



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control Regulations 2000

**Petroplus Tankstorage
Milford Haven Limited
Waterston
Milford Haven
Pembrokeshire
SA73 1DR**

Permit number

BK1341I U

Asiantaeth yr Amgylchedd Cymru
154 Ffordd Sant Helen, Abertawe, SA1 4DF

Environment Agency Wales
54 St Helens Road, Swansea, SA1 4DF

Permit BK1341 - 17 July 2001

Contents

Introductory note.....	iii
Permit	1
Conditions.....	2
1 The permitted installation	2
2 Operational Matters.....	5
3 Records.....	12
4 Reporting	13
5 Notifications	14
6 Emissions.....	16
7 Transfer to effluent treatment plant	21
8 Off site conditions.....	22
9 Improvement programme	23
10 Interpretation	26
11 Written agreement to changes	28
Schedule 1.....	29
Schedule 2.....	31
Schedule 3.....	33
END OF PERMIT.....	33
Reporting Forms.....	33 to 43

Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control Regulations 2000 (S.I.2000 No.1973) ("the PPC Regulations") to operate an installation carrying out one or more of the activities listed in Part 1 to Schedule 1 of those Regulations, to the extent authorised by the Permit.

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Brief description of the installation regulated by this permit

The main purpose of the activity/ies at the installation is:-

Other PPC Permits relating to this installation

None

Superseded Licenses/Consents/Authorisations relating to this installation

Holder	Reference Number	Date of Issue
Petroplus Tankstorage Milford Haven Limited	AF7860/BH4238	10 May 2000
Petroplus Tankstorage Milford Haven Limited	AF7860/BJ6623	13 November 2000
Petroplus Tankstorage Milford Haven Limited	AF7860/BK2046	21 December 2000
Petroplus Tankstorage Milford Haven Limited	AF7860/BK8150	28 March 2001

The crude oil storage and handling process is described in Schedule 1, section 1.2, part A(1) and paragraph h(i) of the PPC Regulations 2000. This is the main activity on site but there are two other directly associated activities, both described under Schedule 1, section 5.3, part A(1) and paragraph (a) of the PPC Regulations 2000.

The permit allows for the storage of the materials as detailed in the application for permit (namely Crude Oil, Light Cat. Naphtha (LCN), Heavy Cat. Naphtha (HCN), Light Virgin Naphtha (LVN), Alkylate, Platformate, Gasoline Blend, Isomate, Light Cycle Oil, Kerosene, Fuel Oil, Gas Oil (LGO, LCGO), Refinery Fuel Oils, Automotive Gas oil (AGO) and Vacuum Gas Oil (VGO)). No highly flammable gases will be stored.

The permit also includes the storage of a batch of Produced Waters originating from Liverpool Bay oil and gas exploration platforms together with a batch of Refinery Water as defined in the application. The permit limits the storage and treatment of these batches to those described in the application.

Treatment of wastewater on site will be accomplished through a biological treatment plant. There is also a soil remediation programme in place to treat contaminated installation soil in a bioremediation cell.

The maximum tank storage capacity is 9.5 million barrels (1.55 million m³). The storage is in two main areas:

- West Bund Tankage (mainly crude oil and VGO)
- East Bund Tankage (oil products and intermediates)

The associated units include:

- Ballast Water, Recovered Oil and Slops Tanks
- Jetty loading facilities
- Rail loading facilities
- Road loading facilities
- Aqueous effluent treatment (including biological treatment and DAF)

Releases from the process

There are three releases to water from the Permitted Process

- Surface water, ballast water and on-site treatment plant effluent (Release Point C - East Catch Basin)
- Surface water from the tank farm and the rail loading area (Release Point D - West Catch Basin)
- Site drainage (release Point E - North Catch Basin).

The only releases to air will be: -

- Fugitive releases from the tank storage operation.
- Aeration tank vent.
- Fugitive releases from the Dissolved Air Flotation unit.
- Fugitive releases from Produced Water storage tank operation.
- Sludge storage tank vent.
- Fugitive releases from the East Catch Basin.
- Fugitive releases from the bio-remediation cell.
- From each stack of the two package boilers.

Status Log

Detail	Date	Comment
Application BK1341	Received 19 December 2000	Information missing - submitted 28 December 2001
Application duly made	28 December 2001	
Schedule 4 Notice issued	Dated 14 March 2001	
Response to Schedule 4 Notice received	27 April 2001	Some information incorrect
	4 May 2001	Corrected information received
Request to extend date to response to Schedule 4 Notice from Operator	23 March 2001	Request dated
	18 April 2001	Request accepted
Request to extend determination date from Agency	18 April 2001	Request dated
	1 May 2001	Request accepted
	10 July 2001	Request dated
	11 July 2001	Request accepted
Permit BK1341	Determined 17 July 2001	-

End of introductory Note.

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1.

Confidentiality

The Permit requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Permit

Pollution Prevention and Control
Regulations 2000



**ENVIRONMENT
AGENCY**

Permit

Permit number

BK1341

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control Regulations 2000 (S.I. 2000 No. 1973), hereby authorises

Petroplus Tankstorage Milford Haven Limited ("the Operator")

whose Registered Office is

Adelaide House

London Bridge

London

EC4R 9HA

Company registration number **3601913**

to operate an Installation at

Waterston

Milford Haven

Pembrokeshire

SA73 1DR

to the extent authorised by and subject to the conditions of this Permit.

Signed

N Reynolds

Authorised to sign on behalf of the Environment Agency

Date

17 July 2001

Conditions

† The permitted installation

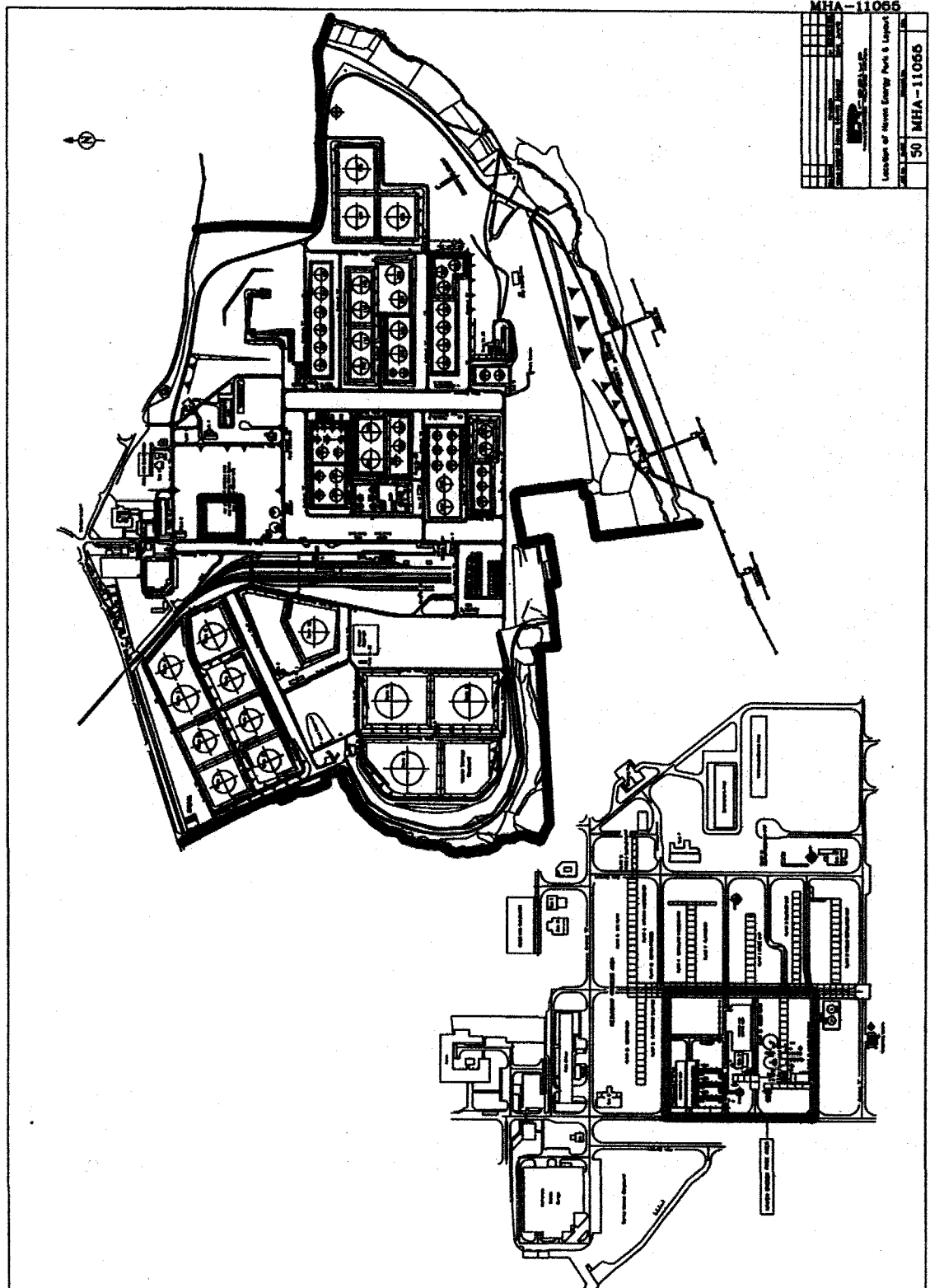
1.1.1 The Operator is authorised to carry out the activities and/or the associated activities specified in Table 1.1.1.

Table 1.1.1

Activity under Schedule 1 of the Regulations/ Associated Activity	Description of specified activity	Limits of specified activity
The loading, unloading or other handling of, the storage of, or the physical, chemical or thermal treatment of crude oil	Tank storage and handling of crude oil	Receipt of, storage of and the dispatch of crude oil
The disposal of hazardous waste in a facility with a capacity of more than 10 tonnes per day	Biological wastewater treatment plant treating on site and off-site derived wastewater	Treatment of wastewater as defined in the application or otherwise by agreement in writing with the Environment Agency
Storage and treatment of controlled wastes (disposal classifications D8, D9, D15 and recovery classifications R5 and R13 under Waste Framework Directive 75/442/EEC as amended) (Note: R5 in Directive 75/442/EEC has the same meaning as R4 referred to in response 61 of the Schedule 4 Notice received on 4 May 01)	Ex-situ biological and physico-chemical treatment of waste including storage pending disposal or recovery	Permitted waste types: Contaminated soils (as currently defined under Categories 24.01.00 of the UK Waste Classification Scheme) Inert Wastes (as currently defined under Categories 21.01.00 of the UK Waste Classification Scheme)

1.1.2 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the area shown edged in green on the plan overleaf. The area shown edged in red is excluded from the installation.

1.1.3 There are no pre-operation conditions



2

Operational Matters

2.1 Management techniques and control

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be managed and controlled as described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency.

Table 2.1.1: Management and control

Description	Parts	Date Received
Application	The responses to question 2.1 given in section B2.1 and Appendix B2.1 of the application.	19 Dec 00
Response to Schedule 4 Part 1 Notice Response	Response to questions 8, 9, 10 and 11	04 May 01

- 2.1.2 All plant, equipment and technical means used in operating the Permitted Installation shall be maintained in good operating condition.
- 2.1.3 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.1.4 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.
- 2.1.5 All staff shall be fully conversant with those aspects of the Permit conditions, which are relevant to their duties and shall be provided with appropriate training and written operating instructions to enable them to carry out their duties.
- 2.1.6 Where Regulation 4 of the Regulations applies to an activity/associated activity carried on at the Permitted Installation,
- a any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Agency in writing within 5 working days of the change in management. Technically competent management and technical competence shall be as prescribed under Section 74 of the Environmental Protection Act 1990.
 - b in the event the Operator and/or any relevant person being convicted of any relevant offence and which is in addition to any already notified to the Agency, then full details shall be provided to the Agency within 14 days of conviction, whether or not the conviction is subsequently appealed. Such details shall include, in respect of each relevant person (as defined in section 74(7) of the Environmental Protection Act 1990 or any subsequent amendments to that section), the nature of the offence, the place and date of conviction, any sentence, and any fine or other penalty imposed; and

- c In the event that the Operator and/or any relevant person lodges an appeal against any such conviction, the permit holder shall notify the Agency of this within 14 days of the lodging. The Operator shall notify the Agency of the results of that appeal, within 14 days of the appeal being decided; and
- d The specified waste management activities authorised by this Permit shall not continue after 31 December 2001 unless the Operator has secured adequate financial provision to the satisfaction of and in favour of the Environment Agency in accordance with the Operator's letter to the Agency dated 16 July 2001 (reference number L-160701-HM09). This is conditional upon a standard legal agreement under the PPC Regulations being available from the Environment Agency.
- e The Operator throughout the subsistence of this Permit shall maintain such financial provision, described in condition 2.1.6d, and the Operator shall produce evidence of such provision whenever required by the Agency.

2.1.7 The letter dated 16 July 2001 (reference number L-160701-HM09) stipulated a maximum capacity of produced and refinery water from offsite sources of 205,085 m³. This maximum capacity shall not be exceeded as it forms the basis of the financial provision arrangement.

2.1.8 The specified waste management activities authorised by this Permit shall not continue after 31 December 2001 unless the Operator has provided further evidence to the satisfaction of the Environment Agency that the person(s) nominated as technically competent to manage the specified waste management activities have the appropriate level of certificate of technical competence.

2.2 **Raw materials (including water)**

2.2.1 The Operator shall, subject to the conditions of this Permit, use raw materials (including water) as described in the documentation specified in Table 2.2.1, or as otherwise agreed in writing by the Agency.

Table 2.2.1: Raw materials (including water)

Description	Parts	Date Received
Application	The response to question 2.2 given in section B2.2 of the application {excluding section B2}	19 Dec 00
Response to Schedule 4 Part 1 Notice Response	Response to questions 12, 13, 14, 15, 16, 17, 18, 19 and 20	04 May 01

2.3 **Operating Techniques**

2.3.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.3.1, or as otherwise agreed in writing by the Agency.

Table 2.3.1: Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.3 given in section B2.3 of the application (excluding section 2.3.1 subsection B2, section 2.3.2 subsection B2, section 2.3.3 subsection B2, section 2.3.4 subsection B2 and section 2.3.5 subsection B2)	19 Dec 00
Response to Schedule 4 Part 1 Notice Response	Response to questions 21, 22, 23, 24, 25, 26, 28, 29 and 53	04 May 01

- 2.3.2 Fuel used in the package boilers operated at the installation shall have a sulphur content of less than 0.2% by weight.
- 2.3.3 A record shall be maintained and reported monthly to the Agency, in accordance with the requirements specified in Schedule 2 and 3, of the quantity of Produced and Refinery Waters stored in the installation.
- 2.3.4 No contaminated groundwater from the soil remediation programme shall be treated or discharged to controlled waters unless agreed in writing by the Environment Agency. The agreement shall be subject to the assessment of the environmental impact required under reference 9.11, section 9.1.1.

2.4 Groundwater protection

- 2.4.1 The Permitted Installation shall, subject to the conditions of this Permit, be controlled as described in the documentation specified in Table 2.4.1, or as otherwise agreed in writing by the Agency.

Table 2.4.1: Groundwater protection

Description	Parts	Date Received
Application	The response to questions 2.4 given in page B2.4/1 of the application	19 Dec 00

2.5 Waste handling and storage

- 2.5.1 The Operator shall, subject to the conditions of this Permit, handle and store waste as described in the documentation specified in Table 2.5.1, or as otherwise agreed in writing by the Agency.

Table 2.5.1: Waste handling and storage

Description	Parts	Date Received
Application	The response to questions 2.5, 7.1 and page B3/6 of the application form given in sections B2.5, B7 and B3, respectively, of the main application document.	19 Dec 00
Response to Schedule 4 Information notice	Response to questions 61, 63, 64, 65, 68, 69, 70, 71, 72, 73, 74, 77, 79, 86 and 88 of Schedule 4 Notice.	04 May 01

2.5.2

Waste materials specified in Table 2.5.2 shall only be stored on the site in the location and manner specified in that Table.

Table 2.5.2: Waste stored on site

Description of Waste	Location of Storage on Site	Manner of Storage	Storage Conditions
Material for ex-situ biological and/or physico-chemical treatment	Only within the designated area outlined in red on plan E3600. A0/001.		Only upon impermeable pavement served with a sealed drainage system. The maximum storage capacity of waste stored within this designated area at any one time shall not exceed 2500m ³
Material for off site disposal	The Operator shall ensure all waste storage areas are clearly marked with appropriate signage.	All waste storage containers shall be constructed and maintained to a standard that is fit for purpose to prevent the egress of contaminated water. All waste storage containers shall be clearly and unambiguously labelled regarding their contents.	Only upon areas of hard standing or impermeable pavement. Waste that is likely to become airborne, including paper and packaging, shall be stored in a building or within an enclosed, netted or sheeted waste storage containers.

2.6

Waste recovery and disposal

2.6.1

The Operator shall, subject to the conditions of this Permit, recover and dispose of waste as described in the documentation specified in Table 2.6.1, or as otherwise agreed in writing by the Agency.

Table 2.6.1: Waste recovery and disposal

Description	Parts	Date Received
Application	The response to question 2.6 and 7.1 of the application form given in sections B2.6 and B7, respectively of the main application document.	19 Dec 00
Response to Schedule 4 Part 1 Notice Response	Response to questions 61, 63, 64, 65, 68, 69, 70, 71, 72, 73, 74, 77, 79, 86 and 88 of Schedule 4 Notice.	04 May 01

2.6.2 No sludge may be added to wastes, that are pending or undergoing treatment, within the bio treatment cell unless agreed in writing with the Agency.

2.7 **Energy Efficiency**

2.7.1 The Operator shall, subject to the conditions of this Permit, use energy as described in the documentation specified in Table 2.7.1, or as otherwise agreed in writing by the Agency.

Table 2.7 1: Energy efficiency

Description	Parts	Date Received
Application	The response to question 2.7 given in sections 2.7.2 and 2.7.3 of the application	19 Dec 00
Response to Schedule 4 Part1 Notice Response	Response to questions 33 and 34	04 May 01

2.7.2 The operator shall produce a report annually on the energy consumption of the installation. This report shall be sent to the Agency and shall be incorporated in any programme brought about by the requirement reference 9.13 in table 9.1.1.

2.7.3 The operator shall have an energy management plan, which shall be updated annually. This condition shall be effective following completion of reference 9.13 in table 9.1.1.

2.8 **Accident prevention and control**

2.8.1 The Operator shall, subject to the conditions of this Permit, prevent and limit the consequences of accidents as described in the documentation specified in Table 2.8.1, or as otherwise agreed in writing by the Agency.

Table 2.8.1 : Accident prevention and control

Description	Parts	Date Received
Application	The response to question 2.8 given in section B2.8 of the application	19 Dec 00
Response to Schedule 4 Part 1 Notice Response	Response to questions 35, 36, 37, 38, 39 and Appendix C5	04 May 01

2.9 Noise and vibration

2.9.1 The Operator shall, subject to the conditions of this Permit, control noise and vibration as described in the documentation specified in Table 2.9.1, or as otherwise agreed in writing by the Agency.

Table 2.9.1: Noise and vibration

Description	Parts	Date Received
Application	The response to question 2.9 given in section 2.9.2 of the application	19 Dec 00
Response to Schedule 4 Part1 Notice Response	Response to questions 40 and 41	04 May 01

2.10 Monitoring

2.10.1 The Operator shall, subject to the conditions of this Permit, carry out, evaluate and assess monitoring as described in the documentation specified in Table 2.10.1, or as otherwise agreed in writing by the Agency.

Table 2.10.1: Monitoring

Description	Parts	Date Received
Application	The response to question 2.10 and 7.1 of the application form given in sections B2.10 and B7, respectively, of the main application document.	19 Dec 00
Response to Schedule 4 Part1 Notice Response	Response to questions 42, 43, 44, 45, 46, 47, 76, 78, 80, 82, 83 and 85.	04 May 01

2.10.2 Where requested in writing by the Agency, the Operator shall provide at least 14 days advance notice of undertaking monitoring/spot sampling.

2.10.3 There shall be provided:

- a safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2, unless otherwise specified in that Schedule and
- b safe means of access to other sampling/monitoring points when required by the Agency.

2.11 Decommissioning

- 2.11.1 The Operator shall, subject to the conditions of this Permit, make provision for decommissioning the installation as described in the documentation specified in Table 2.11.1, or as otherwise agreed in writing by the Agency.

Table 2.11.1: Decommissioning

Description	Parts	Date Received
Application	The response to question 2.11 given in section B2.11 of the application	19 Dec 00

2.12 Multi-operator installations

- 2.12.1 This is not a multi-operator installation

3 Records

- 3.1.1 A record (a "Specified Record") shall be made of:-
- a** any malfunction, breakdown or failure of plant, equipment or techniques (including down time and any short term and long term remedial measures) that may have, has had or might have had an effect on the environmental performance of the Permitted Installation. These records shall be kept in a log maintained for that purpose;
 - b** all monitoring and sampling taken or carried out and any assessment or evaluation made on the basis of such data;
- 3.1.2 There shall be made available for inspection by the Agency at any reasonable time:
- a** Specified Records;
 - b** any other records made by the Operator in relation to the operation of the Permitted Installation ("Other Records")
- 3.1.3 A copy of any Specified or Other Records shall be supplied to the Agency on demand and without charge
- 3.1.4 Specified Records and Other Records shall:-
- a** be legible;
 - b** be made as soon as reasonably practicable;
 - c** indicate any amendments which have been made and shall include the original record wherever possible; and
- 3.1.5 Specified Records and Other Records shall be retained for a minimum period of 4 years from the date when the records were made.
- 3.1.6 For all waste received at or produced from the Permitted Installation, the Operator shall record (and shall retain such records for a minimum of 4 years)
- a** its composition, or as appropriate, description;
 - b** the best estimate of the quantity produced;
 - c** its disposal routes; and
 - d** the best estimate of the quantity sent for recovery.
- 3.1.7 A record shall be made at the Permitted Installation of any complaints concerning the Installation's effect or alleged effect on the environment. The record shall give the date of complaint, time of complaint, a summary of any investigation and the results of such investigation. Such records shall be made in a log kept for this purpose.

4

Reporting

- 4.1.1 All reports and notifications required by this Permit, or by Regulation 16 of the PPC Regulations, shall be sent to the Environment Agency at the address notified in writing to the Operator by the Agency .
- 4.1.2 The Operator shall report the parameters listed in Table S2 to Schedule 2 as follows:
- a** in respects of the emission points specified;
 - b** for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - c** giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - d** sending the report to the Agency within 28 days of the end of the reporting period.
- 4.1.3 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.

5

Notifications

- 5.1.1 The Operator shall notify the Agency **without delay** of:-
- a** the detection of an emission of any substance which exceeds any limit or criteria in this Permit specified in relation to the substance;
 - b** the detection of any fugitive emission which has caused or may cause pollution unless the quantity emitted is so trivial that it would be incapable of causing pollution;
 - c** the detection of any malfunction, breakdown or failure of plant or techniques which has caused or may have the potential to cause pollution; and
 - d** any accident which has caused or may have the potential to cause pollution.
- 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1 in accordance with Schedule 1 to this Permit, by sending the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification. The Operator shall send the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;
- 5.1.3 The Operator shall give written notification as soon as practicable, of any of the following
- a** permanent cessation of the operation of any part of or all of the Permitted Installation;
 - b** cessation of the operation of any part of or all of the Permitted Installation for a period, likely to exceed 1 year; and
 - c** resumption of the operation of any part of or all of the Permitted Installation after a cessation notified under 5.1.3(b).
- 5.1.4 The Operator shall notify the following matters to the Agency, in writing, within 14 days of their occurrence:
- a** *where the Operator is a registered company:*
 - i** any change in the Operator's trading name, registered name or registered office address;
 - ii** a change to any particulars of the Operator's ultimate holding company (including details of an ultimate holding company where the Operator has become a subsidiary);
 - iii** any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.
- OR
- b** *where the Operator is a corporate body other than a registered company:*
 - i** any change in the Operator's name or address;
 - ii** any steps taken with a view to the dissolution of the Operator.

OR

c *In any other case:*

- i** the death of any of the named Operators (where the Operator consists of more than one named individual);
- ii** any change in the Operator's name(s) or address(es);
- iii** any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership.

6

Emissions

6.1

Emissions into air

6.1.1

Emissions to air from the emission point(s) specified in Table 6.1.1 shall only arise from the source(s) specified in that Table.

Table 6.1.1: Emission points into air

Emission point reference/description	Source	Location of emission point
A1	Fugitive releases from storage operation	Point A1 on site plan
A2	Aeration Tank Vent	Point A2 on site plan
A3	Dissolved Air Flotation Unit	Point A3 on site plan
A4	Sludge Storage Tank Vent	Point A4 on site plan
A5	East Catch Basin	Point A5 on site plan
A6	Package Boiler No.1 Stack	Point A6 on site plan
A7	Package Boiler No.2 Stack	Point A7 on site plan
A8	Bio-remediation Cell	Point A8 on site plan

6.1.2

There are no limits proposed for emissions into air from the emission points set out in Table 6.1.1.

6.1.3

The Operator shall implement and maintain an odour management plan. The details of the plan and the specified records kept shall be in accordance with condition 3 of this permit.

6.2 Emissions to land

6.2.1 There shall be no emission to land from the Permitted Installation.

6.2.2 The Operator shall notify the Agency, as soon as practicable, of any information concerning the state of the Site which affects or updates that provided to the Agency as part of the Site Report submitted with the application for this Permit.

6.3

Emissions to water [other than emissions to sewer]

6.3.1

Emissions to water from the emission point(s) specified in Table 6.3.1 shall only arise from the source(s) specified in that Table

Table 6.3.1: Emission points into water

Emission Point Reference.	Source	Receiving Water
C	East Catch Basin	Milford Haven Waterway
D	West Catch Basin	Milford Haven Waterway
E	North Catch Basin	Milford Haven Waterway

6.3.2

Limits for the emissions to water for the parameter(s) and emission point(s) set out in Table 6.3.2 shall not be exceeded.

6.3.3

The Operator shall carry out monitoring of the parameters listed in Table 6.3.2, from the emission points and at least at the frequencies specified in that Table.

Table 6.3.2: Emission limits into water

Parameter	Emission Point C	Emission Point D	Emission Point E	Monitoring Frequency
Maximum daily flow (m ³ /day)	10000	3500	-	Continuous (C) Daily (D) Three times a week (E)
Suspended solids (mg/l) ^(a)	70	35	-	Daily (C) Twice a week (D)
Total BOD 5 (ATU) (mg/l)	50	50	-	Twice a week (C) Once a week (D)
Ammoniacal nitrogen (mg/l)	5	0.4	-	Daily (C) Twice a week (D)
Maximum temperature (C)	30	27	-	Daily (C) Twice a week (D)
pH maximum	9.0	8.5	9.0	Daily (C) Twice a week (D) Twice a week (E)
pH minimum	6.0	6.0	6.0	Daily (C) Twice a week (D) Twice a week (E)
Total Oil (mg/l)	30	5	10	Daily (C) Twice a week (D) Twice a week (E)
Total Organic Carbon (TOC) (mg/l)	50	-	-	Daily (C)
Formaldehyde (mg/l)	0.6	-	-	Daily (C)
Methanol (mg/l)	20	-	-	Daily (C)

6.4 Emissions to sewer

6.4.1 No emission shall be made into any sewer from the Permitted Installation

6.5 Emissions of heat

6.5.1 There are no conditions proposed for emissions of heat.

6.6 Emissions of noise and vibration

6.6.1 There are no conditions proposed for emissions of noise and vibration.

Table 6.3.2: Emission limits into water

Parameter	Emission Point C	Emission Point D	Emission Point E	Monitoring Frequency
Ethanol (mg/l)	5	-	-	Daily (C)
Propanol (mg/l)	5	-	-	Daily (C)
Sulphide (as S) (mg/l)	1	-	-	Daily (C)
Total phenols (mg/l)	7.5	-	-	Daily (C)
Total cyanide (mg/l)	0.25	-	-	Twice a week (C)
Chloride (g/l)	11	-	-	Twice a week (C)
Cadmium (µg/l)	14	-	-	Daily (C) Once a week (D)
Cadmium (kg/month)	0.46	-	-	Calculated
Mercury (µg/l)	2	-	-	Daily (C) Once a week (D)
Mercury (kg/month)	0.06	-	-	Calculated
Lead (µg/l)	120	50	-	Twice a week (C) Twice a week (D)
Copper (µg/l)	50	40	-	Twice a week (C) Twice a week (D)
Iron (µg/l)	1400	1400	-	Twice a week (C) Twice a week (D)
Nickel (µg/l)	150	10	-	Twice a week (C) Twice a week (D)
Zinc (µg/l)	150	40	-	Twice a week (C) Twice a week (D)
Chromium (µg/l)	50	-	-	Twice a week (C)

(a) Suspended solids are to be measured following drying at 105°C.

6.3.4 There shall be no emission into water from the Permitted Installation of any substance prescribed for water for which no limit is specified in Table 6.3.2 except in a concentration which is no greater than the background concentration.

6.3.5 Where an annual mass limit for a substance is stated in Table 6.3.3, the aggregate emissions of such substance from the Permitted Installation into water from the emission point(s) specified in Table 6.3.1 shall not exceed that limit in any year.

Table 6.3.3: Annual mass emission limits

Substance	Limit – kg
Cadmium	5.5
Mercury	0.7

7 Transfer to effluent treatment plant

- 7.1.1 Transfers to effluent treatment plant(s) shall occur only from the point(s) specified in Table 7.1.1 and transfers from those points shall arise only from the source(s) and shall be released only to the treatment plant(s) specified in that Table.

Table 7.1.1 Transfer point(s) to effluent treatment plant(s)

Transfer point description / identifier	Source	Destination
E1	Produced Waters and Refinery Waters storage	Mixer prior to Effluent Treatment Plant
E2	Water from the West Catch Basin	Raw Water Tank prior to the Effluent Treatment Plant
E3	Water from the outlet of the API separator	Raw Water Tank prior to the Effluent Treatment Plant
E4	Raw Water Tank	Mixer prior to Effluent Treatment Plant
E5	Mixer prior to Effluent Treatment Plant	Aeration Tank
E6	DAF unit	East Catch Basin

- 7.1.2 There are no limits proposed for transfers to effluent treatment plant.

- 7.1.3 The Operator shall carry out monitoring of the parameters listed in Table 7.1.2, from the stream points and at least at the frequencies specified in that Table.

Table 7.1.2: Effluent Treatment Plant Monitoring

Stream	Parameter	Monitoring Frequency
E1	Flow	Continuous
E4	Flow	Continuous
E5	Chloride, Temperature	Daily
	Total Oil, Formaldehyde & TOC	Twice a week*
E6	Flow	Daily
	Total Oil, Formaldehyde & TOC	Twice a week*

* To enable treatment performance evaluation, samples from E5 shall be representative of a complete day, twice per week on the same days as sampling from E6, to allow matching of data from the composite sampler on E6.

8 Off site conditions

8.1.1 There are no off site conditions.

9 Improvement programme

- 9.1.1 The Operator shall complete the requirements specified in Table 9.1.1 by the date specified in that Table, and shall send written notification of the date of completion of each requirement to the Agency, at the Reporting Address, within 14 days of the completion of each such requirement.

Table 9.1.1: Improvement programme requirements

Reference	Requirement	Date
9.1	The Operator shall, within 36 months of the issue of this Permit, submit a report on potential environmental improvements to the Permitted Installation. For each of the subject areas identified in Section 2 of the appropriate technical guidance, the report shall assess the costs and benefits of alternative techniques that may provide environmental improvement. This shall include, but not be limited to, those techniques listed in guidance. The methodologies used should be based on those given in Agency guidance note E1 (or any update of that guidance note) and should justify, against the BAT criteria, where potential improvements are not planned to be implemented. As part of their management system, the Operator shall submit an updated report every 36 months	31 July 2004
9.2	A report shall be sent to the Agency on establishing an Environmental Management System having regard to section 2.1 of the relevant IPPC Sectoral or other Technical Guidance. The report shall include any proposals to implement such a programme.	30 June 2002
9.3	Fugitive emissions shall be reviewed on an annual basis and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them.	31 January 2002 and annually thereafter
9.4	The Operator shall continue the acute and chronic monitoring programmes agreed with the Environment Agency and the Countryside Council for Wales (i.e. under improvement condition 8.12 of the IPC variation, BH4238). The programmes shall be extended to include assessment of the impact of treated Refinery Water. The Food Standards Agency has asked for microbiological characterisation of the effluent. The Operator shall propose a programme of activities with time scales to complete the above assessments. The proposals and programme shall be submitted to the Environment Agency for agreement.	30 September 2001
9.5	The Operator shall complete the monitoring programme agreed in reference 9.4 above and provide update reports to the Environment Agency every six months.	Update reports every six months
9.6	The Operator shall complete the noise assessment monitoring programme as defined in question 41 of the Schedule 4 Notice Requiring Further Information issued on 14 March 2001. The results together with conclusions and recommendations will be submitted in writing to the Environment Agency.	31 October 2001

Table 9.1.1: Improvement programme requirements

Reference	Requirement	Date
9.7	The Operator shall propose a programme, indicating time scales, to review the integrity of the storage tank bund areas in the installation. The integrity shall be of a sufficient level to ensure that there is no discharge, direct or indirect, of list I substances (as defined in the Dangerous Substances Directive 76/464/EEC) to groundwater. The integrity shall also be appropriate to ensure that list II substances are restricted from causing pollution of groundwater. The proposals shall include how groundwater quality will be surveyed to ensure that there is no discharge of list I and II substances. The proposals and programme shall be submitted in writing to the Environment Agency and shall include update reports at six month intervals.	31 October 2001
9.8	The Operator shall complete a review of the TOC removal following implementation of biological treatment of Refinery Water. The review shall include an assessment of whether BAT is being applied to reduce the emissions from release point C. The review, including conclusions and recommendations shall be submitted in writing to the Environment Agency.	31 October 2001
9.9	The Operator shall complete an assessment of the actual emissions from the package boilers to ensure that the assumptions made in the application are valid (as proposed in the response to question 46 of the Schedule 4 Notice issued on 14 March 2001). The assessment shall be submitted in writing to the Environment Agency. Alternatively, if natural gas is used as a fuel then the assessment can be avoided upon formal notification of the change of fuel to the Environment Agency.	30 November 2001
9.10	The Operator shall implement the monitoring programme proposed in their response to question 29 of the Schedule 4 Notice (issued on 14 March 2001) to enable an environmental impact assessment of the releases to air from the bio-remediation cell operations (including releases from the temporary storage adjacent to the cell). The report detailing the results, conclusions and recommendations shall be submitted in writing to the Environment Agency.	31 December 2001
9.11	The Operator shall complete environmental impact assessments of the contaminated groundwater from each agreed soil remediation area, and propose pre-treatment options, if necessary, prior to final treatment in the wastewater plant. The assessment shall also identify the composition of the water and anticipated flow-rates, and shall review whether buffer storage prior to treatment in the biological plant is justified. The report for each soil remediation area shall be submitted to the Environment Agency for agreement. (The Operator is not authorised to process the contaminated groundwater through the effluent treatment plant until the assessment has been completed and a subsequent variation notice is served).	Submit each report at least 2 months prior to proposed treatment date
9.12	The Operator shall develop and implement a waste management and minimisation plan (as defined in the General Sector Guidance Note IPPC S0.01). The plan shall be submitted in writing to the Environment Agency	30 June 2002

Table 9.1.1: Improvement programme requirements

Reference	Requirement	Date
9.13	The Operator shall develop and implement an energy management and efficiency improvement plan. The plan shall be submitted in writing to the Environment Agency.	30 June 2002
9.14	The Operator shall develop and implement an accident management system with associated procedures taking into consideration requirements set out in the General Sector Guidance Note IPPC S0.01. The system will be submitted in writing to the Environment Agency.	30 June 2002
9.15	The Operator shall implement a monitoring programme around the on-site effluent treatment plant, which will characterise the variability of the influent and effluent streams, and will enable removal efficiencies for TOC, Oil, Ethanol, Propanol and Heavy Metals to be determined under a range of seasonal conditions. A report detailing the results of the monitoring programme together with calculated efficiencies, conclusions and recommendations shall be submitted to the Environment Agency.	30 June 2002
9.16	The Operator shall complete a review of the current monitoring equipment, sample methods and analysis standards against MCERTS (as outlined in section 2.10.3 of the application). The review shall take account of the requirements of the General Sector Guidance Note IPPC S0.01 A report detailing the review, conclusions and recommendations shall be submitted in writing to the Environment Agency.	30 June 2002
9.17	The Operator shall review and update the installation water usage balance and develop and implement a water usage reduction plan. The water usage balance and reduction plan shall be submitted in writing to the Environment Agency.	31 December 2002
9.18	The Operator shall complete a plan for the safe de-commissioning of the installation taking into the account the requirements specified in the General Sector Guidance Note IPPC S0.01. The plan shall be submitted in writing to the Environment Agency.	30 June 2004

Interpretation

10.1.1 In this Permit, the following expressions shall have the following meanings:

"Authorised Officer"

means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, powers specified in Section 108(4) of that Act.

"Background concentration"

means the same as "background quantity" as defined in paragraph 11 to Part 2 to Schedule 1 of the PPC Regulations.

"Fugitive emission"

means an emission from any point other than those specified in the Tables in part 6 of this Permit.

"LAeq"

means the A-weighted equivalent continuous equal energy level (dBA)

"Monitoring"

includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"Permitted Installation"

means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"PPC Regulations"

means the Pollution Prevention and Control Regulations 2000 (S.I. 2000 No. 1973) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit.

"Produced Waters"

means the batch of water from the Liverpool Bay Oil and Gas platforms.

"Staff"

includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"substances prescribed for water"

means those substances mentioned in paragraph 13 of Part 2 of Schedule 1 to the PPC Regulations.

"TOC"

means Total Organic Carbon.

"Total BOD 5 (ATU)"

means 5 day Biochemical Oxygen Demand determined at 20 degrees Celsius after suppression of nitrification using allyl thiourea, and is expressed in milligrams of oxygen per litre of sample.

Returns should contain

Part A

- ☐ Name of Operator.
- ☐ Permit Number
- ☐ Location of Installation.
- ☐ Date information provided.
- ☐ Time, date and location of the emission.
- ☐ Identity and details of the substance[s] emitted to include:-
 - ☐ Best estimate of the quantity or the rate of emission, and the time during which the emission took place.
 - ☐ Environmental medium into which the emission took place.
 - ☐ Measures taken, or intended to be taken, to stop the emission.

Part B

- ☐ Any more accurate information on the matters notified under Part A.
- ☐ Measures taken, or intended to be taken, to prevent a recurrence of the incident.
- ☐ Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission.
- ☐ The dates of any Part A notifications within in the previous 24 months.

- ☐ Name ☐ Post.....

- ☐ Signature ☐ Date
- ☐ Statement that signatory is authorised to sign on behalf of [OPERATOR NAME]

Schedule 1

Confirmation of condition 5.1.1 notifications, in accordance with condition 5.1.2

This Schedule outlines the information that the Operator must provide to the Agency to satisfy condition 5.1.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements must be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

11

Written agreement to changes

11.1.1

When the qualification "or as otherwise agreed in writing" is used in a condition of this Permit, the Operator shall seek such agreement in the following manner:

- a** the Operator shall give the Agency written notice of the details of the proposed change, indicating the relevant part(s) of this Permit; and
- b** such notice shall include an assessment of the possible effects of the proposed change (including waste production) on risks to the environment from the Permitted Installation.

11.1.2

Any change proposed according to condition 10.1.1 and agreed in writing by the Agency, shall not be implemented until the Operator has given the Agency prior written notice of the implementation date for the change. As from that date, the Operator shall operate the Permitted Installation in accordance with that change, and any relevant documentation referred to in this Permit shall be deemed to be amended.

"UK Waste Classification Scheme"

the UK Waste Classification Scheme (Draft 16) or its subsequent replacement;

"year"

means year ending 31 December.

10.1.2 Where a minimum limit is set for any emission parameter, references to exceeding the limit shall mean that the parameter shall not be less than that limit.

10.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means;

- a in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- b in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 2

Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 of this Permit, are listed below.

Table S2: Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins	Reporting Form
Chlorinated hydrocarbons (µg/l)	E	Two-monthly	17/07/01	W6
		Annual	1/01/01	W9
Suspended solids (mg/l)	C, D	Monthly	17/07/01	W1, W4
		Annual	1/01/01	W9
Total BOD 5 (ATU) (mg/l)	C, D	Monthly	17/07/01	W1, W4
		Annual	1/01/01	W9
Ammoniacal nitrogen (mg/l)	C, D	Monthly	17/07/01	W1, W4
		Annual	1/01/01	W9
Maximum temperature (°C)	C, D	Monthly	17/07/01	W1, W4
pH	C, D, E	Monthly	17/07/01	W1, W4, W6
Total oil (mg/l)	C, D, E	Monthly	17/07/01	W1, W4, W6
		Annual	1/01/01	W9
	E5, E6	Monthly	17/07/01	W7, W8
Total Organic Carbon (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
	E5, E6	Monthly	17/07/01	W7, W8
Formaldehyde (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
	E5, E6	Monthly	17/07/01	W7, W8
Methanol (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
Ethanol (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
Propanol (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
Sulphide (as S) (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
Total phenols (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
Total cyanide (mg/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9

Table S2: Reporting of monitoring data

Parameter	Emission point	Reporting period	Period begins	Reporting Form
Chloride (g/l)	C	Monthly	17/07/01	W2
		Annual	1/01/01	W9
	E5	Monthly	17/07/01	W7
Cadmium (µg/l)	C	Monthly	17/07/01	W3
	C, D	Annual	1/01/01	W9
Cadmium (g/month)	C	Monthly	17/07/01	W3
Mercury (µg/l)	C	Monthly	17/07/01	W3
	C, D	Annual	1/01/01	W9
Mercury (g/month)	C	Monthly	17/07/01	W3
Lead (µg/l)	C, D	Monthly	17/07/01	W3, W5
		Annual	1/01/01	W9
Copper (µg/l)	C, D	Monthly	17/07/01	W3, W5
		Annual	1/01/01	W9
Iron (µg/l)	C, D	Monthly	17/07/01	W3, W5
		Annual	1/01/01	W9
Nickel (µg/l)	C, D	Monthly	17/07/01	W3, W5
		Annual	1/01/01	W9
Zinc (µg/l)	C, D	Monthly	17/07/01	W3, W5
		Annual	1/01/01	W9
Chromium (µg/l)	C	Monthly	17/07/01	W3
	C, D	Annual	1/01/01	W9
Flow (m ³ /day)	C, D, E	Monthly	17/07/01	W1, W4, W6
	E1, E4, E6	Monthly	17/07/01	W7, W8
Produced and Refinery Water Inventory (m ³)	Storage	Monthly	17/07/01	W8

Schedule 3

Forms to be used

Unless otherwise agreed in writing between Agency and the Operator, the following Agency forms are to be used for reports submitted to Agency.

Table S3: Reporting Forms		
Media/parameter	Form Number	Date of Form
Water	W1	17/07/01
Water	W2	17/07/01
Water	W3	17/07/01
Water	W4	17/07/01
Water	W5	17/07/01
Water	W6	17/07/01
Water	W7	17/07/01
Water	W8	17/07/01
Water	W9	17/07/01
Waste Return	R1	17/07/01

END OF PERMIT

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341 Release Point: C

	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (mg/l)	pH	Oil (mg/l)
Limit	10,000	70	50	5	30	max 9.0 min 6.0	30
Date							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
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19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Maximum							
Minimum							
Flow-weighted average							

Signed on behalf of the Operator by

Date.....

Form S3/W1

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Release Point: C

	TOC (mg/l)	Formalde -hyde (mg/l)	Methanol (mg/l)	Ethanol (mg/l)	Propanol (mg/l)	Sulphide (mg/l)	Total Phenols (mg/l)	Cyanide (mg/l)	Chloride (mg/l)
Limit	50	0.6	20	5	5	1	7.5	0.25	11
Date									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Max									
Min									
Flow-weighted average									

Signed on behalf of the Operator by

Date.....

Form S3/W2

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Release Point: C

	Cadmium		Mercury		Lead	Copper	Iron	Nickel	Zinc	Chromium
	(µg/l)	(g/day)	(µg/l)	(g/day)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Limit	14	0.46	2	0.06	120	50	1400	150	150	50
Date		(kg/mth)		(kg/mth)						
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Maximum										
Minimum										
Total										
Flow-weighted average										

Signed on behalf of the Operator by

Date.....

Form S3/W3

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Release Point: D

	Flow (m ³ /day)	Suspended Solids (mg/l)	BOD (mg/l)	Ammoniacal Nitrogen (mg/l)	Temperature (°C)	pH	Oil (mg/l)
Limit	3500	35	50	0.4	27	Max 8.5 min 6.0	5
Date							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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16							
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20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Maximum							
Minimum							
Flow-weighted average							

Signed on behalf of the Operator by

Date.....

Form S3/W4

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Release Point: D

	Lead (µg/l)	Copper (µg/l)	Iron (µg/l)	Nickel (µg/l)	Zinc (µg/l)
Limit	50	40	1400	10	40
Date					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Maximum					
Minimum					
Flow-weighted average					

Signed on behalf of the Operator by

Date.....

Form S3/W5

RELEASES TO WATER

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Release Point: E

[illegible]

*Chlorinated hydrocarbons will be sampled every two months

Signed on behalf of the Operator by

Date.....

Form S3/W6

RELEASES TO WATER
RELEASES TO ON-SITE EFFLUENT TREATMENT PLANT
RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

	Flow (m ³ /day)	Flow (m ³ /day)	Formaldehyde (mg/l)	Chloride (g/l)	Temperature (°C)	TOC (mg/l)	Oil (mg/l)
Date	Release pt E1	Release pt E4	Release pt E5	Release pt E5	Release pt E5	Release pt E5	Release pt E5
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Maximum							
Minimum							
Flow-weighted average							

Signed on behalf of the Operator by
Date.....

Form S3/W7

RELEASES TO WATER

RELEASES TO ON-SITE EFFLUENT TREATMENT PLANT

RELEASE SUMMARY FOR THE MONTH OF 200..

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

	Flow (m ³ /day)	Oil (mg/l)	Formaldehyde (mg/l)	TOC (mg/l)
Date	Release pt E6	Release pt E6	Release pt E6	Release pt E6
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Maximum				
Minimum				
Flow-weighted average				
Produced Waters and Refinery Waters Storage Contents		At start of month	At end of month	Volume processed
Produced Waters stored (m ³)				
Refinery Waters stored (m ³)				

Signed on behalf of the Operator by

Date.....

Form S3/W8

RELEASES TO WATER
ANNUAL RELEASES
RELEASE FOR YEAR.....

Operator: Petroplus Tankstorage Milford Haven Limited

Location: Waterston Refinery, Pembrokeshire, SA73 1DR

Authorisation/Variation Number: BK1341/BK1341

Substance	Actual Release (kg)	Release Limit (kg)
Chlorinated hydrocarbons		-
Suspended solids		-
Total BOD 5 (ATU)		-
Ammoniacal nitrogen		-
Total oil		-
Total Organic Carbon		-
Formaldehyde		-
Methanol		-
Ethanol		-
Propanol		-
Sulphide (as S)		-
Total phenols		-
Total cyanide		-
Chloride		-
Cadmium		5.5
Mercury		0.7
Lead		-
Copper		-
Iron		-
Nickel		-
Zinc		-
Chromium		-

Signed on behalf of the Operator by

Date.....

Form S3/W9

WASTE RETURNS
ANNUAL RELEASES
RELEASE FOR YEAR.....

Operator: Petroplus Tankstorage Milford Haven Limited
Location: Waterston Refinery, Pembrokeshire, SA73 1DR
Authorisation/Variation Number: BK1341/BK1341

Substance	Actual Release (kg)
General waste	
Jetty waste	
Special waste	
Landfarm	
Excess Activated Sludge	

Signed on behalf of the Operator by

Date.....

Form S3/R1