency for analysis.

3.15 Eastern Scotland 6 January (10-ES/030).

The Mv *Green Ice* accidentally discharged **4.5 tonnes** of heavy diesel oil into Fraserburgh Harbour and a clean-up operation was completed over 2 days.

3.16 Irish Sea 1 October (07-IS/520).

Approximately **4.5 tonnes** of diesel oil escaped to sea after the Mfv *Quiet Waters* sank in the Irish Sea. The pollution was dispersed by wave action.

3.17 Eastern England 24 September (02-EE/309).

Approximately **4 tonnes** of heavy fuel oil were accidentally discharged from the Mv *Haci Emine Ana* into the River Orwell at the Port of Ipswich. The incident occurred during a fuel transfer operation and a clean-up operation failed to prevent some local contamination of riverbanks.

- 3.18 UKCS 24 August (11-UKCS/443).**
Approximately **3.8 tonnes** of water-based drilling mud were accidentally discharged to sea from the *Arbroath* installation.
- 3.19 Eastern Scotland 5 October (10-ES/525).**
A large diesel sheen was reported after the Mfv *Faith Ann* (49gt, built 1978) hit rocks and sank in Loch Eriboll with **3.5 tonnes** of diesel oil and **100 litres** of lubrication oil onboard.
- 3.20 UKCS 29 August (11-UKCS/446).**
Produced Water Plant instability on start-up was identified as the cause of a maximum spillage of **3.2 tonnes** of crude oil from the *Murchison* installation.
- 3.21 UKCS 21 July (12-UKCS/391).**
An unidentified passing vessel was identified as the source of a patch of oil with an estimated volume of **2.5 tonnes** reported by the Alba North installation.
- 3.22 Bristol Channel and South Wales 26 November (06-BC/796).**
During the last week of November **2.5 tonnes** of an oil-based non-toxic paraffin wax mixed with debris were manually collected and removed from a 2 km stretch of the Freshwater West Beach in Pembrokeshire.
- 3.23 Western Scotland 19 December (08-WS/524).**
The Mfv *Audacious* sank near Stornoway carrying **2.3 tonnes** of marine diesel fuel. A slick was later observed above the wreck site and later dispersed by wave action. No further reports of pollution were received.
- 3.24 UKCS 5 April (11-UKCS/197).**
The *Magnus* installation reported a **2 tonne** leakage of lubrication oil from a main generator cooling system into the sea over a period of approximately 1 to 2 days. Repairs were promptly completed after the leak had been identified.
- 3.25 UKCS 9 May (11-UKCS/234).**
A gasket failure was identified as the cause of a **2 tonne** accidental spillage of a heating medium from the *Gannet Alpha* installation.
- 3.26 UKCS 27 May (11-UKCS/253).**
A subsea well was isolated at the *Beryl Bravo* installation following a **2 tonne** crude oil spill.
- 3.27 UKCS 1 December (11-UKCS/591).**
The *Trent* installation reported a **2 tonne** spill of triethylene glycol caused by faulty level transmitters.
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SECTION 4

ENUMERATION AREA SUMMARY REPORTS

- 4.1 North-east England
- 4.2 Eastern England
- 4.3 Essex & Kent
- 4.4 Southern England
- 4.5 South-west England
- 4.6 Bristol Channel & South Wales
- 4.7 Irish Sea
- 4.8 Western Scotland
- 4.9 Orkney & Shetland Islands
- 4.10 Eastern Scotland
- 4.11 UKCS (oil & gas installations and vessels)

4.1 North-east England (Northumberland, Tyne & Wear, Durham, Yorkshire and The Humber).

- 4.1.1** Six confirmed vessel-source pollution incidents were identified during 2004 compared with 16 incidents during the previous year. All incident reports referred to oil discharges and these occurred in equal numbers in ports and in the open sea.³
- 4.1.2** Three oil spills were recorded in the ports and harbours of north-east England during 2004. A POLREP described a 100 litre bunkering spill from the Mtug *Afon Alaw* at Hull's Alexandra Dock on 29 January. The diesel oil was quickly dispersed by tidal action. The Mfv *Novantae* keeled over in Bridlington Harbour causing a minor spillage of diesel on 20 June. An Environment Agency (EA) report noted that a clean-up operation was completed and further actions were not required.
- 4.1.3** Warkworth Harbour Commissioners and EA submitted details of another port spill on 23 September. A split fuel tank caused a 220 litre spillage of diesel oil into the bilge of the Mfv *Dawn Mist*. Approximately 20 litres escaped into the harbour before the automatic bilge pump could be closed down. Absorbant booms were deployed to remove the pollution from the water surface and the costs of the clean-up operation were later recovered from the fishing vessel's owner.
- 4.1.4** Three POLREPS referred to discharges in the open sea during the year and a source of pollution was identified on each occasion. An 8 km long oil slick was observed trailing the Mctanker *Bro Traveller* off Spurn Head on 18 March. The type of pollution was later identified as heavy fuel oil and attributed to residues washed off the deck following an earlier bunkering spill at Grangemouth.
- 4.1.5** The Mv *Borden* was identified as the source of an estimated 65 litre fuel oil discharge off the River Tyne on 16 September. A split diesel fuel valve was identified as the cause of a 100 litre spill from the Msv *Putford Aries* operating near the Ravenspurn North Platform on 19 September.

³ In addition the charter boat *Blue Dawn* sank off Sunderland on 12 February but no pollution was reported.

4.2 Eastern England (Lincolnshire, Norfolk & Suffolk).

- 4.2.1 Reporting organisations identified 15 vessel-source discharges in the ports and harbours of eastern England and adjacent waters during 2004 compared with 10 discharges during 2003. Further analysis of the information contained in 46 questionnaire returns, and other reports, indicated that a source of pollution was identified on 10 occasions including a fishing vessel, a dredger, 2 support vessels and 6 general cargo vessels. There were no references to any beach pollution incidents in the 2004 reports. Accidental discharges from gas installations operating off Eastern England were included in the statistics for the UKCS (Refer to area 11 report for UKCS).⁴
- 4.2.2 Three spills were reported by the Port of Felixstowe during the year. The Mdredger *Sospan Dau* accidentally spilt 300 litres of hydraulic oil on 2 April and the pollution was later dispersed by tidal action. A further 15 litres of lubrication oil were accidentally discharged from the Mv *Maersk Flanders* in the same location on 18 May. Absorbant booms were deployed to prevent pollution following a 50 litre oil spill from the Mv *MSC Austria* berthed at Felixstowe on 16 July.
- 4.2.3 Minor oil spills in ports were also recorded at Boston, Great Yarmouth and Lowestoft during 2004. The Mfv *Morning Flight* sank on its moorings in Boston Harbour on 17 April and a POLREP report described a bunkering spill from the Msv *Putford Athena* at Great Yarmouth on 28 April. A clean-up operation was required following a similar spill from the Msv *Putford Shore* berthed in Lowestoft Harbour.
- 4.2.4 Five reporting organisations submitted information describing an incident at the Port of Ipswich on 24 September. Approximately 4 tonnes of heavy fuel oil were accidentally discharged into the River Orwell from the Mv *Haci Emine Ana* during a fuel transfer operation. Rapid deployment of deflection and absorbant booms failed to prevent local contamination of riverbanks. Advice was taken from both English Nature and the EA in carrying out the clean-up operation and the total cost amounted to £40,000. ABP Ipswich noted that legal proceedings had been initiated against the alleged offender but no further details were available at the time of reporting.
- 4.2.5 Five oil slicks and two discharges of palm oil were recorded in the open sea off eastern England during the year. The palm oil discharges were believed to have followed tank cleaning operations. Two reporting organisations drew attention to an unusual incident involving a continuous discharge of lubrication oil from the starboard stern tube of the ro-ro ferry *The Pride of Provence* (28,559 gt, built 1983) between Dover and the River Tyne. After discovering the leakage the Master of the vessel changed course at Dover and proceeded to the River Tyne for repairs and the rate of the discharge was estimated at 200 litres per hour. In addition, the vessel's stern tube header

⁴ In addition the Mfv *Lady Marique* sank off The Wash on 30 March but no pollution was sighted.

tanks were topped up with water soluble lube oils to minimise the pollution impact of the leakage.

- 4.2.6** The Msv *Putford Athena* reported sighting pollution from passing vessels in the vicinity of the Hewett Gasfield on 1 November and 8 November and samples were taken from the water surface on both occasions.
-

4.3 Essex and Kent.

- 4.3.1 The reported sources and geographical distribution of vessel-source pollution incidents were again very similar to those recorded in previous years. Respondents identified sixteen polluting discharges from vessels operating in ports and the open sea and most involved comparatively small quantities of fuel oils or oily wastes.⁵ There were no further reports of any pollution attributed to the wrecks of the Mv *Tricolor* and Mtanker *Prestige* (Refer to section 4.3 of the 2003 Annual Report).⁶ Eighteen polluting discharges were reported during 2003.
- 4.3.2 In Essex reporting organisations submitted details of 3 minor oil discharges in the port of Harwich. On 25 April a small oil sheen on the water surface was attributed to an unidentified passing vessel. Another minor discharge was traced to the Mv *Brega Star* berthed at the Navyard on 19 May and a third sheen was reported on 1 June. An EA report noted that a bilge discharge from a privately owned ex-minesweeper caused another minor pollution incident on 26 July at Mistley Quay.
- 4.3.3 Another 3 oil discharges were recorded by the Dover Harbour Board during the year. Approximately 50 litres of hydraulic oil were accidentally discharged from the *Seafrance Renior* on 30 March. Booms, absorbant pads and other equipment were deployed in a clean-up operation following a 50 litre fuel oil spill from the Mv *Black Prince*. Later in the year another ro-ro ferry Mv *Cezanne* was identified as the source of a 100 litre bilge oil discharge in the same location.
- 4.3.4 Kent County Council and Medway Port Authority reports described a 200 litre spillage of hydraulic oil from the Mbarge *Dina* near the Isle of Grain on 29 June. A clean-up operation recovered most of the pollution with absorbant booms. A hose failure was identified as the cause of a 50 litre oil slops spillage from the *Arco Humber* operating in the Thames Estuary on 10 September. The Port of London Authority report also noted that a clean-up operation was successfully completed.
- 4.3.5 Respondents identified a further 6 oil discharges from vessels operating in the open sea off the Kent coast. All were relatively minor in nature and the

⁵ In addition a small jack-up barge broke up after being washed ashore at Palm Bay on 7 July (*Lloyd's List*, 8 & 9 July). No pollution was reported.

⁶ The Norwegian registered vehicle carrier Mv *Tricolor* (49,792 gt, built 1987) capsized and sank in French waters 32 km northwest of Dunkirk on 14 December 2002 following a collision with the containership Mv *Kariba* (20,829 gt, built 1982). A salvage operation involving removal of all polluting substances, individual sections of the vessel's hull and a cargo of luxury cars was completed on 27 October 2004 (*Lloyd's List*, 28 October 2004).

The Bahamas registered tanker *Prestige* (42,820 gt), laden with 77,000 tonnes of heavy fuel oil broke in two and sank 260 km west of Vigo (Spain) on 19 November 2002. Recovery of 13,600 tonnes of fuel oil that sank with the tanker to a depth of almost 4,000m was completed in October 2004. Approximately 700 tonnes remains adhered to the inside of the hull and this will be neutralised by bacterial action (*Lloyd's List*, 5 & 6 October 2004).

pollution was usually dispersed by wave action. A bilge tank discharge from an unidentified vessel was believed to have been the cause of a large oil sheen reported off the North Foreland on 9 May. A smaller light sheen was reported by Atlantic 406 off Dover on 12 May. Molasses bilge water was identified as a polluting substance in a Kent County Council report and a small patch of diesel oil was sighted near the Varne Light Vessel on 2 December.

4.4 Southern England (East and West Sussex, Hampshire, Dorset and the Isle of Wight).

- 4.4.1 Reporting organisations identified 16 incidents involving oil discharges from vessels operating in this enumeration area during 2004 compared with 14 incidents during the previous year. Twelve discharges were recorded in local ports and harbours, 3 discharges in the open sea and a single incident affected the shoreline. A source of pollution was identified on 13 occasions including fishing vessels, general cargo vessels, pleasurecraft and a tanker.⁷
- 4.4.2 Approximately 5 tonnes of engine grease mixed with debris were removed by handpicking from all beaches along Eastbourne Seafront between 8 November and 20 December. A sample of the grease was analysed by the EA and confirmed as non-toxic. An unidentified passing ship was judged to have been the most likely source of the pollution.
- 4.4.3 Newhaven Port and Properties Limited described a 100 litre fuel oil spillage from the French-flagged Mv *Dieppe* on 20 June. The incident was caused after a bilge holding tank overflowed. An absorbant boom and pads were deployed in the clean-up operation and the costs were passed to the vessel's owners.
- 4.4.4 Two oil spills were reported at Southampton during the year. A bilge discharge was identified as the cause of a 10 litre diesel oil spill from a yacht moored in the Town Quay Marina on 2 August. A successful prosecution brought against the charter owner by ABP Southampton resulted in a fine of £1,200. The Mtug *Betty* sank on its moorings in Southampton Docks on 26 October and approximately 50 litres of diesel oil and hydraulic oil escaped from the wreck. A clean-up operation removed all pollution from the harbour area.
- 4.4.5 The Mtanker *Vinga Matilda* was identified as the source of a small discharge of hydraulic oil at the Fawley Refinery on 14 January. Poole Harbour Commissioners and the MCA described 3 spills in Poole Harbour during 2004. The Mfv *Cornish Light* was identified as the source of a fuel oil spill on 24 May. Washing-up liquid and propeller agitation successfully dispersed a patch of diesel oil following a 30 litre spill from the Mfv *Sunshine*. An unidentified pleasurecraft sank on its moorings in Holes Bay on 23 November.
- 4.4.6 A defective engine room lubricating oil pump was identified as the cause of a 30 litre spillage from the RFA *Black Rover* in Portland Inner Harbour. A

⁷ Reporting organisations submitted details of 5 further vessel-casualty incidents in which no pollution was reported. The motor yacht *HG3* caught fire off Peveril Point and eventually sank in the middle of Poole Bay on 13 July. The motor cruiser *Jane* hit rocks in Weymouth Bay on 1 August and the motor launch *Freedom* sank in Poole Harbour on 7 August after hitting a submerged object. A spud leg barge *Long Rock* capsized off Bonchurch, Isle of Wight, on 17 October spilling 1,000 tonnes of rock, railway sleepers and industrial machinery into the sea (*Lloyd's List*, 19 & 20 October). On 21 October a small jack-up rig broke its moorings in severe weather and washed up on the shore at Seaford Bay. The rig was totally destroyed by the sea and salvage teams cleared the beach of resulting debris (*Lloyd's List*, 22, 26 & 28 October).

similar sized fuel oil spill was attributed to the Mv *Regele Ferdinand* in the same location on 20 July. Clean-up operations using absorbant materials were carried out on each occasion.

- 4.4.7** A light diesel oil slick more than 2 km long was sighted off Dungeness on 13 August. Two days later approximately 500 litres of diesel oil escaped to sea after the motor cruiser *Sheer Grace* caught fire in Studland Bay. The vessel was towed out to deeper and safer waters in Poole Bay where it burnt out and sank safely. The pollution was dispersed by wave action. A POLREP referred to a fuel oil discharge from the Mv *Panam Atlantico* in the Casquets southbound lane. A Port State Control inspection was carried out when the vessel arrived in Bilbao.
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4.5 South-west England (Devon, Cornwall, Isles of Scilly, Channel Islands and the Western Approaches).

- 4.5.1 Fifteen incidents were reported during 2004 compared with 18 incidents during the previous year. Three incidents were judged to be significant in terms of the reported extent of pollution or by estimated volumes of discharges. A specific source of pollution was identified on 11 occasions including 4 vessel-casualties. Fuel oils were again the most frequently reported types of pollution.⁸
- 4.5.2 The Mfv *Valerie May* sank in Looe Harbour on 10 April. An absorbant boom was deployed to remove a light diesel sheen and the vessel was refloated on the next tide. The EA submitted details of another vessel-casualty spill after a fishing vessel sank in Sutton Harbour on 4 November. Approximately 1.2 tonnes of diesel leaked from the vessel before it was salvaged and a clean-up operation was completed. During August a fishing vessel ran aground at St. Agnes in the Scillies causing a minor spillage of diesel oil.
- 4.5.3 A POLREP identified the wreck of the Mv *James Egan Lane* as the source of patches of diesel oil. The vessel sank in Whitsand Bay in 1945 and it was noted that ownership of the wreck was being pursued should further leakage occur and clean-up action be required.
- 4.5.4 Swimmers on Fistral beach reported to lifeguards that they were smattered with small globules of crude oil and that the beach smelled strongly of oil. HMCG (Newquay) attended and collected samples of the oil on 26 August. An EA report referred to another beach pollution incident in Holywell Bay on 24 September. A clean-up operation was organised by Caradon District Council to remove the weathered oil residues.
- 4.5.5 Five discharges to the open sea were reported during the year. An 18 km long rainbow sheen with an estimated volume 30 litres was identified during an Atlantic Reconnaissance flight on 12 March. The Italian warship *Luigi Durand De La Penn* operating 16 km south of Plymouth lost 40 litres of fuel oil overboard. Another military vessel the RFA *Argus* reported a loss of dirty bilge water caused by a faulty oily water separator. Both military vessels assisted the dispersion of oil by propeller agitation.
- 4.5.6 Tank washings from a general cargo vessel were identified as the source of large oil slick sighted in the vicinity of the Casquets TSS on 27 July. Another general cargo vessel Mv *Vityaz* was responsible for a 30 litre discharge of gas oil in the vicinity of the Isles of Scilly TSS on 10 December. An MCA aircraft

⁸ In addition Cornwall County Council Emergency Planning submitted details of three incidents in which 4 drums were recovered on beaches. At least 3 drums contained chemicals and were recovered in a leaking condition. The French fishing vessel *Cap Bugaled Breizh* (103 gt, built 1986) capsized and sank approximately 22 km south-west of Lizard Point on 15 January. The vessel was later recovered from the seabed and no pollution was reported (*Lloyd's List*, 19 & 20 January, 30 June & 15 July). Another French fishing vessel *Duguesclin* sank off St Anthony's Lighthouse on 25 January and no pollution was reported.

was tasked to the area and the Enforcement Unit reported taking follow up action.

- 4.5.7** Another POLREP report described an incident in the Lands End TSS in which three sheen slicks from a suspected diesel oil discharge from a general cargo vessel were later correctly attributed to a clean ballast water discharge.
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4.6 Bristol Channel and South Wales (Somerset, Bristol, Gloucestershire, Monmouthshire, Cardiff, Newport, Vale of Glamorgan, Bridgend, Neath & Port Talbot, Swansea, Carmarthenshire and Pembrokeshire).

4.6.1 Accidental discharges from vessels in ports and harbours were again the major characteristic of the annual pollution statistics accounting for 16 of 19 incidents identified by reporting organisations. Most discharges involved relatively small quantities of fuel oils and clean-up operations were usually completed after each discharge. Three incidents, however, involved significant quantities of pollutants including 10.5 tonnes of paraffin wax mixed with debris removed from two stretches of coastline. A source of pollution was identified on 17 occasions including 12 spills attributed to fishing vessels.⁹ During 2003 reporting organisations identified 24 pollution incidents.

4.6.2 The EA, Milford Haven Port Authority (MHPA) and Pembrokeshire County Council (PCC) submitted detailed accounts of 12 vessel-source oil pollution incidents at Milford Dock, Milford Haven Waterway and Neyland Marina. Estimated volumes were provided for all discharges and the median volume was 4 litres compared with 50 litres for the previous year. Individual spill volumes ranged from 1 litre to 250 litres and the total volume of oil spilt amounted to 481 litres. All incidents were attributed to fishing vessels with the exception of a single oil tanker.

4.6.3 A fuel tank overflow during an internal transfer caused a 250 litre spillage of diesel oil from the Mfv *Morgenstar* in Milford Dock on 22 June. The clean-up operation was completed by a contractor on the same day. Legal proceedings brought by the MHPA resulted in a successful prosecution and a fine of £5,000. During the hearing it was established that the vessel was unmanned at the time of the incident. Moreover, the same vessel was responsible for another oil discharge in the same location earlier in the day.

4.6.4 The Mfv *Reaper* sank at its berth in Neyland Marina on 22 December and approximately 136 litres of diesel oil escaped from the fuel tank ventilator. A clean-up operation was completed by a contractor with the support of local authorities. A further 50 litres of diesel oil were spilt on 21 May whilst the Mfv *Grampian Avenger II* was refuelling in Milford Dock. The only tanker incident reported in Milford Haven during the year occurred on 9 May following a 1 litre leakage of crude oil from the bow loading coupling of the Mtanker *Karen Knutsen*.

4.6.5 Elsewhere, oil spills in ports or harbours were recorded at Bristol, Burry, Chepstow and Fishguard. The Bristol Port Company reported a 10 litre spillage of lubrication oil from the Mv *Raven Arrow* in the Royal Portbury Dock. A POLREP described a 20 litre diesel spillage at the entrance to the River Wye after the Hopper dredger *Breckland* (1181 gt, built 1960) hit a rock

⁹ In addition a Pembrokeshire County Council report referred to an incident in which a lost box container broke open and spilt its contents of refrigerators at Presipe Bay on 19 September. A clean-up operation was carried out and an attempt was being made to recover costs through an insurance claim against the vessel's owners.

and sank on 2 September (*Lloyd's List*, 8 & 9 September). Potential pollutants were removed from the vessel the following day as part of a salvage operation

- 4.6.6** Three reporting organisations described a significant incident at Burry Port Harbour after a barge with a 1.2 tonne diesel oil bowser on board sank during adverse weather conditions on 4 October. The pollution was contained within one corner of the harbour and a clean-up operation was completed by a local contractor. A deliberate discharge of bilge water mixed with dispersant was attributed to the Mfv *Mariane* in Fishguard Harbour.
- 4.6.7** Two PCC reports referred to extensive beach pollutions at Freshwater West Beach and Tenby during the last week of November and second week of December respectively. In both locations samples were taken and the polluting substance was identified as non-hazardous oil-based paraffin wax.
- 4.6.8** Nets wrapped in a propeller shaft caused a minor leakage of hydraulic oil from the Mtanker *Mariella*. The MHPA refused the vessel entry in port until after the necessary temporary repairs had been completed.
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4.7 Irish Sea (Cardiganshire, Gwynedd, Anglesey, Aberconwy & Colwyn, Denbighshire, Flintshire, Merseyside, Lancashire, Cumbria, Isle of Man and all Districts of Northern Ireland).

4.7.1 Seventeen vessel-source pollution incidents were identified by reporting organisations during 2004 compared with 10 incidents during the previous year. Most incidents involved minor discharges of diesel oil from fishing vessels in local ports and harbours. Accidental spills from oil and gas installations operating in Morecambe Bay were included in the statistics for the UKCS (Refer area 11 UKCS report).¹⁰

4.7.2 Three reports referred to diesel or gas oil spills from fishing vessels in Holyhead Harbour during May and August. Absorbant booms and pads were deployed to contain and remove the pollution from the water surface on each occasion. There were no references to any beach pollution incidents in the mid or north-Wales areas during the year.

4.7.3 Reporting organisations recorded four incidents in the ports of the eastern Irish Sea at Fleetwood, Liverpool and Workington. On 8 March the plough barge *Menno* developed a twenty degree list due to an unexpected spring tidal reach which caused a 1 tonne spillage of diesel oil from a fuel vent pipe into Fleetwood Harbour. The pollution was quickly dispersed over a wide area during the next tidal cycle and small pockets were cleaned up by harbour authority personnel. In the same locality the Mfv *Our Vanclaire* caught fire on 17 September resulting in a 25 litre gas oil discharge to the River Wyre.

4.7.4 A POLREP referred to a 15 litre bunkering spill from the containership Mv *Sybille* berthed at the Seaforth Docks on 4 June. Most of the pollution was recovered from the water surface. An overload on a bypass system caused 5 litre diesel spill from the Mtanker *Crescent Oratuna* in Workington Harbour. The pollution was contained within the dock complex and dispersed naturally. The ketch *Ellen Vannin* ran aground on rocks outside Whitehaven Harbour causing a 5 litre hydraulic oil spillage.

4.7.5 The Northern Ireland Environment and Heritage Service submitted details of spills in ports and harbours at Kilkeel, Carrickfergus and Warrenpoint. The sources of pollution were identified on 2 occasions including a fishing vessel and a workboat. Ramsey Harbour reported a clean-up operation following minor diesel spill from a local fishing vessel on 29 February.

4.7.6 A standby vessel broke up and dispersed a diesel sheen from a passing vessel near the Douglas Platform on 12 February. An MCA aircraft was tasked to

¹⁰ In addition the stripped out shell of the Mfv *Azure Sea* was found abandoned and sinking in Belfast Lough and towed to deeper water by the Larne Lifeboat.

Another three reports described vessel-casualty incidents but without references to any resulting pollution. An ex-lifeboat carrying 250 litres of diesel oil suffered hull damage and was intentionally beached at Rhoscolyn Bay for repairs and a yacht sank on its moorings and was subsequently recovered in the same location. The Mfv *Challenger* with 300 litres of hydraulic oil and 20 litres of diesel onboard caught fire and sank on 6 September in Cardigan Bay off the Lleyn Peninsula.

investigate a heavy oil sheen reported off Formby Point which was later attributed to a local wreck. A patch of oil with an estimated volume of 1.3 tonnes was reported off St Johns Point on 5 June. Approximately 4.5 tonnes of diesel escaped to sea after the Mfv *Quiet Waters* sank on 1 October.

- 4.7.7** Tarry lumps of crude oil were washed ashore on Ainsdale beach at Southport during the third week of January.
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4.8 Western Scotland (Dumfries and Galloway, Ayrshire, Inverclyde, Argyll & Bute and the Highlands & Islands Region to Cape Wrath).

- 4.8.1 Twelve confirmed vessel-source pollution incidents were identified during 2004 compared with 23 for the previous year. The incidents were reported in the open sea, bay or nearshore waters and in local ports with three spills attributed to vessel-casualties. A source of pollution was identified on 11 occasions and various grades or types of fuel oils were the most frequently identified polluting substances. There were again no references in the annual returns to indicate that any legal proceedings had been initiated against alleged offenders.¹¹
- 4.8.2 During the last week of February two diesel spills totalling 104 litres were attributed to *HMS Cumberland* whilst the warship was refuelling in Faslane and operating in the open sea. The remains of a derelict fishing vessel were identified as a possible source of a light diesel sheen reported in the area of Port Bannantine on 21 April.
- 4.8.3 On 8 June a very heavy oil slick extending for more than 6 km was reported in the open sea off the Isle of Skye. The following week the Mfv *Marabelle* reported accidentally pumping her bilges in Stornoway Harbour. A small quantity of diesel and hydraulic oil was quickly removed from the water surface for disposal ashore. The Highland Council reported two bunkering spills from fishing vessels in Lochinver Harbour and clean-up operations were carried out on each occasion.
- 4.8.4 A Clydeport Operations report described a minor oil pollution incident on 11 August after a small wooden cabin cruiser the *Oak Leaf* sank in the Ardrossan Harbour Marina. A small quantity of diesel oil came to the surface and was removed using absorbant pads and a boom. The vessel was later raised and pumped out. Another Clydeport Operations report referred to a small bunkering spill from the Fishery Protection Vessel *Minna* in the James Watt Dock on 6 September. A SEPA report identified a minor leakage of fuel oil from a wreck in Bowling Harbour.
- 4.8.5 The Mtug *Vanguard* (296 gt, built 1965) carrying 24 tonnes of diesel and lubrication oil was beached on the island of North Rona after an ingress of water on 7 September. The vessel sustained hull damage and a diesel sheen extending for more than 3 km², with an estimated volume of 5 m³, was later reported by an MCA aircraft tasked to the area. Most of the fuel and other

¹¹ Reporting organisations referred to three vessel-casualty incidents in which no pollution was observed. The Mfv *Ocean Hunter* sank off Mickle Ross on 13 March with 1.6 tonnes of diesel on board. On 6 July the yacht *The Spark* caught fire and sank between the Mull of Kintyre and the Island of Jura. The Mfv *Seeker* sank on 16 July with 1 tonne of fuel oil onboard.

A diving survey for the Department for Transport found that zinc levels in the water and in sediments around the wreck of the Mv *Jambo* remained low (Refer 2003 Annual Survey Report 4.8.3). As a precautionary measure, however, monitoring around the wreck will continue over the next 3 years to ensure that the levels of zinc and other associated metals continue to remain acceptably low (*Lloyd's List*, 23 September).

harmful substances were removed from the vessel and booms were deployed during a counter-pollution operation. The tug was raised and pumped out on 13 October and taken to a pier at Kyle Akin (*Lloyd's List*, 9,10,14,20 September,18 October).

- 4.8.6** On 19 December a light sheen was observed above the wreck of the Mfv *Audacious* which sank near Stornoway carrying 2.3 tonnes of marine diesel fuel.
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4.9 Orkney and Shetland Islands.

- 4.9.1** Seven oil discharges attributed to vessels were reported during 2004 compared with nine oil discharges reported during the previous year. Most incidents occurred in local ports and harbours and the appropriate preventive and remedial actions were taken by all parties to avoid any damage to local wildlife or other natural resources. The identified sources of the reported discharges included three fishing vessels, an oil tanker, a general cargo vessel and a Danish patrol vessel. The most frequently polluting substances were various types of fuel, lubrication and hydraulic oils. Accidental spills from oil installations operating in the West Shetland Basin were included in the statistics for the UKCS (Refer area 11 UKCS report).¹²
- 4.9.2** Only a single incident was reported at the Sullom Voe Terminal during the year. On 14 January oil sheens were observed when the Mtanker *Navion Scoyia* was berthing and again when the vessel was outbound. A subsequent investigation traced the discharge to a minor leakage in a cooling lubrication oil pipe which was promptly repaired. The Lerwick Port Authority also reported a single incident during the year. The Mfv *Joseph Roty II* accidentally discharged 2m³ gas oil during a bunkering operation.
- 4.9.3** The Orkney Islands Council's Department of Harbours described three oil spills from vessels in ports during 2004. A burst pipe on a crane caused a 100 litre spillage of hydraulic oil from the Mv *Earl Thorfinn*. A dismantling operation was identified as the most likely cause of a minor oil spill from a fishing vessel during July and a clean-up operation was completed. The Danish patrol vessel *Tulaq* was identified as the source of a minor diesel sheen observed in Kirkwall Harbour during September.
- 4.9.4** The Mfv *Elegance* carrying 40 tonnes of light diesel oil and 1 tonne of hydraulic oil sank after catching fire on 5 March. A slight sheen was sighted extending downwind from the wreck position and the pollution was dispersed naturally by wave and tidal action. Earlier in the year the same fishing vessel had called for emergency assistance following an engine room fire. Another oil sheen was reported during April and this was attributed to a bilge discharge from an unidentified passing vessel.

¹² In addition the Mfv *Golden West* sank off Fethaland on 9 March and no pollution was reported.

4.10 Eastern Scotland (the northern and eastern shores of the Highlands and Islands Region from Cape Wrath, Moray, Aberdeenshire, Angus, Fife, Lothian and Scottish Borders).

4.10.1 Reporting organisations submitted 86 completed questionnaires or other reports from which 37 separate incidents were identified. Twenty-eight spills were recorded in local ports and harbours and the remaining discharges occurred in estuaries, nearshore waters and the open sea. At least 9 spills were greater than 455 litres in volume and fishing vessels and offshore support vessels were identified as a source of pollution on 23 occasions. Five pollution incidents were caused by vessel-casualties including 4 fishing vessels and a pleasurecraft.¹³ During 2003 reporting organisations identified 32 discharges attributed to vessels.

4.10.2 The Aberdeen Harbour Board, MCA and SEPA submitted reports describing 12 oil discharges with a total volume of 2.9 tonnes. The discharges were attributed to 9 offshore support vessels, a fishing vessel and 2 other types of vessels berthed in Aberdeen Harbour. The polluting substances were identified as diesel, gas or lubrication oils and the median volume of discharges was 25 litres. Clean-up operations employing absorbant booms and skimmers were completed after most discharges. Six prosecutions were successfully completed during 2004 and another five cases had not been called at the time of reporting.

4.10.3 The cable laying vessel Mv *Oceanic Viking* accidentally discharged 1,000 litres of gas oil during an internal transfer operation on 6 September. Contractors deployed booms and skimmers during the clean-up operation. A further 950 litres of diesel oil were spilt whilst the Msv *Far Spirit* was engaged in a bunkering operation on 6 January. Contractors successfully recovered all floating diesel oil following a 500 litre spillage from the Msv *Grampian Monarch* alongside Blaikies Quay on 20 October.

¹³ A further five incidents were not included in the statistics and details are provided below.

Three vessel-casualty incidents were recorded but without any evidence of pollution at the time of reporting. The Mfv *Transcend* caught fire and sank north of the Kyle of Tongue on 13 February carrying approximately 6.8 tonnes of diesel oil. On 18 September the Msv *Viking Victor* (536 gt, built 1969) caught fire and sank under tow in 86 metres of open water off Findochty carrying 68 tonnes of gas oil and 1.6 tonnes of engine oil. The area was regularly monitored by surveillance aircraft and there was no evidence of any pollution from the vessel (*Lloyd's List*, 20, 21 September). The Mfv *Golden Eagle* also caught fire and sank off Buckie on 16 December with approximately 2.9 tonnes of diesel oil and 50 litres of lubrication oil onboard.

East Lothian Council removed eight 254 litre drums filled with waste engine oil from its beaches during the year and these attributed to local fishing vessels undertaking oil changes at sea.

Reports submitted by Fife Council, SSPCA and MCA referred to an incident in which 400-500 oiled seabirds were found along the Fife coastline during the last week of March. There was no evidence of oiling along the foreshore and samples of oil were taken from birds for analysis. Surveillance flights were unable to detect the source of pollution (*Lloyd's List*, 26 March).

- 4.10.4** The Msv *Dea Commander* spilt 300 litres of diesel oil in the same location during an onboard tank to tank transfer operation. A successful prosecution brought by the Procurator Fiscal resulted in a fine of £3,500. Another fine of £2,500 was imposed after the Msv *Grampian City* spilt 100 litres of lubrication oil on 13 February.
- 4.10.5** Polluting discharges from vessels were also reported in ports and harbours at Anstruther, Arbroath, Cromarty Firth, Dunbar, Dundee, Firth of Forth, Fraserburgh, Montrose, Peterhead Bay and Scrabster. The Pc *Roda* sank alongside the middle pier in Anstruther Harbour on 25 June causing a 50 litre discharge of diesel and engine oil. Four reporting organisations described an incident at the Caledon Wharf at Dundee following an estimated 900 litre fuel oil spill from the coastal Mtanker *Rix Condor* (827 gt, built 1967). A containment operation failed to prevent the oil contaminating a small stretch of shoreline at Beach Crescent to the east of Dundee. An SSPCA report noted that 12 Mute Swans were rescued, cleaned and later released.
- 4.10.6** The Fraserburgh Harbours Oil Spill Contingency Plan was implemented following a 4.5 tonne heavy oil discharge from the Mv *Green Ice*. Three spills were reported by the Peterhead Bay Authority during the year. A clean-up operation was required following a 10 litre spillage of synthetic mud from the Msv *Highland Fortress* on 7 January. The Msv *Far Supporter* spilt a further 25 litres of synthetic mud in the same location on 29 March. A third incident occurred on 13 August following a 15 litre spillage of gas oil from the Msv *SBS Cirrus*. There were no references in incident reports of any legal proceedings initiated against alleged offenders.
- 4.10.7** Two POLREPS described 1 tonne diesel oil spills in Scrabster Harbour. The skipper of the Mfv *An Capall Ban* admitted liability for a bunkering spill on 16 April and a clean-up operation was carried out following a spill from the Mfv *Suffolk Chieftain* on 24 April.
- 4.10.8** Nine discharges were identified in nearshore waters and in the open sea. Lack of attention during an internal fuel transfer operation was identified as the cause of a 1 tonne diesel oil spill from the Mfv *Audacious* in Thurso Bay. The Mfv *Danallah* capsized and ran aground on 20 May and a light sheen was later reported near the vessel. The FPSO Bleo Holm standby vessel reported a rainbow sheen which was attributed to a passing vessel.
- 4.10.9** A SEPA report described an incident at Newburgh on 3 September after a derelict fishing vessel sank in the River Tay. Contractors deployed booms to contain and remove diesel oil from the water surface. A large diesel sheen was reported after the Mfv *Faith Ann* (49gt, built 1978) ran aground and sank in Loch Eriboll with 3.5 tonnes of diesel and 100 litres of lubrication oil onboard (*Lloyd's List*, 6 October).
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4.11 United Kingdom Continental Shelf

4.11.1 The pollution statistics for this enumeration area were again compiled from POLREP reports submitted by the MCA and PON1 reports submitted by the DTI. Following a request from the DTI separate data sets have been presented for accidental discharges attributed to offshore oil & gas installations and all other discharges attributed to vessels operating within the UKCS area (Refer to Figure 2).

Oil and gas installations

4.11.2 A total of 487 incidents, 99 more than the previous year, were attributed to offshore oil & gas installations including those operating in the west Shetland Basin, Liverpool Bay and off the coast of eastern England. The total included 421 accidental oil discharges (96 more than the previous year) and 66 accidental discharges of chemicals and other substances (3 more than the previous year), including cement mix, fluorescein dye, glycol, hydrate inhibitor, methanol, oil-based mud, petrolite, scale inhibitor, silicate liquid, triethylene glycol, water-based mud and wax inhibitor.

4.11.3 Details of each incident, including a cause when known, are listed in **Appendix 1** (UKCS oil and gas installations). Additional information is provided in **Section 3** for 16 accidental discharges of 2 tonnes or more and statistics are also available on the DTI's website: www.dti.gov.uk.

4.11.4 The PON1 reports again indicated that remedial actions were taken by operators following most accidental discharges. The responses included identification of root causes of spills, improvements in operational control procedures, recommendations concerning preventative actions and carrying out any necessary repairs and modifications to equipment.

4.11.5 The distribution pattern for estimated volumes of discharges, when known, was again markedly skewed with 87% less than 455 litres. Individual spill volumes ranged from less than 0.01 litres to 40 tonnes. Analysis of oil types showed 59% of reported discharges were crude oils followed by 15% for lubrication and hydraulic oils and 14% for fuel oils.

4.11.6 Two successful prosecutions were concluded by the Procurator Fiscal following oil discharges from the Cormorant Alpha and Alwyn North installations during May and June 2003 respectively (Refer to Table 6). Four further pollution incidents have been reported to the Procurator Fiscal and details will be provided in the next survey report.

Vessels

4.11.7 A further 17 discharges (6 fewer than the previous year) were attributed to vessels operating within the UKCS enumeration area. The largest category comprised 14 reports of surface sheens or oil slicks attributed to unidentified passing vessels. The estimated volumes ranged from 0.08 litres to 7 tonnes with a median value of 10 litres. In each incident it was assumed that the

pollution dispersed naturally without posing a threat to wildlife or the coastline.

4.11.8 Two POLREPS referred to oil discharges from support vessels operating in the UKCS area. On 14 March the Msv *North Prince* reported an incident in which the contents of a punctured drum of lubrication oil were hosed overboard to prevent a slip hazard for crew and cargo. A minor diesel spill was reported by the Msv *Highland Valour* on 4 September.

4.11.9 Another report described an incident in which a significant quantity of garbage was disposed of overboard from the Mfv *Lynden* on 7 September. The garbage consisted of plastic bags, polystyrene, an old sleeping bag and cardboard boxes.

SECTION 5: QUALITY ASSURANCE PLAN AND ACKNOWLEDGEMENTS

5.1 Quality Assurance Programme

As part of a comprehensive quality assurance plan data verification procedures were again applied at all stages during the 2004 survey. For example, other sources of information were consulted including the casualty section of *Lloyd's List*, and any relevant reports were cross-referenced with the appropriate questionnaire returns.

The approaches for data entry and analysis were clearly shown in the relevant tables and all entries to the enumeration area sub-sets were subject to independent checking to detect any errors. On some occasions unexpected values were confirmed with the various data-sources. Multiple reports were again received from the DTI and MCA describing most accidental discharges from oil and gas installations operating on the UKCS. For the remaining discharges from vessels 28% of individual incident reports were compiled from questionnaire returns submitted by two or more reporting organisations.

5.2 Acknowledgements

The Committee is again grateful to the following public agencies and other organisations and their members for their contributions to the survey:

Association of Sea Fisheries Committees
British Ports Association
Convention of Scottish Local Authorities
Department of Trade and Industry
Environment Agency
Local Government Association
Maritime & Coastguard Agency's Counter Pollution Branch
Northern Ireland Environment and Heritage Service
Royal Society for the Prevention of Cruelty to Animals
Scottish Environment Protection Agency
Scottish Society for the Prevention of Cruelty to Animals

APPENDIX ONE

SUMMARY OF REPORTED INCIDENTS

Key to types of vessels

Mct Chemical tanker

Mfv Fishing vessel

Msv Offshore support vessel

Mt Oil tanker

Mv General cargo vessel

Pc Pleasurecraft

RFA Royal Fleet Auxilliary vessel

Ro-ro Roll-on roll-off ferry

1: NORTH-EAST ENGLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
NE/001	29-Jan	Hull	Oil	Diesel	100 litres	Mtug Afon Alaw	Bunkering spill, dispersed naturally.
NE/008	18-Mar	53-47N: 00-36E	Oil	Heavy fuel oil	Nk	Mctanker Bro Traveller	Slick more than 8 km in length.
*NE/884	20-Jun	Bridlington	Oil	Gas	10 litres	Mfv Novantae	Clean-up completed.
*NE/885	16-Sep	55-01N: 01-18W	Oil	Fuel	65 litres	Mv Borden	Oil dispersed by wave action.
NE/483	19-Sep	54-02N: 01-06E	Oil	Diesel	100 litres	Msv Putford Aries	Split in port side fuel valve.
*NE/632	23-Sep	Warkworth Harbour	Oil	Diesel	20 litres	Mfv Dawn Mist	Clean-up completed.

2: EASTERN ENGLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
EE/009	19-Jan	51-25N: 01-25E	Oil	Lubrication	Nk	Mv Pride of Provence	Leakage of oil from stern tube.
EE/006	09-Feb	53-30N: 02-24E	Other	Palm oil	Nk	Mtanker Pia Theresa	Discharge following tank cleaning operation.
*EE/888	02-Apr	Felixstowe	Oil	Hydraulic	300 litres	Mdredger Sospan Dau	Oil dispersed by tidal action.
EE/140	16-Apr	52-57N: 02-37E	Oil	Hydraulic	300 litres	Mv Bowsea	Spillage caused by faulty portable pump.
EE/141	17-Apr	Boston Harbour	Oil	Diesel	Nk	Mfv Morning Flight	Vessel sank at moorings.
EE/142	28-Apr	Great Yarmouth Harbour	Oil	Fuel	200 litres	Msv Putford Athena	Clean-up following bunkering spill.
*EE/648	18-May	Felixstowe	Oil	Lubrication	15 litres	Mv Maersk Flanders	Pollution dispersed by tidal action.
EE/145	29-May	53-28N: 00-59E	Oil	Washings	Nk	Unidentified vessel	Slick 4 km long.
EE/146	03-Jun	53-08N: 01-24E	Oil	Nk	Nk	Unidentified vessel	Oil sample taken and analysed.
*EE/647	16-Jul	Felixstowe	Oil	Fuel	50 litres	Mv MSC Austria	Clean-up completed.
EE/308	24-Aug	Lowestoft Harbour	Oil	Diesel	Nk	Msv Putford Shore	Clean-up following bunkering spill.
EE/309	24-Sep	Port of Ipswich	Oil	Heavy fuel	4 tonnes	Mv Haci Emine Ana	Tier 1 incident, clean-up completed.
EE/501	01-Nov	53-01N: 01-48E	Oil	Crude	Nk	Unidentified vessel	Slick 4 km long reported SBV Putford Athena.
EE/503	08-Nov	53-06N: 01-46E	Other	Palm oil	Nk	Unidentified vessel	Slick 4 km long reported SBV Putford Athena.
EE/504	25-Nov	53-06N: 01-44E	Oil	Crude	Nk	Unidentified vessel	Tarry lumps of crude oil.

3: ESSEX AND KENT (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
EK/010	27-Mar	51-25N: 01-30E	Oil	Nk	Nk	Unidentified vessel	Oily sheen dispersed by wave action.
*EK/664	30-Mar	Port of Dover	Oil	Hydraulic	50 litres	Mv ro-ro Seafrance Renior	Clean-up completed.
*EK/668	25-Apr	Harwich	Oil	Lumps	10 litres	Unidentified vessel	Dispersed by tidal action.
EK/147	09-May	51-22N: 01-56E	Oil	Bilge	Nk	Unidentified vessel	Possible bilge tank washings.
EK/148	11-May	Dover Harbour	Oil	Fuel	50 litres	Mv Black Prince	Clean-up following bunkering spill.
EK/681	12-May	50-59N: 01-15E	Oil	Nk	Nk	Unidentified vessel	Dispersed by wave action.
*EK/667	19-May	Harwich	Oil	Fuel	10 litres	Mv Brega Star	Sheen dispersed by tidal action.
*EK/891	01-Jun	Harwich	Oil	Diesel	Nk	Mv Porthos	Sheen quickly dispersed.
*EK/893	26-Jul	Mistley Quay	Oil	Bilge	Nk	Pleasurecraft	Dispersed naturally.
*EK/683	29-Jun	Isle of Grain	Oil	Hydraulic	200 litres	Mbarge Dina M	Clean-up completed.
*EK/684	06-Jul	51-28N: 01-12E	Other	Molasses	Nk	Unidentified vessel	Dispersed by wave action.
EK/685	08-Aug	51-06N: 01-29E	Oil	Diesel	Nk	Unidentified vessel	Dispersed by wave action.
*EK/666	10-Sep	Port of London	Oil	Slops	50 litres	Mv Arco Humber	Failure of discharge hose.
*EK/687	26-Sep	51-25N: 01-06E	Oil	Diesel	Nk	Unidentified vessel	Dispersed by wave action.
EK/507	02-Dec	51-03N: 01-21E	Oil	Diesel	Nk	Unidentified vessel	Sheen dispersed by wave action.
*EK/665	15-Dec	Port of Dover	Oil	Bilge	100 litres	Mv ro-ro Cezanne	Clean-up completed.

4: SOUTHERN ENGLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
*SE/697	02-Jan	Lymington Harbour	Oil	Hydraulic	1 litre	Dredging barge	Film quickly dispersed.
*SE/943	14-Jan	Fawley Terminal	Oil	Hydraulic	0.5 litres	Mtanker Vinga Matilda	Clean-up completed.
SE/012	26-Jan	Portland Inner Harbour	Oil	Lubrication	30 litres	RFA Black Rover	Clean-up completed.
*SE/899	24-May	Poole Harbour	Oil	Fuel	50 litres	Mfv Cornish Light	Clean-up completed.
*SE/701	20-Jun	Newhaven	Oil	Fuel	100 litres	Mv Dieppe	Overflow of bilge holding tank.
SE/312	20-Jul	Portland Inner Harbour	Oil	Fuel	20 litres	Mv Regele Ferdinand	Hose leak, clean-up completed.
*SE/700	02-Aug	Southampton Town Quay	Oil	Diesel	10 litres	Pleasurecraft	Bilge discharge to marina.
*SE/695	03-Aug	Lymington Harbour	Oil	Diesel	1 litre	Pleasurecraft	Oil dispersed by tidal action.
SE/313	13-Aug	50-45N: 00-51E	Oil	Diesel	Nk	Unidentified vessel	Slick more than 2km long.
*SE/903	15-Aug	50-39N: 01-52W	Oil	Diesel	500 litres	Pc Sheer Grace	Vessel caught fire and sank.
*SE/698	26-Oct	Southampton Docks	Oil	Diesel	50 litres	Mtug Betty	Vessel sank on moorings.
*SE/694	02-Nov	Chichester Harbour	Oil	Diesel	0.5 litres	Unidentified vessel	Film quickly dispersed.
*SE/715	08-Nov	Eastbourne	Oil	Grease	5 tonnes	Unidentified vessel	Two clean-ups required.
*SE/905	17-Nov	Poole Harbour	Oil	Diesel	30 litres	Mfv Sunshine	Clean-up completed.
SE/509	23-Nov	Poole Harbour	Oil	Diesel	3.4 litres	Pleasurecraft	Vessel sank at moorings.
SE/510	12-Dec	50-03N: 02-33W	Oil	Fuel	Nk	Mv Panam Atlantico	Port state control inspection carried out.

5: SOUTH-WEST ENGLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
SW/013	12-Mar	49-41N: 03-47W	Oil	Gas	30 litres	Unidentified vessel	Sheen dispersed by wave action.
SW/151	10-Apr	Looe Harbour	Oil	Diesel	10 litres	Mfv Valerie May	Vessel sank and refloated.
SW/152	12-Apr	50-09N: 04-05W	Oil	Fuel	40 litres	Luigi Durand De La Penn	Slick dispersed.
SW/154	27-Apr	50-01N: 04-05W	Oil	Bilge waste	Nk	RFA Argus	Slick dispersed.
SW/317	27-Jul	49-55N: 03-11W	Oil	Fuel	10 litres	Unidentified vessel	Slick more than 5 km in extent.
*SW/986	August	St. Agnes, Scillies	Oil	Diesel	20 litres	Mfv Gorg Lou-N	Vessel ran aground.
SW/318	08-Aug	50-26N: 03-32W	Oil	Diesel	10 litres	Pleasurecraft	Sheen dispersed by wave action.
*SW/911	10-Aug	Plymouth	Oil	Lubrication	Nk	Mv ro-ro Pont Aven	Clean-up completed.
SW/319	26-Aug	Newquay Beach	Oil	Crude	5 litres	Unidentified vessel	Small globules observed along shoreline.
*SW/910	10-Sep	Sutton Harbour	Oil	Hydraulic	158 litres	Fishing vessel	Clean-up completed.
*SW/912	24-Sep	Holywell Bay	Oil	Lumps	Nk	Unidentified vessel	Clean-up completed.
SW/511	28-Oct	50-19N: 04-15W	Oil	Diesel	200 litres	Mv James Egan Lane	Oil seeped from 1945 wreck.
*SW/913	04-Nov	Sutton Harbour	Oil	Diesel	1.2 tonnes	Fishing vessel	Vessel sank in harbour.
*SW/914	28-Nov	Exe Estuary	Oil	Diesel	Nk	Pleasurecraft	Vessel sank on moorings.
SW/512	10-Dec	49-55N: 05-57W	Oil	Gas	30 litres	Mv Vityaz	Deliberate discharge, MCA aircraft tasked.

6: BRISTOL CHANNEL AND SOUTH WALES (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
BC/014	15-Jan	Milford Dock	Oil	Gas	3 litres	Mfv Vidar	Bunkering spill, clean-up completed.
*BC/916	12-Feb	Royal Portbury Dock	Oil	Lubrication	10 litres	Mv Raven Arrow	Clean-up completed.
BC/016	16-Feb	Milford Dock	Oil	Diesel	10 litres	Mfv Sarvy	Bunkering spill, clean-up completed.
*BC/778	09-May	Milford Waterway	Oil	Crude	1 litre	Mtanker Karen Knutsen	Leakage from bow loading coupling.
*BC/777	21-May	Milford Dock	Oil	Diesel	50 litres	Mfv Grampian Avenger II	Bunkering spill, clean-up completed.
BC/158	22-Jun	Milford Dock	Oil	Diesel	3 litres	Mfv Morgenstar	Bunkering spill, clean-up completed.
BC/159	22-Jun	Milford Dock	Oil	Diesel	250 litres	Mfv Morgenstar	Bunkering spill, clean-up completed.
*BC/774	08-Jul	Milford Dock	Oil	Diesel	1 litre	Mfv Pietor Jo	Bunkering spill, clean-up completed.
BC/322	08-Aug	Milford Dock	Oil	Diesel	20 litres	Mfv Michel	Bunkering spill, clean-up completed.
BC/324	03-Sep	Chepstow	Oil	Diesel	20 litres	Mdredger Breckland	Vessel grounded and sank.
BC/329	05-Sep	Fishguard Harbour	Oil	Bilge	10 litres	Mfv Mariane	Deliberate discharge.
BC/325	06-Sep	51-29N: 05-14W	Oil	Hydraulic	50 litres	Mtanker Mariella	Stern tube leakage.
BC/513	04-Oct	Burry Port Harbour	Oil	Diesel	1.2 tonnes	Mbarge	Barge sank in adverse weather.
*BC/772	13-Oct	Milford Dock	Oil	Diesel	1 litre	Mfv Admiral Gordon	Bunkering spill, clean-up completed.
*BC/771	25-Oct	Milford Dock	Oil	Bilge water	1 litre	Mfv Charmaine M	Drum fell overboard.
BC/796	26-Nov	Freshwater West	Oil	Paraffin wax	2.5 tonnes	Unidentified vessel	2 km shoreline clean-up required.
BC/517	05-Dec	Milford Dock	Oil	Gas	5 litres	Unidentified fishing vessel	Clean-up completed.
BC/793	10-Dec	Tenby	Oil	Paraffin wax	8 tonnes	Unidentified vessel.	8 km shoreline clean-up required.
BC/519	22-Dec	Neyland Marina	Oil	Diesel	136 litres	Mfv Reaper	Vessel sank at moorings.

7: IRISH SEA (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
*IS/801	08-Jan	Kilkeel Harbour	Oil	Waste	Nk	Fishing vessel	Pollution dispersed by tidal action.
IS/017	15-Jan	Southport	Oil	Tarry lumps	Nk	Unidentified vessel	Clean-up completed.
*IS/803	10-Feb	Carrickfergus Harbour	Oil	Bilge	Nk	Workboat	Vessel sank.
IS/019	12-Feb	53-33N: 03-34W	Oil	Diesel	10 litres	Unidentified vessel	Reported by standby vessel.
*IS/808	29-Feb	Ramsey Harbour	Oil	Diesel	10 litres	Mfv Aquila	Clean-up completed.
IS/021	01-Mar	53-38N: 03-23W	Oil	Fuel	Nk	Disturbed wreck	Heavy oil sheen.
IS/022	08-Mar	Fleetwood	Oil	Diesel	1 tonne	Mbargo Menno	Clean-up completed.
*IS/920	05-May	Holyhead Harbour	Oil	Diesel	70 litres	Fishing vessel	Bunkering spill.
IS/161	13-May	Holyhead Harbour	Oil	Diesel	15 litres	Mfv Twilight	Clean-up completed.
IS/163	04-Jun	Liverpool	Oil	Gas	15 litres	Mv Sybille	Bunkering spill.
IS/164	05-Jun	54-15N: 05-31W	Oil	Nk	1.3 tonnes	Unidentified vessel	Source and cause unknown.
*IS/804	21-Jul	Warrenpoint Harbour	Oil	Diesel	Nk	Unidentified vessel	Dispersed by tidal action.
*IS/940	12-Aug	Holyhead Harbour	Oil	Diesel	70 litres	Fishing vessel	Bunkering spill.
IS/331	16-Sep	54-33N: 03-34W	Oil	Hydraulic	5 litres	Pc Ellen Vannin	Vessel ran aground.
IS/332	17-Sep	Fleetwood Harbour	Oil	Diesel	25 litres	Mfv Our Vanclaire	Vessel caught fire.
IS/520	01-Oct	54-09N: 05-10W	Oil	Diesel	4.55 tonnes	Mfv Quiet Waters	Vessel sank.
IS/521	04-Oct	Workington Harbour	Oil	Diesel	5 litres	Mt Crescent Oratuna	Spill contained in harbour.

8: WESTERN SCOTLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
WS/026	21-Feb	Faslane	Oil	Diesel	100 litres	HMS Cumberland	Bunkering spillage.
WS/027	29-Feb	58-07N: 05-45W	Oil	Diesel	4 litres	HMS Cumberland	Oil dispersed by wave action.
*WS/944	19-Mar	Lochinver Harbour	Oil	Diesel	30 litres	Mfv Legorpe	Clean-up completed.
*WS/852	21-Apr	Port Bannantine	Oil	Diesel	Nk	Mfv Ocean Queen	Oil dispersed by tidal action.
WS/168	08-Jun	57-21N: 06-48W	Oil	Heavy	1 litre	Unidentified vessel	Floating slick 6 km long.
WS/169	10-Jun	58-12N: 06-23W	Oil	Bilge	0.03 litres	Mfv Marabelle	Mixture of diesel and hydraulic oil.
*WS/945	02-Jul	Lochinver Harbour	Oil	Diesel	30 litres	Mfv Akillamendi	Clean-up completed.
*WS/848	11-Aug	Ardrossan Harbour	Oil	Diesel	Nk	Pc Oakleaf	Vessel sank at marina.
*WS/847	06-Sep	James Watt Dock	Oil	Lubrication	2 litres	FPV Minna	Overflow from vent.
WS/337	07-Sep	57-35N: 05-58W	Oil	Diesel	5 tonnes	Mtug Vanguard	Vessel ran aground.
*WS/952	15-Dec	Bowling Harbour	Oil	Fuel	20 litres	Wreck	Oil dispersed by tidal action.
WS/524	19-Dec	58-12N: 06-22W	Oil	Diesel	2.32 tonnes	Mfv Audacious	Vessel sank and pollution ashore.

9: ORKNEY AND SHETLAND ISLANDS (*Incident not identified by a POLREP)

Reference	Date	Location	Category	Type	Amount	Source	Comments
*OS/857	14-Jan	Sullom Voe	Oil	Lubrication	Nk	Mtanker Navion Scoyia	Sheen dispersed by wave action.
OS/028	05-Mar	59-02N: 02-42W	Oil	Diesel	41 tonnes	Mfv Elegance	Vessel sank after catching fire.
*OS/948	April	59-10N: 02-44W	Oil	Bilge	Nk	Unidentified vessel	Suspected bilge discharge.
*OS/928	May	Lerwick Harbour	Oil	Gas	1.7 tonnes	Mfv Joseph Roty II	Bunkering spill.
*OS/949	July	Scapa Flow	Oil	Hydraulic	100 litres	Mv Earl Thorfinn	Clean-up completed.
*OS/950	July	58-55N: 02-11W	Oil	Hydraulic	Nk	Fishing vessel	Clean-up completed.
*OS/951	September	Kirkwall	Oil	Diesel	1 litre	Patrol vessel Tulaq	Sheen dispersed by wave action.

10: EASTERN SCOTLAND (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
*ES/959	05-Jan	Montrose	Oil	Bilge	Nk	Unidentified vessel	Clean-up completed.
ES/030	06-Jan	Fraserburgh Harbour	Oil	Diesel	4.5 tonnes	Mv Green Ice	Clean-up completed.
ES/031	06-Jan	Aberdeen Harbour	Oil	Diesel	950 litres	Msv Far Spirit	Bunkering spill.
*ES/930	07-Jan	Peterhead Bay Harbour	Other	Synthetic mud	10 litres	Msv Highland Fortress	Clean-up completed.
ES/032	09-Jan	Aberdeen Harbour	Oil	Lubrication	20 litres	Msv Skandi Rona	Discharge following blow-back.
ES/033	10-Feb	Aberdeen Harbour	Oil	Diesel	4 litres	Msv Aberdonian	Tank overflow during bunkering operation.
*ES/868	13-Feb	Aberdeen Harbour	Oil	Lubrication	100 litres	Msv Grampian City	Overflow during loading operation.
ES/036	18-Feb	Aberdeen Harbour	Oil	Diesel	10 litres	Mfv Girl Pat III	Tank overflow during bunkering operation.
ES/039	18-Mar	Aberdeen Harbour	Oil	Gas	5 litres	Mv Ladon	Venting of fuel tank when re-fuelling.
*ES/932	29-Mar	Peterhead Bay Harbour	Other	Synthetic mud	25 litres	Msv Far Supporter	Clean-up completed.
ES/041	30-Mar	Aberdeen Harbour	Oil	Diesel	30 litres	Msv Viking Victor	Spillage during tank transfer operation.
ES/175	16-Apr	Scrabster Harbour	Oil	Diesel	1 tonne	Mfv An Capall	Bunkering spill.
ES/176	24-Apr	Scrabster Harbour	Oil	Diesel	1 tonne	Mfv Suffolk Chieftain	Leakage contained.
ES/178	29-Apr	Firth of Forth	Oil	Hydraulic	2 litres	HMS Ledbury	Supply defect to anchor windlass.
ES/180	04-May	Aberdeen Harbour	Oil	Diesel	300 litres	Msv Dea Commander	Spill during tank to tank transfer.
*ES/958	07-May	Arbroath Harbour	Oil	Fuel	Nk	Mfv Kilwarin	Clean-up completed.
ES/181	08-May	Thurso Bay	Oil	Diesel	1 tonne	Mfv Audacious	Spill during transfer operation.
ES/184	18-May	Aberdeen Harbour	Oil	Diesel	5 litres	Msv Britannia Monarch	Fracture to a vent pipe.
ES/185	20-May	57-41N: 02-13W	Oil	Diesel	227.3 litres	Mfv Danallah	Vessel capsized and ran aground.
*ES/934	01-Jun	57-32N: 01-45W	Oil	Fuel	Nk	Unidentified vessel	Dispersed by wave action.
ES/193	25-Jun	Anstruther Harbour	Oil	Diesel	50 litres	Pc Roda	Vessel sank.
*ES/953	20-Jul	Dunbar Harbour	Oil	Diesel	Nk	Fishing vessel	Dispersed naturally.
*ES/957	02-Aug	Montrose Harbour	Oil	Fuel	25 litres	Msv Big Orange XVIII	Clean-up completed.
ES/345	04-Aug	56-04N: 02-42W	Oil	Lubrication	3 litres	Unidentified vessel	Possible bilge discharge.
*ES/935	13-Aug	Peterhead Bay Harbour	Oil	Gas	15 litres	Msv SBS Cirrus	Clean-up completed.
ES/347	15-Aug	Outside Leith Harbour	Oil	Diesel	1 litre	Unidentified vessel	Three separate sheens.
ES/437	17-Aug	58-06N: 01-26W	Oil	Nk	120 litres	Unidentified vessel	Reported by Bleo Holm standby vessel.
ES/349	03-Sep	Newburgh, River Tay	Oil	Fuel	1 litre	Mfv Shalona	Spillage from abandoned vessel.

ES/350	05-Sep	57-42N: 02-51W	Oil	Diesel	18.1 litres	Mfv Shona	Vessel sank and later refloated.
ES/351	06-Sep	Aberdeen Harbour	Oil	Gas	1 tonne	Mv Ocean Viking	Clean-up completed.
ES/352	10-Sep	Dundee Harbour	Oil	Sheen	1 litre	Unidentified vessel	Light sheen.
ES/525	05-Oct	58-32N: 04-38W	Oil	Diesel	3.5 tonnes	Mfv Faith Ann	Vessel sank.
ES/526	20-Oct	Aberdeen Harbour	Oil	Diesel	500 litres	Msv Grampian Monarch	Clean-up completed.
ES/527	10-Nov	Dundee Harbour	Oil	Fuel	900 litres	Mtanker Rix Condor	Spillage during loading operation.
ES/528	22-Nov	57-29N: 01-48W	Oil	Diesel	1 litre	Unidentified vessel	Pollution dispersed by wave action.
*ES/862	26-Nov	Aberdeen Harbour	Oil	Diesel	5 litres	Msv Cso Orelia	Bunkering spill.
*ES/937	06-Dec	Cromarty Firth	Oil	Gas	5 litres	Mv Kincaig	Bunkering spill.

11: UKCS OIL AND GAS INSTALLATION ACCIDENTAL DISCHARGES (*Incident not identified by a POLREP)							
Reference	Date	Location	Category	Type	Amount	Source	Comments
UKCS/042	04-Jan	57-44N: 00-58E	Oil	Crude	78 litres	Forties Alpha	Investigation underway at time of reporting.
UKCS/044	04-Jan	60-54N: 01-15E	Other	Oil-based mud (65%)	440 litres	Ninian Northern	Failure of bulk transfer hose.
*UKCS/989	04-Jan	53-32N: 3-34W	Oil	Waste Oil	1 litre	Douglas	Spill of waste oil due to inadequate clean-up.
UKCS/045	05-Jan	58-23N: 00-04E	Chemical	Heating medium	680 litres	Tartan Alpha	Failure of pump mechanical seal.
UKCS/046	06-Jan	54-07N: 00-28E	Chemical	Methanol	6.75 tonnes	Cleeton Platform	Leak on subsea manifold.
UKCS/047	06-Jan	57-25N: 01-23E	Oil	Crude	300 litres	Montrose Alpha	Produced Water System malfunction.
UKCS/048	07-Jan	58-14N: 01-07E	Oil	Crude	20 litres	Balmoral	Small leak at base of riser.
*UKCS/990	09-Jan	53-05N; 02-08E	Oil	Oily water	10 litres	Leman Alpha	Oily water tank overflowed.
*UKCS/991	09-Jan	53-24N: 01-16E	Oil	Hydraulic	180 litres	Guinevere	Leak from valve actuator.
UKCS/049	10-Jan	57-18N: 01-40E	Other	Scale inhibitor	100 litres	ETAP	Investigation underway at time of reporting.
*UKCS/992	11-Jan	60-51N: 01-28E	Oil	Crude	300 litres	Ninian Central	Produced Water System malfunction.
*UKCS/993	14-Jan	58-08N: 03-06W	Oil	Crude	100 litres	Beatrice Alpha	Hole in recovered oil tank (rot).
*UKCS/994	14-Jan	53-32N: 03-34W	Other	Water-based mud	8.1 tonnes	Douglas	Leakage of dump valve.
*UKCS/995	15-Jan	58-14N: 01-07E	Oil	Crude	250 litres	Balmoral	Leakage form riser base.
UKCS/051	15-Jan	61-06N: 01-19E	Oil	Diesel	0.99 litres	North West Hutton	Spillage during bunkering operation.
*UKCS/997	16-Jan	57-05N: 00-54E	Oil	Crude	Nk	Triton	Produced Water System malfunction.
UKCS/052	17-Jan	57-01N: 01-50E	Oil	Diesel	0.19 litres	Elgin PUQ	Spillage during hose disconnection.
*UKCS/998	18-Jan	58-14N: 01-07E	Oil	Hydraulic	30 litres	Balmoral	Failure of hydraulic seals.
*UKCS/999	19-Jan	60-49N: 01-44E	Oil	Diesel	1 litre	Alwyn North	Leak from hole in bulk hose.
*UKCS/1000	19-Jan	53-50N: 00-28E	Oil	Crude	Nk	Rough 47/3B	Produced Water System malfunction.
*UKCS/1001	20-Jan	53-32N: 03-34W	Oil	Lubrication	1 litre	Douglas	Contamination from DA Machiner deck.
UKCS/053	20-Jan	61-14N: 01-09E	Oil	Crude	250 litres	North Cormorant	Spillage during well fluid transfer.
UKCS/054	20-Jan	53-37N: 00-47E	Chemical	Methanol	5 tonnes	A2D Platform	Seal leakage on injection pump.
UKCS/055	20-Jan	53-12N: 02-29E	Oil	Hydraulic	500 litres	Bessemer 49/23E	Failure of wing dump valve.
UKCS/056	20-Jan	61-14N: 01-09E	Oil	Crude	0.1 litres	North Cormorant	Pin hole leak in pump casing.
*UKCS/1002	23-Jan	58-14N: 01-07E	Oil	Crude	17 litres	Balmoral	Ongoing spillage at time of reporting.
*UKCS/1003	24-Jan	59-45N: 01-40E	Chemical	Oceanic HW443	24.6 tonnes	Bruce	Failure within internals of the tree cap.
UKCS/057	24-Jan	53-05N: 02-08E	Oil	Hydraulic	225 litres	Leman Delta	Leak due to failed solenoid valve.

UKCS/058	24-Jan	61-14N: 01-09E	Oil	Crude	30 litres	North Cormorant	Spillage during well fluid transfer operation.
*UKCS/1004	26-Jan	53-50N: 00-28E	Oil	Crude	Nk	Rough 47/3B	Condensate from gas processing operations.
UKCS/059	26-Jan	56-30N: 02-17E	Other	Oil-based mud (55%)	15 litres	Ocean Princess	Leaking poly pack seal.
UKCS/060	27-Jan	61-14N: 01-09E	Oil	Crude	350 litres	North Cormorant	Spillage during well fluid transfer.
UKCS/061	27-Jan	58-14N: 01-07E	Oil	Crude	Nk	Balmoral	Produced Water System malfunction.
UKCS/062	27-Jan	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
*UKCS/1005	28-Jan	53-50N: 00-28E	Oil	Crude	Nk	Rough 47/3B	Condensate from gas processing operations.
*UKCS/1006	28-Jan	53-00N: 02-53E	Oil	Nk	780 litres	North Davy	Failure of wing dump valve.
UKCS/063	28-Jan	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/064	29-Jan	58-09N: 00-23E	Oil	Hydraulic	20 litres	Maersk Innovator	Burst supply hose.
UKCS/065	29-Jan	58-22N: 00-04E	Oil	Crude	11 litres	Tartan Alpha	Spill during pig launching operation.
UKCS/066	29-Jan	58-02N: 01-07E	Oil	Crude	5.8 litres	Britannia	Produced Water System malfunction.
UKCS/067	31-Jan	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/068	01-Feb	61-08N: 01-44E	Oil	Lubrication	0.25 litres	Brent Delta	Leak from gearbox output shaft seal.
UKCS/069	01-Feb	58-22N: 00-04E	Oil	Crude	400 litres	Tartan Alpha	Produced Water System malfunction.
UKCS/070	02-Feb	53-05N: 02-08E	Oil	Hydraulic	2 litres	Leman Alpha	Leakage from wellhead hydraulic control cabinet.
UKCS/071	02-Feb	61-17N: 00-55E	Other	Heating Medium	850 litres	Tern Alpha	Clamp leakage repaired.
UKCS/072	05-Feb	58-28N: 00-15E	Oil	Hydraulic	1 litre	Piper Bravo	Leakage from crane hydraulic line.
UKCS/073	05-Feb	56-30N: 02-09E	Oil	Diesel	32 litres	Fulmar Alpha	Spillage during bunkering operation.
UKCS/074	05-Feb	61-22N: 01-35E	Oil	Diesel	600 litres	Thistle	Leaking pipework repaired.
UKCS/075	05-Feb	60-51N: 01-28E	Oil	Crude	40 litres	Ninian Central	Produced Water System malfunction.
*UKCS/1008	06-Feb	56-30N: 02-09E	Chemical	WAOI	3.3 kg	Fulmar Alpha	Defective valve.
UKCS/076	06-Feb	60-49N: 01-44E	Oil	Diesel	1 tonne	Alwyn North	Investigation underway at time of reporting.
UKCS/077	06-Feb	57-22N: 01-23E	Oil	Crude	100 litres	Arbroath	Source and cause unknown at time of reporting.
UKCS/078	07-Feb	60-49N: 01-44E	Oil	Crude	53.02 litres	Alwyn North	Water Treatment Plant failure.
UKCS/079	08-Feb	60-49N: 01-44E	Oil	Crude	40.32 litres	Alwyn North	Water Treatment Plant failure on restart.
UKCS/080	09-Feb	60-49N: 01-44E	Oil	Crude	56.7 litres	Alwyn North	Water Treatment Plant failure.
*UKCS/1009	10-Feb	57-22N: 01-23E	Oil	Nk	50 litres	Arbroath	Unknown.
UKCS/081	10-Feb	54-04N: 02-05 E	Oil	Diesel	10 litres	Schooner Alpha	Leakage from pinprick holes in hose coupling.
UKCS/082	10-Feb	57-15N: 00-49E	Oil	Crude	498 litres	Anasuria	Produced Water System malfunction.

UKCS/083	10-Feb	56-27N: 02-17E	Oil	Oily water	4 litres	Clyde	Discharge through open gratings to sea.
UKCS/084	10-Feb	60-49N: 01-44E	Oil	Crude	42.8 litres	Alwyn North	Water Treatment Plant failure.
*UKCS/1010	12-Feb	58-14N: 01-07E	Oil	Crude	35 litres	Balmoral	Leak at base of flexible riser.
*UKCS/1011	13-Feb	56-42N: 02-20E	Oil	Crude	Nk	Judy	Methanol injected into well fluids during start up.
*UKCS/1012	13-Feb	57-43N: 01-02E	Chemical	Cement Mix	14 tonnes	Forties Echo	Mechanical failure.
UKCS/087	14-Feb	58-48N: 01-22E	Oil	Crude	79 litres	Brae Bravo	Investigation underway at time of reporting.
UKCS/088	14-Feb	61-06N: 01-19E	Oil	Diesel	1 litre	North West Hutton	Leakage from Diesel System.
UKCS/089	15-Feb	53-14N: 02-37E	Oil	Hydraulic	180 litres	Corvette 49/24	Seal failure on hydraulic pipe.
*UKCS/1013	16-Feb	57-05N: 00:53E	Oil	Crude	10 litres	Clapham	Not reported.
*UKCS/1014	16-Feb	56-30N: 02-09E	Oil	Crude	2 litres	Fulmar Alpha	Drain line tundish corroded.
UKCS/091	17-Feb	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Produced Water System malfunction.
*UKCS/1015	19-Feb	58-14N: 01-07E	Oil	Crude	15 litres	Balmoral	Leak at base of flexible riser.
UKCS/092	19-Feb	58-42N: 01-17E	Oil	Crude	52 litres	Brae Alpha	Produced Water System malfunction.
*UKCS/1016	20-Feb	57-11N: 01-00E	Oil	Crude	110 litres	Gannet Alpha	Produced Water System malfunction.
UKCS/093	20-Feb	53-28N: 01-44E	Oil	Crude	20 litres	Sole Pit	Produced Water System malfunction.
UKCS/094	20-Feb	58-03N: 01-24E	Oil	Crude	Nk	Andrew	Produced Water System malfunction.
UKCS/095	20-Feb	58-02N: 01-07E	Oil	Crude	Nk	Britannia	Produced Water System malfunction.
UKCS/097	22-Feb	53-21N: 01-18E	Oil	Diesel	1.4 tonnes	Waveney 48/17C	Failure of diesel injector pipes.
UKCS/098	23-Feb	53-05N: 02-08E	Chemical	Glycol	5.06 tonnes	Leman Alpha	Rupture of seabed pipeline.
*UKCS/1017	24-Feb	53-04N: 02-14E	Oil	Hydraulic	0.1 litres	Leman 49/27	Hose failure.
*UKCS/1018	24-Feb	58-14N: 01-07E	Oil	Crude	120 litres	Balmoral	Not reported.
*UKCS/1019	25-Feb	53-05N: 02-33E	Oil	Crude	Nk	Thames Platform	Produced Water System malfunction.
UKCS/100	25-Feb	57-54N: 00-02E	Chemical	Perfecto T46	300 litres	Buchan Alpha	Sight glass failure.
UKCS/101	25-Feb	56-44N: 01-18E	Oil	Crude	10 litres	Maersk Curlew	Drain valve left open accidentally.
UKCS/194	28-Feb	59-17N: 01-31E	Oil	Crude	8 litres	BP Harding	Process upset caused high oil in water content.
UKCS/102	29-Feb	59-37N: 01-31E	Oil	Diesel	8.5 litres	Beryl Bravo	Bunkering spill.
UKCS/103	02-Mar	57-43N: 00-54E	Oil	Crude	231 litres	Forties Delta	Produced Water System malfunction.
*UKCS/1020	06-Mar	60-49N:01-44E	Oil	Nk	0.5 litres	Alwyn North	Not reported.
*UKCS/1021	07-Mar	61-37N: 01-18E	Chemical	Oceanic HW443	215 kg	Magnus	Damage by fishing vessel nets during trawling.
UKCS/104	07-Mar	58-08N: 03-06W	Oil	Crude	400 litres	Beatrice	Door seal on pig launcher failed.

UKCS/105	07-Mar	56-42N: 02-20E	Oil	Crude	Nk	Judy	Produced Water System malfunction.
UKCS/106	07-Mar	60-48N: 01-01E	Oil	Crude	1.5 tonnes	Ninian Southern	Oily water caisson overflowed.
*UKCS/1022	08-Mar	60-51N: 01-28E	Oil	Crude	400 litres	Ninian Central	Produced Water System malfunction.
UKCS/107	08-Mar	59-37N: 01-31E	Oil	Crude	1 litre	Beryl Bravo	Produced Water System malfunction.
*UKCS/1023	09-Mar	60-49N: 01-44E	Oil	Nk	80 litres	Alwyn North	Not reported.
UKCS/108	10-Mar	58-18N: 01-46W	Oil	Crude	10 litres	Captain WPP	Accidental displacement of oily fluid to sea.
UKCS/109	10-Mar	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Water Treatment Plant upset.
UKCS/111	11-Mar	58-02N: 01-07E	Oil	Hydraulic	15 litres	Stena Spey	Burst ROV hydraulic hose.
UKCS/112	12-Mar	60-54N: 01-16E	Chemical	20% HCL	400 kg	DSV Pelican	Seal failure between manifold and hose pipe.
UKCS/113	13-Mar	58-25N: 00-19W	Chemical	Silicate liquid	1.363 tonnes	Claymore Alpha	Hose failure.
*UKCS/1024	14-Mar	58-53N: 01-32E	Oil	Grease	200 litres	East Brae	Cargo spillage.
UKCS/114	14-Mar	57-18N: 01-40E	Oil	Hydraulic	800 litres	Mungo	Failure of small bore pipework.
UKCS/115	14-Mar	61-02N: 01-42E	Oil	Nk	6 litres	Brent Alpha	Leak from underside of interceptor.
UKCS/117	14-Mar	58-48N: 01-22E	Oil	Diesel	0.04 litres	Brae Bravo	Leaking bunkering hose.
UKCS/118	15-Mar	56-11N: 02-46E	Oil	Crude	Nk	Gorilla 7	Produced Water System malfunction.
UKCS/119	16-Mar	57-27N: 01-23E	Oil	Crude	Nk	Montrose Alpha	Produced Water System malfunction.
UKCS/120	17-Mar	61-06N: 01-19E	Chemical	Fluorescein dye	1 litre	North West Hutton	Pin hole leak in container.
*UKCS/1025	20-Mar	56-50N: 02-15E	Oil	Diesel	78 litres	J Black	Bunkering hose damaged.
UKCS/121	24-Mar	57-10N: 01-57E	Oil	Crude	Nk	Shearwater	Produced Water System malfunction.
UKCS/122	24-Mar	53-05N: 02-32E	Oil	Crude	Nk	Thames Platform	Produced Water System malfunction.
UKCS/123	25-Mar	58-42N: 01-17E	Oil	Crude	Nk	Brae Alpha	Investigation under way at time of reporting.
UKCS/124	25-Mar	59-37N: 01-31E	Oil	Crude	31 litres	Beryl Bravo	Produced Water System malfunction.
UKCS/125	26-Mar	57-01N: 01-50E	Oil	Seal	0.02 litres	Elgin PUQ	Pump failure.
UKCS/126	26-Mar	61-16N: 01-36E	Oil	Crude	Nk	Dunlin Alpha	Produced Water System malfunction.
*UKCS/1026	27-Mar	58-18N: 01-46W	Oil	Diesel	10 litres	Captain WPP	Bunkering hose damaged.
UKCS/127	27-Mar	54-02N: 01-06E	Oil	Condensate	1 litre	Ravenspurn North	Leakage from drains caisson.
UKCS/128	27-Mar	57-27N: 01-23E	Oil	Crude	3 litres	Montrose Alpha	Drain valve accidentally left open.
UKCS/129	27-Mar	61-17N: 00-55E	Other	Baker Petrolite RBW	25 litres	Tern Alpha	Flange gasket leak on discharge line.
UKCS/130	28-Mar	59-37N: 00-31E	Oil	Crude	6 litres	Beryl Bravo	Drilling caisson problem.
UKCS/131	29-Mar	57-27N: 01-23E	Oil	Crude	Nk	Montrose Alpha	Produced Water System malfunction.

UKCS/134	30-Mar	60-48N: 01-02E	Oil	Crude	100 litres	Ninian Southern	Oily water caisson discharge.
UKCS/195	03-Apr	53-11N: 02-52E	Oil	Fuel	10 litres	Sean	Bunkering hose damaged.
UKCS/196	04-Apr	57-15N: 00-49E	Oil	Crude	700 litres	Anasuria	Produced Water System malfunction.
UKCS/197	05-Apr	61-37N: 01-18E	Oil	Lubrication	2 tonnes	Magnus	Leak in lube oil cooling system.
UKCS/199	05-Apr	57-18N: 01-40E	Oil	Oily water	0.4 litres	ETAP	Spillage while clearing blockage in suction line.
UKCS/200	07-Apr	53-14N: 02-49E	Oil	Hydraulic (T-15)	200 litres	Sean Field	Corroded stainless steel tubing.
UKCS/201	08-Apr	58-42N: 01-17E	Oil	Crude	16.4 litres	Brae Alpha	Produced Water System malfunction.
UKCS/202	09-Apr	57-05N: 02-05E	Other	Oil-based mud	1.59 tonnes	GSF Arctic IV	Failure of diverter flow line seal.
UKCS/203	09-Apr	61-03N: 01-43E	Oil	Base (low toxicity)	1.27 tonnes	Brent Bravo	Wing tank overflow during bunkering operation.
UKCS/204	09-Apr	58-42N: 01-17E	Oil	Crude	4.7 litres	Brae Alpha	Platform drains overloaded.
UKCS/173	10-Apr	58-06N: 01-26W	Oil	Crude	15 litres	Bleo Holm	Overflow from drains system.
UKCS/172	10-Apr	57-40N: 00-02W	Oil	Hydraulic	60 litres	Sedco 714	Hose connection failure.
*UKCS/1027	11-Apr	57-05N: 00-54E	Oil	Crude	Nk	Triton	Slop tank discharge.
UKCS/205	11-Apr	61-21N: 01-10E	Chemical	Methanol	24 litres	Eider Alpha	Failed line joint.
UKCS/206	11-Apr	61-17N: 00-55E	Oil	Hydraulic	1 litre	Tern Alpha	Leaking fitting on hydraulic line.
*UKCS/1028	12-Apr	57-22N: 01-23E	Oil	Nk	0.1 litres	Arbroath	Hose disconnected.
UKCS/174	12-Apr	58-18N: 01-46W	Other	Baracarb	500 kg	Captain WPP	Ruptured hose during dry powder transfer.
UKCS/207	12-Apr	58-14N: 01-07E	Oil	Crude	3 litres	Balmoral	Produced Water System malfunction.
UKCS/208	13-Apr	56-27N: 02-17E	Oil	Nk	11 litres	Clyde	Source and cause of spillage unknown.
UKCS/209	13-Apr	53-50N: 02-28E	Oil	Hydraulic	1 litre	Rough 47/3B	Inadvertent operation of low level switch.
UKCS/305	14-Apr	58-08N: 03-06W	Oil	Crude	100 litres	Beatrice Alpha	Hole in recovered oil tank (rot).
UKCS/211	15-Apr	61-02N: 01-07E	Oil	Hydraulic	5 litres	Cormorant Alpha	Damaged hydraulic jumper hose.
UKCS/214	18-Apr	58-43N: 01-24E	Oil	Crude	1 litre	Miller	Pump failure.
UKCS/215	19-Apr	53-07N: 02-04E	Oil	Lubrication	16 litres	Leman 49/26-F	Seal failure on well head upper mast gate valve.
*UKCS/1029	20-Apr	60-49N: 01-44E	Oil	Crude	25 litres	Alwyn North	Plant upset.
UKCS/216	20-Apr	58-29N: 01-16E	Oil	Diesel	500 litres	Tiffany	Transfer hose damaged.
UKCS/217	21-Apr	57-22N: 01-23E	Oil	Oily water	0.09 litres	Arbroath	Human failure while disconnecting hose.
UKCS/218	21-Apr	58-43N: 01-24E	Oil	Crude	0.5 litres	Miller	Displacement of open drains caisson contents.
UKCS/219	21-Apr	57-09N: 02-17E	Oil	Hydraulic	0.5 litres	Sedco 711	Loose fitting on ROV.
*UKCS/1030	23-Apr	59-33N: 01-39E	Oil	Crude	Nk	GPIII	Water overboard during water injection trip.

*UKCS/1031	23-Apr	56-24N: 02-15E	Chemical	Cleartron KZB281	0.6 kg	Janice Alpha	Not reported.
UKCS/220	24-Apr	58-14N: 01-07E	Oil	Crude	30 litres	Balmoral	Small leak over 6 days from flexible riser.
UKCS/222	25-Apr	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Water treatment plant temporarily overwhelmed.
UKCS/224	28-Apr	57-38N: 01-22E	Other	Stack Magic 200	45 kg	Ocean Guardian	Hose damaged by overhead crane.
UKCS/225	28-Apr	59-33N: 01-32E	Oil	Diesel	1.2 kg	Beryl Alpha	Bunker hose damaged at platform manifold.
UKCS/226	29-Apr	57-18N: 01-40E	Oil	Crude	4 litres	ETAP	Cavity valve in open position on import line.
*UKCS/1032	02-May	61-02N: 01-08E	Oil	Nk	Nk	Ocean Guardian	Unknown.
UKCS/179	02-May	58-07N: 03-05W	Chemical	TROS 650	0.024 kg	Beatrice Alpha	Leakage of oxygen scavenger from subsea pipeline.
*UKCS/1033	05-May	60-38N: 01-39E	Oil	Crude	0.01 litres	Dunbar	Leak on oily water caisson.
UKCS/229	05-May	57-11N: 01-00E	Oil	Crude	90 litres	Gannet Alpha	Produced Water System malfunction.
*UKCS/1034	07-May	61-34N: 01-16E	Oil	Nk	Nk	Sedco 714	Unknown.
UKCS/230	07-May	58-03N: 01-05E	Oil	Diesel	150 litres	Alba North	Spillage via hazardous drains pipe vent.
*UKCS/1035	08-May	58-02N: 01-07E	Oil	Diesel	0.2 litres	Britannia	Not reported.
UKCS/232	08-May	58-42N: 01-17E	Oil	Crude	Nk	Brae Alpha	Produced Water System malfunction.
UKCS/233	08-May	58-43N: 01-24E	Oil	Crude	Nk	Miller	Spillage to sea via hazardous drains caisson.
UKCS/234	09-May	57-11N: 01-00E	Chemical	Heating medium	2 tonnes	Gannet Alpha	Spillage of Nalfleet 9111C following gasket failure.
*UKCS/1036	10-May	57-18N: 01-40E	Chemical	Oceanic HW443	0.1 litres	ETAP	Discharge over 3 days.
UKCS/182	10-May	58-25N: 00-19W	Other	Water-based mud	400 litres	Claymore Alpha	Spillage of milling fluid by valve in diverter line.
UKCS/235	10-May	59-45N: 01-40E	Chemical	Oceanic HW443	24.56 tonnes	Bruce	Subsea leakage of aqueous glycol mixture.
UKCS/236	10-May	58-43N: 01-24E	Oil	Oily emulsion	500 litres	Miller	Spillage from open drains caisson.
UKCS/237	12-May	57-43N: 00-45E	Oil	Diesel	1.7 tonnes	Forties Unity	Broken 'O' ring on a diesel pump filter.
*UKCS/1037	13-May	57-05N: 00-54E	Oil	Crude	160 litres	Triton	Crude oil coolers.
UKCS/238	14-May	60-57N: 00-56E	Oil	Oil and grease	0.4 litres	Heather	Spillage from skid deck.
*UKCS/1038	15-May	57-05N: 00-54E	Oil	Crude	200 litres	Triton	Not reported.
*UKCS/1039	15-May	61-34N: 01-16E	Chemical	3% A-FFF	756 kg	Sedco 714	Check valve leakage.
UKCS/183	15-May	58-18N: 01-45W	Oil	Diesel	5 litres	Captain FPSO	Defective hose during bunkering operation.
UKCS/239	15-May	57-05N: 02-05E	Other	Oil-based mud	8 litres	GSF Arctic IV	Trapped gas/mud vented overboard.
UKCS/241	15-May	57-18N: 01-40E	Chemical	Hydrate inhibitor	1 kg	ETAP	Leakage from cracked pipework weld.
*UKCS/1040	16-May	53-32N: 03-34W	Oil	Nk	Nk	Douglas	Unknown.
UKCS/242	17-May	61-06N: 01-43E	Oil	Crude	37.5 litres	Brent Charlie	Produced Water System malfunction.

*UKCS/1041	18-May	60-49N: 01-44E	Oil	Oily water	Nk	Alwyn North	Produced Water System malfunction.
UKCS/244	20-May	61-24N: 01-44E	Oil	Crude	6.4 litres	Murchison	Report received Atlantic 405.
UKCS/245	20-May	53-28N: 01-44E	Oil	Water/diesel mixture	11 litres	Clipper 48/19A	Spillage following accident with platform crane.
UKCS/247	21-May	57-11N: 01-00E	Oil	Crude	350 litres	Gannet Alpha	Produced Water System malfunction.
UKCS/248	22-May	60-55N: 01-42E	Oil	Crude	158.8 litres	Sedco 704	Fluid expressed through flare boom.
UKCS/249	23-May	59-33N: 01-32E	Oil	Crude	17 litres	Beryl Alpha	Spillage from single point mooring.
UKCS/186	23-May	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/250	23-May	59-37N: 01-30E	Oil	Crude	Nk	Beryl Bravo	Produced Water System malfunction.
UKCS/251	24-May	56-27N: 02-17E	Oil	Crude	100 litres	Clyde	Overflowing sump oil tank.
UKCS/187	25-May	58-18N: 01-46W	Oil	Crude	15 litres	Captain WPP	Spillage following wash down of drill floor.
UKCS/252	26-May	60-56N: 01-42E	Other	Synthetic base oil	0.7 litres	Sedco 704	Minor subsea escape of fluid from wellhead.
UKCS/253	27-May	59-37N: 01-31E	Oil	Crude	2 tonnes	Beryl Bravo	Leakage from subsea well.
UKCS/255	27-May	58-42N: 01-17E	Oil	Crude	125 litres	Brae Alpha	Produced Water System malfunction.
UKCS/256	28-May	58-42N: 01-17E	Oil	Crude	84 litres	Brae Alpha	Slop oil waste tank valve left open.
UKCS/257	29-May	53-03N: 01-41E	Oil	Hydraulic	300 litres	Hewett 48/29B	Failure of slide valve on well control panel.
UKCS/258	29-May	57-40N: 01-09E	Oil	Crude	8 litres	Nelson	Spillage from flare knock-out drum.
UKCS/188	30-May	58-25N: 00-19W	Other	Water-based mud	1.59 tonnes	Claymore Alpha	Inadvertent discharge from trip tank.
UKCS/259	30-May	57-11N: 01-00E	Oil	Crude	Nk	Gannet Alpha	Produced Water System malfunction.
UKCS/260	30-May	61-02N: 01-42E	Oil	Diesel	135 litres	Brent Alpha	Supply valve accidentally knocked open.
UKCS/261	30-May	57-02N: 01-58E	Oil	Hydraulic	3.32 litres	Shearwater	Failed control line valve.
*UKCS/1042	31-May	57-27N: 01-33E	Oil	Crude	Nk	Montrose Alpha	Unknown.
UKCS/262	31-May	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/264	31-May	53-05N: 02-32E	Oil	Oily water	Nk	Thames Platform	Produced Water System malfunction.
*UKCS/1043	01-Jun	57-01N: 01-50E	Oil	Hydraulic	204 litres	Elgin PUQ	Hydraulic hose failure.
*UKCS/1044	01-Jun	57-33N: 00-54W	Oil	Diesel	Nk	Sedco 714	Unknown.
UKCS/266	01-Jun	53-27N: 01-20E	Oil	Crude	Nk	Excalibur 48/17A	Produced Water System malfunction.
UKCS/268	01-Jun	61-17N: 00-55E	Oil	Hydraulic	160 litres	Tern Alpha	Burst hose on fan motor line.
*UKCS/1045	02-Jun	57-28N: 00-31E	Oil	Crude	130 litres	Kittiwake	Process upset.
UKCS/269	02-Jun	57-00N: 01-50E	Oil	Hydraulic	204 litres	Elgin	Hose failure.
UKCS/270	03-Jun	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.

UKCS/271	04-Jun	61-14N: 01-09E	Oil	Crude	865 litres	North Cormorant	Sea sump process upset.
UKCS/272	04-Jun	57-27N: 01-23E	Oil	Crude	20 litres	Montrose Alpha	Investigation underway at time of reporting.
UKCS/273	04-Jun	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/275	04-Jun	58-43N: 01-24E	Oil	Oily emulsion	11 litres	Miller	Discharge from hazardous open drains caisson.
UKCS/354	05-Jun	58-42N: 01-17E	Other	Oil-based mud (54%)	12 litres	Brae Alpha	Hose failure during bunkering operation.
UKCS/276	05-Jun	61-06N: 01-19E	Oil	Diesel	0.2 litres	North West Hutton	Spillage of residual diesel in hose.
*UKCS/1046	06-Jun	58-43N: 01-24E	Oil	Emulsion	0.1 litres	Miller	Hazardous open drains caisson.
*UKCS/1047	06-Jun	58-03N: 01-08E	Oil	Condensate	0.02 litres	Britannia	Condensate flushed from deck.
UKCS/277	06-Jun	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/278	06-Jun	61-08N: 01-44E	Other	Oil-based mud	27 litres	Brent Delta	Spillage of low toxicity mud (70% oil).
UKCS/280	06-Jun	58-22N: 00-04E	Oil	Crude	9 litres	Tartan	Reported by Atlantic 405.
UKCS/281	06-Jun	58-14N: 01-06E	Oil	Crude	60 litres	Balmoral	Produced Water System malfunction.
*UKCS/1048	07-Jun	60-57N: 00-56E	Chemical	Paragon 100E+	8 kg	Heather Alpha	Firewater overboard dump to sea.
*UKCS/1049	07-Jun	53-05N: 02-33E	Oil	Crude	Nk	Thames	Production water upset.
UKCS/284	07-Jun	60-57N: 00-56E	Oil	Crude	80 litres	Heather Alpha	Firewater overboard dump to sea.
*UKCS/1050	08-Jun	53-05N: 02-33E	Oil	Crude	Nk	Thames	Production water upset.
UKCS/285	08-Jun	54-04N: 00-54E	Oil	Hydraulic	1 litre	Ravenspurn Platform	Leakage from pipework due to corrosion.
UKCS/286	08-Jun	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Water Treatment Plant upset.
UKCS/287	10-Jun	60-51N: 01-28E	Oil	Crude	50 litres	Ninian Central	Spillage from oily water caisson.
UKCS/288	12-Jun	56-27N: 02-17E	Other	Oil-based mud (59%)	160 litres	Clyde	Re-injection unit overflow.
UKCS/190	13-Jun	58-13N: 01-45W	Oil	Crude	Nk	Captain FPSO	Hole in produced water line.
*UKCS/1051	14-Jun	53-05N: 02-33E	Oil	Crude	Nk	Thames	Production water upset.
UKCS/289	14-Jun	58-42N: 01-17E	Oil	Crude	0.35 litres	Brae Alpha	Produced Water System malfunction.
UKCS/290	14-Jun	58-42N: 01-17E	Oil	Diesel	24 litres	Brae Alpha	Spill during change out of bunkering hose.
*UKCS/1052	16-Jun	57-01N: 01-50E	Oil	Hydraulic	0.2 litres	Elgin PUQ	Hose failure.
UKCS/291	16-Jun	60-57N: 00-56E	Oil	Diesel	10 litres	Heather Alpha	Hose burst during bunkering operation.
UKCS/293	16-Jun	57-43N: 00-54E	Oil	Crude	25 litres	Forties Delta	Discharge from injection overboard dump.
UKCS/011	18-Jun	60-21N: 04-04W	Oil	Crude	85 litres	Schiehallion	Oil carry over into produced water.
UKCS/294	18-Jun	57-27N: 01-23E	Oil	Crude	Nk	Montrose Alpha	Produced Water System malfunction.
UKCS/295	18-Jun	56-43N: 01-18E	Other	Shotblast residue	104 litres	Maersk Curlew	Overflow from open drains on deck.

UKCS/191	19-Jun	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/297	20-Jun	57-44N: 00-51E	Oil	Diesel	12 litres	Forties Charlie	Investigation underway at time of reporting.
*UKCS/1053	21-Jun	54-06N: 00-32E	Chemical	Oceanic HW443	750 kg	Whittle	Leak on subsea umbilical line.
UKCS/298	21-Jun	59-33N: 01-32E	Oil	Lubrication	0.006 litres	Beryl Alpha	Seawater injection pump seal failure.
*UKCS/1054	22-Jun	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Production water upset.
UKCS/192	22-Jun	58-06N: 01-26W	Oil	Crude	45.6 litres	Bleo Holm	Produced Water System malfunction.
UKCS/299	22-Jun	59-22N: 01-34E	Oil	Crude	2.88 litres	Gryphon Alpha	Produced Water System malfunction.
UKCS/300	22-Jun	56-27N: 02-17E	Oil	Crude	210 litres	Clyde	Produced Water System malfunction.
UKCS/302	23-Jun	58-29N: 01-16E	Other	Heating medium	10 litres	Tiffany	Leakage from piping system.
UKCS/304	24-Jun	59-21N: 01-33E	Oil	Crude	50 litres	NTVL	Drop out from well test flare boom.
UKCS/305	26-Jun	58-23N: 00-04E	Oil	Crude	11 litres	Tartan Alpha	Produced Water System malfunction.
*UKCS/1055	28-Jun	60-51N: 01-28E	Oil	Crude	200 litres	Ninian Central	Water pumped out of main diesel storage tank.
*UKCS/1056	28-Jun	59-37N: 01-30E	Oil	Crude	Nk	Beryl Bravo	Production water upset.
*UKCS/1057	28-Jun	56-27N: 02-17E	Oil	Crude	Nk	Clyde	Production water upset.
*UKCS/1058	29-Jun	56-30N: 02-09E	Oil	Hydraulic	127 litres	Fulmar Alpha	Failure of pipe compression fitting.
*UKCS/1059	30-Jun	57-22N: 01-23E	Oil	Nk	0.6 litres	Arbroath	Upset of oily water plant.
UKCS/355	01-Jul	53-03N: 02-14E	Oil	Condensate	0.3 litres	Leman 49/27AD	Accidental movement of needle valve on well line.
UKCS/356	01-Jul	53-07N: 02-04E	Oil	Diesel	2 litres	Leman 49/26-F	Two small holes in steel pipework.
UKCS/357	01-Jul	57-17N: 02-11E	Oil	Diesel	7.36 tonnes	Lomond Platform	Overflow from bunkering tank.
UKCS/358	02-Jul	58-12N: 00-06E	Oil	Crude	8 litres	AH001	Report from Atlantic 406.
*UKCS/1060	04-Jul	58-03N: 01-08E	Oil	Crude	2.5 litres	Britannia	Unknown.
*UKCS/1061	04-Jul	53-05N: 02-33E	Oil	Crude	Nk	Thames	Production water upset.
UKCS/360	04-Jul	58-43N: 01-24E	Oil	Crude	30 litres	Miller	Produced Water System malfunction.
UKCS/361	04-Jul	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/362	04-Jul	57-40N: 01-09E	Oil	Diesel	5 litres	Nelson	Non-hazardous drains water outlet.
UKCS/363	04-Jul	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/364	04-Jul	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1062	05-Jul	58-42N: 01-17E	Other	Oil-based mud	12 litres	Brae Alpha	Hose rupture.
*UKCS/1063	05-Jul	58-03N: 01-08E	Oil	Hydraulic	27 litres	Britannia	Not reported.
UKCS/365	05-Jul	57-43N: 00-57E	Oil	Crude	100 litres	Forties Delta	Produced Water System malfunction.

UKCS/366	06-Jul	58-14N: 01-07E	Oil	Crude	1 litre	Balmoral FPV	Small leakage from sub-sea pipeline.
UKCS/367	06-Jul	60-48N: 01-02E	Other	Injection water	1 litre	Ninian Southern	Leakage from sub-sea manifold.
UKCS/371	09-Jul	53-49N: 00-28E	Oil	Diesel	9 litres	Rough 47/8A	Hose failure on platform crane.
UKCS/372	09-Jul	58-28N: 00-15E	Oil	Diesel	6 litres	Piper Bravo	Tank overflow during filling operation.
UKCS/374	10-Jul	58-03N: 01-05E	Oil	Crude	Nk	Alba North	Produced Water System malfunction.
*UKCS/1064	11-Jul	57-11N: 01057E	Oil	Lubrication	800 litres	Shearwater	Waste lube oil disposal.
UKCS/375	11-Jul	59-34N: 01-40E	Oil	Hydraulic	300 litres	Global Producer III	Incident ongoing at time of reporting.
UKCS/376	11-Jul	53-24N: 02-31E	Oil	Diesel	24 litres	Indefatigable 18B	Leaking fuel filter.
UKCS/377	11-Jul	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1065	12-Jul	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Produced Water System malfunction.
UKCS/378	13-Jul	58-58N: 01-52E	Oil	Crude	750 litres	Magellan	Hose failure.
UKCS/379	13-Jul	60-57N: 00-56E	Oil	Crude	Nk	Heather Alpha	Produced Water system malfunction.
UKCS/380	14-Jul	60-51N: 01-28E	Oil	Crude	120 litres	Ninian Central	Leaks from platform closed drains system.
UKCS/381	14-Jul	57-22N: 01-23E	Oil	Lubrication	0.3 litres	Arbroath	Hose parted on barrel pump during engine filling.
*UKCS/1066	15-Jul	60-38N: 01-39E	Oil	Diesel	0.1 litres	Dunbar	Hazardous open drains caisson.
UKCS/382	15-Jul	56-30N: 02-09E	Oil	Crude	0.3 litres	Fulmar Alpha	Leakage through hole in bund.
UKCS/383	16-Jul	58-48N: 01-22E	Chemical	Sim Resin	25 kg	Brae Bravo	Bag split during filling.
UKCS/384	16-Jul	58-09N: 00-23E	Oil	Hydraulic	10 litres	Goldeneye	Pinhole failure in plug.
UKCS/385	16-Jul	61-37N: 01-18E	Oil	Crude	Nk	Magnus	Produced Water System malfunction.
UKCS/388	18-Jul	61-22N: 01-35W	Oil	Diesel	420 litres	Thistle	Bunkering overflow from storage leg.
*UKCS/1067	19-Jul	58-14N: 01-07E	Oil	Nk	10 litres	Balmoral	Not reported.
*UKCS/1068	22-Jul	53-33N: 01-05E	Oil	Nk	249 litres	Pickerill	Unknown.
UKCS/394	22-Jul	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Upset of oily water plant.
UKCS/395	23-Jul	59-22N: 01-34E	Oil	Hydraulic	100 litres	Gryphon Alpha	Ongoing spillage at time of reporting.
UKCS/396	23-Jul	56-24N: 02-15E	Chemical	Cleartron KZB281	0.6 litres	Janice Alpha	De-oiling substance incorrectly disposed of.
UKCS/398	24-Jul	53-26N: 02-41E	Oil	Hydraulic	60 litres	Brigantine BR 49/19	Failure of flexible control hosing.
UKCS/338	24-Jul	60-42N: 02-33W	Oil	Diesel	4 litres	BP Clair	Discharge from non-hazardous drain sumps.
UKCS/400	24-Jul	56-27N: 02-17E	Other	Brine	795.3 litres	Clyde	Failure of fitting.
*UKCS/1069	26-Jul	53-32N: 03-34W	Chemical	Nk	1 kg	Douglas	Hose failure.
UKCS/402	27-Jul	61-06N: 01-45E	Oil	Crude	45 litres	Cormorant Alpha	Open hazardous drain overflow overboard.

UKCS/403	28-Jul	56-24N: 02-16E	Oil	Crude	5.6 litres	Janice Alpha	Source and cause of discharge under investigation.
UKCS/404	29-Jul	58-18N: 01-46W	Oil	Crude	10 litres	Captain WPP	Overflow from sample point pot.
UKCS/405	30-Jul	54-02N: 01-06E	Oil	Condensate	100 litres	Ravenspurn North	Discharge due to faulty pump.
UKCS/406	31-Jul	60-57N: 00-56E	Chemical	Inhibited methanol	Nk	Heather Alpha	Suspected leakage from subsea injection hoses.
UKCS/407	31-Jul	61-16N: 01-36E	Oil	Crude	Nk	Dunlin Alpha	Produced Water System malfunction.
UKCS/408	31-Jul	58-23N: 00-04E	Oil	Diesel	5 litres	Tartan Alpha	Failure of diesel system during fuel change.
UKCS/409	01-Aug	60-21N: 04-04W	Oil	Crude	210 litres	Schiehallion	Produced Water System malfunction.
UKCS/410	01-Aug	58-17N: 00-12E	Oil	Crude	600 litres	Scott Platform	Malfunction in well separator.
*UKCS/1070	01-Aug	53-07N: 02-04E	Oil	Diesel	1.5 litres	Leman Foxtrot	Hole in steel pipework containing diesel fuel.
*UKCS/1071	02-Aug	60-38N: 01-39E	Oil	Diesel	0.001 litres	Dunbar	Plug missing from Maid Diesel Air Compressor.
UKCS/411	02-Aug	58-52N: 01-31E	Oil	Hydraulic	1 litre	East Brae	Fitting leak at loose connection.
UKCS/412	02-Aug	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Treatment plant upset during pipeline flushing.
UKCS/413	03-Aug	58-23N: 00-04E	Oil	Crude	10 litres	Tartan Alpha	Vent overflow from main oil line pump.
UKCS/414	03-Aug	53-02N: 02-18E	Oil	Hydraulic	25 litres	Leman 49/27F	Ruptured hose in wellhead oil tank.
UKCS/415	03-Aug	53-32N: 03-35W	Oil	Diesel	9 litres	Douglas	Oily water spillage from open drains tank.
*UKCS/1072	04-Aug	60-49N: 01-44E	Oil	Nk	Nk	Alwyn North	Unknown.
UKCS/418	05-Aug	56-27N: 02-17E	Oil	Crude	40 litres	Clyde	Degasser contents inadvertently discharged.
UKCS/419	05-Aug	53-05N: 02-32E	Oil	Crude	Nk	Thames 49/28	Produced Water System malfunction.
UKCS/420	05-Aug	60-49N: 01-44E	Oil	Lubrication	0.02 litres	Alwyn North	Minor seepage after clean-up.
*UKCS/1073	06-Aug	60-55N: 01-42E	Oil	Nk	0.2 litres	Sedco 704	Unknown.
UKCS/421	06-Aug	57-44N: 00-58E	Oil	Crude	5 litres	Forties Alpha	Leakage caused corroded pipework.
UKCS/422	06-Aug	53-27N: 02-20E	Oil	Diesel	18 litres	Viking B49/17	Split hose during bunkering operation.
UKCS/425	08-Aug	58-01N: 00-44E	Oil	Hydraulic	35 litres	JW Mclean	Accidental leakage from ROV.
UKCS/426	08-Aug	57-59N: 00-06W	Oil	Crude	25 litres	Ocean Princess	Fallout of hydrocarbons from flare.
UKCS/427	10-Aug	57-43N: 00-54E	Oil	Crude	822 litres	Forties Delta	Produced Water System malfunction.
UKCS/428	10-Aug	61-02N: 01-08E	Other	Oil-based mud (70% oil)	90 litres	Ocean Guardian	Valve malfunction during displacement operation.
UKCS/430	12-Aug	60-49N: 01-44E	Oil	Crude	6 litres	Alwyn North	Transfer pump malfunction on oily water caisson.
UKCS/431	13-Aug	56-24N: 02-15E	Oil	Crude	98 litres	Janice Alpha	Subsea leakage.
UKCS/432	14-Aug	53-14N: 02-37E	Oil	Hydraulic	150 litres	Corvette 49/24	Fitting failure on glycol export valve.
UKCS/433	14-Aug	58-42N: 01-17E	Oil	Crude	Nk	Brae Alpha	Produced Water System malfunction.

UKCS/434	14-Aug	61-21N: 01-35E	Oil	Diesel	300 litres	Thistle Alpha	Pipe work failure.
UKCS/438	16-Aug	58-23N: 00-04E	Oil	Crude	6 litres	Tartan Alpha	Storm drain discharge.
*UKCS/1074	16-Aug	58-08N: 03-06W	Chemical	Flourescent Dye	0.462 kg	Beatrice Alpha	Discharge over 6 days.
UKCS/439	20-Aug	61-16N: 01-36E	Oil	Diesel	60 litres	Dunlin Alpha	Overfill of fire pump diesel tank.
UKCS/340	22-Aug	60-21N: 04-04W	Oil	Crude	200 litres	Schiehallion	Failure of seal on produced water pump.
UKCS/440	23-Aug	56-21N: 02-19E	Oil	Crude	600 litres	Noble TV Langevel	Drop out from well test flare boom.
UKCS/442	23-Aug	58-29N: 01-16E	Oil	Crude	10 litres	Tiffany	Produced Water System malfunction.
UKCS/443	24-Aug	57-22N: 01-23E	Other	Water-based mud	3.784 tonnes	Arbroath	Unplanned discharge during drilling operation.
*UKCS/1075	26-Aug	57-19N: 01-05E	Oil	Hydraulic	7.2 litres	Sedco 711	Loose fitting on ROV.
UKCS/445	28-Aug	56-30N: 02-09E	Oil	Diesel	2 litres	Fulmar Alpha	Tank overflow to sea.
UKCS/446	29-Aug	61-26N: 01-36E	Oil	Crude	3.2 tonnes	Murchison	Produced Water System malfunction.
UKCS/447	29-Aug	53-27N: 01-47E	Oil	Condensate	100 litres	Clipper 48/19A	Failure of liquid transfer ram seals.
UKCS/449	31-Aug	60-21N: 04-04W	Oil	Crude	90 litres	Schiehallion	Oil carry over into produced water.
UKCS/451	01-Sep	61-37N: 01-18E	Oil	Crude	170 litres	Magnus	Sea sump not emptied.
UKCS/452	02-Sep	58-18N: 01-46W	Oil	Crude	1 litre	Captain WPP	Discharge of contaminated drill cuttings.
UKCS/453	02-Sep	59-37N: 01-31E	Oil	Diesel	2 litres	Beryl Bravo	Hose failure during bunkering operation.
UKCS/454	02-Sep	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/455	02-Sep	58-48N: 01-22E	Oil	Diesel	27 litres	Brae Bravo	Malfunction open drains caisson.
UKCS/456	03-Sep	58-29N: 01-16E	Other	Heating medium	Nk	Tiffany	Produced Water System malfunction.
UKCS/457	03-Sep	58-14N: 01-07E	Oil	Crude	400 litres	Balmoral	Leakage on Talisman production pipeline.
*UKCS/1076	04-Sep	58-03N: 01-08E	Oil	Diesel	1.6 litres	Britannia	Not reported.
UKCS/458	04-Sep	56-48N: 01-21E	Oil	Crude	10 litres	Brae Bravo	Separator drain pipe work malfunction.
UKCS/459	04-Sep	57-54N: 00-02E	Oil	Crude	Nk	Buchan Alpha	Produced Water System malfunction.
UKCS/460	06-Sep	53-05N: 02-32E	Oil	Crude	Nk	Thames Platform	Produced Water System malfunction.
UKCS/461	07-Sep	61-17N: 00-55E	Oil	Crude	225 litres	Tern Alpha	Suspect gas pipeline failure.
UKCS/462	08-Sep	53-28N: 01-44E	Oil	Condensate	1 litre	Clipper	Failure of filter lid seal.
UKCS/463	08-Sep	56-24N: 02-04E	Oil	Crude	Nk	Auk Alpha	Produced Water System malfunction.
UKCS/464	09-Sep	60-57N: 00-56E	Oil	Crude	Nk	Heather Alpha	Produced Water System malfunction.
*UKCS/1077	10-Sep	59-37N: 01-31E	Oil	Crude	Nk	Beryl Bravo	Unknown.
UKCS/465	11-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Produced Water System malfunction.

UKCS/466	11-Sep	58-03N: 01-02E	Oil	Gas	2 litres	Alba FSU	Hose failure.
UKCS/467	12-Sep	59-33N: 01-32E	Oil	Crude	Nk	Beryl Alpha	Platform ballast accidentally discharged.
UKCS/468	12-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Oil in water plant overboard discharge.
*UKCS/1078	13-Sep	59-17N: 01-31E	Oil	Crude	5 litres	Harding	Disposal of crude oil down incorrect drain.
*UKCS/1079	13-Sep	56-24N: 02-15E	Oil	Crude	98 litres	Janice Alpha	Not reported.
UKCS/469	14-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Oil in water plant overboard discharge.
UKCS/470	14-Sep	60-49N: 01-44E	Oil	Crude	0.01 litres	Alwyn North	Oil in water plant overboard discharge.
UKCS/474	15-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Oil in water treatment plant discharge.
UKCS/475	16-Sep	61-17N: 00-55E	Oil	Crude	830 litres	Tern Alpha	Return seawater system overboard discharge.
UKCS/476	17-Sep	60-21N: 04-04W	Chemical	Triethylene glycol	50 litres	Schiehallion	Accidental discharge from expansion tank.
UKCS/477	17-Sep	53.00N: 01-51E	Oil	Hydraulic	100 litres	Hewitt Platform	Failure of valve actuator.
UKCS/478	17-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Overboard produced water discharge.
UKCS/479	18-Sep	60-21N: 04-04W	Oil	Crude	Nk	Schiehallion	Produced Water System malfunction.
UKCS/480	18-Sep	57-43N: 00-45E	Oil	Crude	1 litre	BP Unity	Leak from passing drain valve.
UKCS/481	18-Sep	54-16N: 02-19E	Oil	Hydraulic	12 litres	Murdoch 44/22	Hose failure.
UKCS/482	18-Sep	60-57N: 00-56E	Oil	Crude	8 litres	Heather Alpha	Cause under investigation.
*UKCS/1080	19-Sep	54-02N: 01-06E	Oil	Diesel	85 litres	Ravenspurn North	Valve failure.
UKCS/484	19-Sep	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Produced water overboard discharge.
*UKCS/1081	20-Sep	54-01N: 03-51W	Oil	Crude	Nk	Millom West	Produced Water System malfunction.
UKCS/485	20-Sep	61-17N: 00-55E	Oil	Crude	5 litres	Tern Alpha	Failure of valve stem seal.
UKCS/486	20-Sep	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/487	20-Sep	58-06N: 01-26W	Oil	Crude	33 litres	Bleo Holm	Produced Water System malfunction.
UKCS/488	20-Sep	61-22N: 01-35E	Oil	Hydraulic	50 litres	Thistle Alpha	Hose failure.
UKCS/489	20-Sep	60-42N: 02-33W	Oil	Diesel	70 litres	BP Clair	Valve failure.
UKCS/490	20-Sep	57-17N: 02-11E	Oil	Diesel	1 litre	Lomond Platform	Leakage from bunkering hose.
*UKCS/1082	21-Sep	60-19N: 04-16W	Oil	Nk	Nk	Petrojarl Foinaven	Unknown.
UKCS/492	23-Sep	60-57N: 00-56E	Oil	Crude	Nk	Heather Alpha	Produced Water System malfunction.
UKCS/493	24-Sep	60-57N: 00-56E	Oil	Crude	Nk	Heather Alpha	Produced Water System malfunction.
UKCS/494	28-Sep	58-25N: 00-19W	Oil	Lubrication	4.5 litres	Claymore Alpha	Power generation oil leakage.
UKCS/530	30-Sep	53-28N: 01-44E	Oil	Condensate	10 litres	Clipper 48/19A	Seal failure on a liquids pump.

UKCS/531	01-Oct	60-21N: 04-04W	Chemical	Triethylene glycol	50 kg	Schiehallion	Carry over from expansion tank.
UKCS/532	03-Oct	58-03N: 01-08E	Other	Transaqua	10 kg	Britannia	Human error.
UKCS/533	03-Oct	53-28N: 02-03E	Oil	Hydraulic	0.1 litres	Vampire OD 49/16	Leakage from crane hydraulic hose.
UKCS/534	03-Oct	58-08N: 00-22E	Other	Oil-based mud (50%)	1 litre	Ocean Vanguard	Spillage during transfer operation.
*UKCS/1083	05-Oct	58-02N: 01-07E	Other	Gas Condensate	520 litres	Britannia	Not reported.
*UKCS/1084	07-Oct	57-29N: 00-31E	Oil	Crude	9 litres	Kittiwake	Leaking flange joint.
UKCS/536	08-Oct	59-17N: 01-31E	Oil	Crude	248 litres	BP Harding	Process valve control failure.
UKCS/537	08-Oct	60-21N: 04-04W	Oil	Hydraulic	10 litres	Schiehallion	Failure of local pressure gauge.
UKCS/538	10-Oct	60-48N: 01-27E	Oil	Crude	Nk	Ninian Southern	Produced Water System malfunction.
UKCS/540	10-Oct	60-51N: 01-28E	Oil	Diesel	100 litres	Ninian Central	Instrumentation control failure.
*UKCS/1085	11-Oct	58-02N: 01-07E	Oil	Crude	Nk	Britannia	Spillage from Produced water degasser.
UKCS/541	11-Oct	58-17N: 00-12E	Oil	Crude	Nk	Scott Platform	Produced Water System malfunction.
UKCS/542	11-Oct	60-49N: 01-44E	Oil	Crude	0.15 litres	Alwyn North	Overflow from caisson.
UKCS/543	11-Oct	56-27N: 02-17E	Oil	Hydraulic	8 litres	Clyde	Filter housing came loose.
UKCS/544	13-Oct	53-37N: 00-47E	Chemical	Methanol	0.5 kg	Amethyst	Seepage from chemical core.
UKCS/545	14-Oct	60-19N: 04-16W	Oil	Crude	1 litre	Petrojarl Foinaven	Produced Water System malfunction.
UKCS/546	14-Oct	59-37N: 01-31E	Other	Non-aqueous fluid	2.5 litres	Beryl Bravo	Seal failure from wash pipe packing.
UKCS/547	15-Oct	58-48N: 01-22E	Oil	Crude	0.1 litres	Brae Bravo	Drainage system failure.
UKCS/548	16-Oct	53-24N: 02-39E	Oil	Hydraulic	60 litres	Brigantine 49/19	Failure of plug valve.
UKCS/549	16-Oct	61-14N: 01-09E	Oil	Hydraulic	8 litres	North Cormorant	Incorrect valve line-up.
UKCS/550	17-Oct	61-06N: 01-43E	Oil	Oily water	1.5 litres	Brent Charlie	Overflow from drains interceptor tank.
UKCS/551	17-Oct	57-02N: 02-04E	Other	Wax inhibitor	5 litres	Erskine	Leakage from bulk hose connection.
UKCS/552	18-Oct	60-49N: 01-44E	Oil	Base oil	0.75 litres	Alwyn North	Drip from fitting to deck.
UKCS/553	18-Oct	59-37N: 01-31E	Oil	Crude	660 litres	Beryl Bravo	Cause under investigation.
*UKCS/1086	19-Oct	61-17N: 00-55E	Oil	Crude	50 litres	Tern Alpha	Not reported.
UKCS/554	19-Oct	58-42N: 01-17E	Oil	Crude	Nk	Brae Alpha	Produced Water System malfunction.
UKCS/555	22-Oct	59-32N: 01-32E	Oil	Crude	Nk	Beryl Alpha	Ballast Overboard System malfunction.
UKCS/556	22-Oct	53-28N: 01-44E	Oil	Fuel	50 litres	Clipper 48/19A	Control valve failure.
UKCS/559	24-Oct	58-18N: 01-45W	Oil	Crude	3 litres	Captain FPSO	Shuttle tanker coupler spill.
UKCS/560	27-Oct	59-33N: 01-32E	Oil	Crude	Nk	Beryl Alpha	Ballast overboard problem.

UKCS/561	28-Oct	53-24N: 02-39E	Oil	Hydraulic	48 litres	Brigantine	Cause under investigation.
UKCS/562	28-Oct	60-57N: 00-56E	Oil	Nk	1 litre	Heather Alpha	Cause under investigation.
*UKCS/1087	29-Oct	60-49N: 01-44E	Oil	Diesel	78 litres	Alwyn North	Day tank level control failure.
UKCS/563	30-Oct	60-00N: 01-41E	Oil	Hydraulic	2.4 litres	Ocean Guardian	Leakage from ROV.
UKCS/564	31-Oct	58-42N: 01-17E	Oil	Crude	3.9 litres	Brae Alpha	Water Treatment System malfunction.
UKCS/565	31-Oct	58-18N: 01-45W	Oil	Diesel	20 litres	Captain FPSO	Leakage from hose coupler.
*UKCS/1088	01-Nov	53-03N: 01-41E	Oil	Nk	Nk	48/29A-Q	Discharge from passing vessel.
UKCS/566	01-Nov	52-37N: 02-19E	Other	Transaqua	880 litres	Arthur	Umbilical damaged during trencher operations.
UKCS/567	02-Nov	58-43N: 01-24E	Oil	Crude	10 litres	Miller	Caisson malfunction.
UKCS/568	02-Nov	60-57N: 00-56E	Oil	Nk	1 litre	Heather Alpha	Source and cause not known.
UKCS/569	03-Nov	57-54N: 00-02E	Oil	Crude	509 litres	Buchan Alpha	Separator valve failure.
UKCS/570	06-Nov	53-50N: 00-28E	Oil	Hydraulic	4 litres	Rough 47/8A	Loose elbow union on hydraulic line.
UKCS/571	06-Nov	60-57N: 00-56E	Oil	Crude	Nk	Heather	Produced Water System malfunction.
UKCS/573	08-Nov	57-18N: 01-40E	Oil	Hydraulic	9 litres	ETAP	Ram pump seal failure.
*UKCS/1103	09-Nov	57-42N: 01-01E	Other	Oil-based mud	1 tonne	GSF Galaxy 3	Gauge fault.
UKCS/574	10-Nov	61-14N: 01-09E	Other	Oil-based mud (48%)	7.33 tonnes	North Cormorant	Operator error causing leakage from mud pits.
UKCS/576	14-Nov	61-14N: 01-09E	Oil	Oily water	10 litres	North Cormorant	By-product of wet gas processing.
UKCS/577	15-Nov	53-50N: 00-28E	Oil	Residues	Nk	Rough 47/3B	Residues dislodged when flushing caisson.
UKCS/578	16-Nov	59-45N: 01-40E	Oil	Lubrication	270 litres	Bruce	Pin-hole leak in cooling system pump.
UKCS/579	16-Nov	58-17N: 00-28E	Oil	Crude	800 litres	Northern Producer	Valve failure.
*UKCS/1090	17-Nov	61-14N: 01-09E	Oil	Crude	10 litres	North Cormorant	Not reported.
*UKCS/1091	17-Nov	53-05N: 02-33E	Oil	Crude	Nk	Thames	Production water upset.
*UKCS/1092	08-Nov	53-05N: 02-33E	Oil	Crude	Nk	Thames	Not reported.
UKCS/581	20-Nov	60-42N: 02-33W	Oil	Lubrication	1.6 litres	Clair	Leakage from crane cooler unit.
UKCS/582	24-Nov	53-24N: 02-31E	Oil	Fuel	20 litres	Indefatigable	Split hose during bunkering operation.
UKCS/583	24-Nov	61-22N: 01-35E	Oil	Crude	Nk	Thistle	Produced Water System malfunction.
UKCS/584	24-Nov	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/585	24-Nov	58-14N: 01-07E	Oil	Diesel	126 litres	Balmoral	Hose failure during bunkering operation.
UKCS/586	25-Nov	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/587	26-Nov	60-21N: 04-04W	Oil	Crude	1 litre	Schiehallion	Carry over to flare.

UKCS/588	26-Nov	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/589	27-Nov	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/590	27-Nov	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1093	28-Nov	53-26N: 02-41E	Oil	Hydraulic	47 litres	Brigantine BG	Hose failure.
UKCS/591	01-Dec	54-18N: 01-40E	Chemical	Triethylene glycol	2 tonnes	Trent 43/24	Faulty level transmitters.
*UKCS/1094	05-Dec	57-05N: 00-54E	Oil	Crude	Nk	Triton	Slop tank discharge.
UKCS/593	05-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/594	05-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/595	06-Dec	58-06N: 01-26W	Oil	Crude	25.3 litres	Bleo Holm	Produced Water System malfunction.
UKCS/596	06-Dec	58-06N: 01-26W	Oil	Crude	26.5 litres	Bleo Holm	Produced Water System malfunction.
UKCS/597	06-Dec	58-06N: 01-26W	Oil	Crude	24.1 litres	Bleo Holm	Produced Water System malfunction.
UKCS/598	06-Dec	58-06N: 01-26W	Oil	Crude	24.4 litres	Bleo Holm	Produced Water System malfunction.
UKCS/599	06-Dec	58-06N: 01-26W	Oil	Crude	24.1 litres	Bleo Holm	Produced Water System malfunction.
UKCS/600	06-Dec	58-06N: 01-26W	Oil	Crude	34.5 litres	Bleo Holm	Produced Water System malfunction.
UKCS/601	06-Dec	58-06N: 01-26W	Oil	Crude	25.3 litres	Bleo Holm	Produced Water System malfunction.
UKCS/602	07-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/603	07-Dec	57-19N: 01-05E	Oil	Hydraulic	0.8 litres	Sedco 711	ROV seal failure.
UKCS/604	07-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/605	07-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
UKCS/607	09-Dec	57-44N: 00-51E	Oil	Diesel	1 litre	Forties Charlie	Spill during change out of hose.
UKCS/609	09-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1095	11-Dec	60-38N: 01-39E	Chemical	Methanol	200 kg	Dunbar	Failed coupling on umbilical.
UKCS/611	11-Dec	57-43N: 01-02E	Oil	Diesel	100 litres	Forties Echo	Spillage through open drain system.
*UKCS/1096	12-Dec	60-49N: 01-44E	Oil	Crude	0.2 litres	Alwyn North	Hazardous open drains caisson.
UKCS/613	12-Dec	60-57N: 00-56E	Oil	Crude	0.8 litres	Heather Alpha	Faulty valve.
*UKCS/1097	13-Dec	60-49N: 01-44E	Oil	Crude	Nk	Alwyn North	Produced Water System malfunction.
UKCS/615	17-Dec	61-08N: 01-44E	Oil	Diesel	1.7 litres	Brent Delta	Pinhole leak on discharge pressure gauge.
UKCS/616	17-Dec	57-11N: 01-00E	Chemical	Methanol	68 kg	Gannet Alpha	Valve failure.
UKCS/617	18-Dec	53-18N: 02-34E	Oil	Condensate	100 litres	Indefatigable	Vent valve not fully closed.
UKCS/618	18-Dec	57-29N: 00-31E	Oil	Diesel	2 litres	Kittiwake	Pinhole leak in hose.

UKCS/619	19-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1098	20-Dec	54-07N: 00-28E	Chemical	Methanol	100 litres	Cleeton	Unknown.
UKCS/621	20-Dec	58-28N: 00-15E	Oil	Lubrication	150 litres	Piper Bravo	Leakage from mud pump.
UKCS/626	23-Dec	57-02N: 01-57E	Oil	Diesel	1.2 litres	Shearwater	Adverse weather caused back pressure.
UKCS/627	24-Dec	58-06N: 01-26W	Oil	Crude	Nk	Bleo Holm	Produced Water System malfunction.
*UKCS/1099	26-Dec	57-40N: 00-02W	Oil	Hydraulic	1.2 litres	Sedco 714	Hydraulic leak from ROV.
*UKCS/100	27-Dec	53-16N: 02-41E	Oil	Hydraulic	240 litres	Juliet	Hose failure.
*UKCS/1101	28-Dec	57-18N: 01-40E	Oil	Crude	0.4 litres	ETAP	Valve failure.
*UKCS/1102	30-Dec	58-28N: 00-15E	Oil	Light Oil	40 litres	Piper Bravo	Unknown.

12: UKCS VESSEL DISCHARGES							
Reference	Date	Location	Category	Type	Amount	Source	Comments
UKCS/085	13-Feb	58-32N: 00-35E	Oil	Crude	305 litres	Unidentified vessel	Surface sheen broken up by wave action.
UKCS/116	14-Mar	58-53N: 01-32E	Oil	Lubrication	200 litres	Msv North Prince	Contents of drum hosed overboard for safety reasons.
UKCS/231	07-May	58-13N: 00-15E	Oil	Nk	0.63 litres	Unidentified vessel	Oily sheen reported by Sedco 714 installation.
UKCS/240	15-May	57-06N: 00-54E	Oil	Oil & garbage	200 litres	Unidentified vessel	Reported by Triton installation.
UKCS/263	31-May	57-27N: 01-23E	Oil	Crude	1 litre	Unidentified vessel	Reported by Montrose Alpha installation.
UKCS/265	31-May	59-02N: 00-37E	Oil	Crude	7 tonnes	Unidentified vessel	Slick extending for 4 km.
UKCS/267	01-Jun	58-13N: 00-14E	Oil	Diesel	5 litres	Unidentified vessel	Reported by Sedco 714 installation.
UKCS/301	23-Jun	58-03N: 01-02E	Oil	Crude	200 litres	Unidentified vessel	Reported by Atlantic 406.
UKCS/369	06-Jul	58-03N: 01-05E	Oil	Nk	17 litres	Unidentified vessel	Reported during Bonn Agreement overflight.
UKCS/387	17-Jul	57-57N: 00-10E	Oil	Nk	Nk	Unidentified vessel	Brown sheen on surface.
UKCS/389	19-Jul	58-13N: 01-06E	Oil	Crude	10 litres	Unidentified vessel	Reported by Atlantic 406.
UKCS/390	19-Jul	58-04N: 01-05E	Oil	Crude	5 litres	Unidentified vessel	Reported by Atlantic 406.
UKCS/391	21-Jul	58-03N: 01-05E	Oil	Nk	2.5 tonnes	Unidentified vessel	Reported by Alba Northern installation.
UKCS/417	04-Aug	60-49N: 01-44W	Oil	Nk	0.08 litres	Unidentified vessel	Reported by Alwyn North installation.
UKCS/496	04-Sep	58-03N: 01-08E	Oil	Diesel	2 litres	Msv Highland Valour	Bunkering spill.
UKCS/497	07-Sep	58-26N: 00-01E	Garbage	Mixed	Nk	Mfv Lynden	Plastics bags, old sleeping bag, polystyrene.
UKCS/498	10-Sep	59-37N: 01-31E	Oil	Crude	0.5 litres	Unidentified vessel	Reported by Beryl Bravo installation.

APPENDIX TWO

SURVEY QUESTIONNAIRE AND ACCOMPANYING GUIDELINES

Advisory Committee On Protection Of The Sea

Report of a vessel / offshore sourced pollution incident

1. Name of reporting organisation or agency

No pollution to report:

FOR ACOPS USE ONLY

Questionnaire No.

Incident No.

Enumeration area:

2. Does this report describe an incident involving:

1. Mineral oil

2. Garbage

3. Vegetable / animal oil

4. Chemical substance

5. Other

(select appropriate box)

3. When did pollution occur ? (insert dates)

Year	start	finish
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		

4. Zone polluted

1. Open sea

2. Tidal river or estuary

3. Bay or nearshore waters

4. Beach or shore

5. Port or harbour

6. Other

0. Not known

(select appropriate box)

6. Position or location of pollution

Lat. / Long. **OR** National grid coordinates if known

(insert details)

5. Length of time pollution remained:

At sea days weeks

not known

On shore days weeks

not known

(insert details and select units)

8. Length of coast affected

kms

OR from:

to:

OR not known:

(insert details or select 'not known')

7. Estimated volume of pollution

litres not known

m³

tonnes

(insert amount and select units)

9. Source of pollution

Vessel / offshore installation identified

Vessel / offshore installation suspected

Not known

(select appropriate box)

10. Intensity or degree of pollution

<p><i>On water</i></p> <p>1. Film, scattered blobs or lumps <input type="checkbox"/></p> <p>2. Slick up to 3 metres (10') wide <input type="checkbox"/></p> <p>3. Several slicks up to 3 metres (10') wide; or big slick 100 metres (300') extent <input type="checkbox"/></p> <p>4. Large slick, 100 metres to 1.6 km (1 mile) in extent <input type="checkbox"/></p> <p>5. Very large slick over 1.6km (1 mile) in extent <input type="checkbox"/></p> <p>0. Not known <input type="checkbox"/></p> <p><i>(select appropriate box)</i></p>	<p><i>On shore</i></p> <p>Film, blobs or lumps on shore or debris <input type="checkbox"/></p> <p>Band up to 1 metre wide <input type="checkbox"/></p> <p>Band of pollution several metres wide, or large patches all over the shore <input type="checkbox"/></p> <p>Very thick band of pollution; exposed shore 50% to 80% covered <input type="checkbox"/></p> <p>Shore totally covered with pollution <input type="checkbox"/></p> <p>Not known <input type="checkbox"/></p> <p><i>(select appropriate box)</i></p>
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Continued overleaf

11. Type of vessel or offshore installation

1. Coastal tanker / VLCC

2. Chemical tanker

3. General cargo vessel

4. Fishing vessel

5. Offshore support vessel

6. Pleasurecraft

7. Offshore oil installation

8. Wreck

9. Other

10. Not known

(select appropriate box)

12. Name of vessel or offshore installation and name of operating company

Vessel / installation name

Operating company

Nationality: UK

Foreign

Not known

(insert details and select appropriate box)

13. Type of pollution (tick appropriate box)

Mineral oil	Garbage	Other substance
Crude <input type="checkbox"/>	Galley wastes <input type="checkbox"/>	Vegetable oil <input type="checkbox"/>
Lubrication <input type="checkbox"/>	Fishing wastes <input type="checkbox"/>	Fish oil <input type="checkbox"/>
Hydraulic <input type="checkbox"/>	Cargo residues <input type="checkbox"/>	Synthetic mud <input type="checkbox"/>
Fuel <input type="checkbox"/>	Unidentified <input type="checkbox"/>	Unidentified <input type="checkbox"/>
Gas <input type="checkbox"/>	Other (specify) <input type="text"/>	Other (specify) <input type="text"/>
Diesel <input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Lumps <input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Unidentified <input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Other (specify) <input type="text"/>	<input type="text"/>	<input type="text"/>

(select appropriate option or add details)

14. Clean - up

Was a clean-up operation undertaken? Yes

No

(select appropriate option)

15. Legal proceedings

None initiated

Proceedings initiated but no further details known

Prosecution brought by: *(insert organisation below)*

Verdict: guilty

admonished

not guilty

Amount of fine: £

(select appropriate option or add value)

16. Additional information on incident

Please add any further relevant details describing the incident including causes, damage or detrimental effects and any rehabilitation measures undertaken. *(please insert details below)*

17. Report completed by: *(insert details)*

Name:

Address:

Position:

Telephone:

E-mail:

Date:

SOURCED MARINE POLLUTION

GUIDELINES TO AID COMPLETION OF THE SURVEY FORM

The revised survey form introduced in 2000 is very similar to the previous version. The new version, however, requests information on incidents involving a wider range of pollutants including mineral oil (**MARPOL I**), noxious liquid substances (**MARPOL II**) and garbage (**MARPOL V**).

Reports are requested for pollution incidents attributed only to discharges, or suspected discharges, from vessels and offshore installations operating within the UK Pollution Control Zone, harbour waters and national waters. Information is no longer requested for pollution incidents attributed to land-based sources such as industrial premises, sewers and outfalls.

The revised survey form is, therefore, shorter and easier to complete than the old version. Annual returns can be made either by **E-mail** or by post. If using **E-mail** please click on the boxes provided and insert other information in the spaces provided. The **E-Mail** and postal versions of the survey form can be downloaded from the ACOPS website at <http://www.acops.org> (under UK surveys on the main menu). A summary of the survey results for last year is also provided. Please complete a separate form for each incident. Thank you for your continued support in providing this important information.

Question	Guideline
1	Please insert name of reporting organisation. If you have nothing to report please tick the <i>no pollution to report box</i> , add respondent details (Question 17) and return the questionnaire to the address shown.
2	Identify the category of vessel/offshore sourced pollution from the options given (<i>tick appropriate box</i>). Note that in the case of garbage, an incident report is requested only in circumstances involving an illegal or accidental discharge from a specific vessel/offshore installation. An incident report is not required following observations of litter at sea or on beaches from an unknown source.
3	Insert dates of the beginning and end of the incident.
4	Please identify one or more zones affected by the pollution (<i>tick appropriate box</i>). The shoreward boundary of the open sea zone is defined as 3 nautical miles (5.6 km) from nearest land.
5	State how long the pollution remained in days or weeks (<i>insert values</i>).
6	Identify the location of the incident using geo-coordinates, national grid reference, place name or other suitable method (<i>insert details</i>).
7	If known, insert the estimated volume of pollution in litres, tonnes or cubic metres. Please state any other units of volume used.

8	Please indicate the overall distance in km, or state the names of settlements at the extremities, of the affected stretch of coastline.
9	Indicate whether a vessel or offshore installation was identified as a source of pollution or simply suspected on the basis of available evidence (<i>tick most appropriate box from the options given</i>). Note that incidents attributed to land-based sources of pollution are no longer included in this survey.
10	Please identify the most appropriate category which indicates the scale of pollution at sea or deposited on the shoreline (<i>tick appropriate boxes</i>).
11	If known, identify the type of vessel or offshore installation causing the pollution (<i>tick one of the boxes to select the appropriate response to the options given</i>).
12	Please state the name of the vessel/offshore installation, whether UK or foreign registered and operating company if known (<i>insert details in the spaces provided</i>).
13	Identify the category and type of pollution from the options given (<i>tick the appropriate box or insert relevant details in the spaces provided</i>).
14	Indicate whether a partial or complete clean-up operation was undertaken (<i>Circle appropriate option</i>).
15	Please add details of any legal proceedings initiated against alleged offenders including fines and penalties (<i>identify options as indicated and insert other information</i>). Any further information not available at the time of reporting will be requested in a separate questionnaire.
16	Add any further relevant details as indicated (<i>by inserting information in the space provided or on a separate sheet</i>). Please include any comments on how the questionnaire might be improved.
17	Please provide the background details requested including your E-mail address which can be used in future surveys.

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