

Licence Variation



Licence - 1048

TERMINALS PTY LTD
Trading as QUANTEM
ABN 87 000 348 407
PO BOX 148
MATRAVILLE NSW 2036

Attention: Stephen Lewis

Notice Number 1601929
File Number EF13/3699
Date 30-Oct-2020

NOTICE OF VARIATION OF LICENCE NO. 1048

BACKGROUND

- A. TERMINALS PTY LTD Trading as QUANTEM ("the licensee") is the holder of Environment Protection Licence No. 1048 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of activities at 45 AND 51 FRIENDSHIP ROAD, PORT BOTANY, NSW, 2036 ("the premises").
- B. On 21-Oct-2020 the Environment Protection Authority (EPA) received an application for the variation of the licence.

Upgrade to Vapour Recovery Unit

- C. Condition U1 of the the licence requires the licensee to complete a range of upgrade works to the Vapour Recovery Unit ("VRU") at the premises by 1 November 2020, and to undertake emissions testing of the upgraded VRU by 23 November 2020.
- D. On 19 October 2020 the licensee notified the EPA that due to travel restrictions imposed during the COVID situation, the engineers that are required to help implement the VRU upgrade works have been delayed in travelling to the premises.
- E. The licensee is therefore asking for an extension to the due dates for completion of the upgrade works and emissions testing.
- F. This notice amends the due dates for completion of the upgrade works and emissions testing required under condition U1

Commissioning of Polymer Modified Bitumen Facility

- G. Condition A1.2 of the licence authorises the licensee to undertake scheduled development works, namely construction of a new Polymer Modified Bitumen ("PMB") facility at the premises.

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- H. The licensee has notified the EPA that it expects the new PMB facility to commence commissioning works on 1 November 2020, and to commence operations on 14 December 2020.
- I. This notice adds a note to condition A1.2, specifying the expected date of completion of the scheduled development works.

General considerations

- J. The EPA has taken the matters listed under section 45 of the Act into consideration when drafting this notice. In particular:
 - a) The air pollution that may be caused by undertaking chemical and fuel storage, and petroleum products production at the premises, and the likely impact of any such pollution on the environment and local community;
 - b) The ability of the VRU to mitigate air emissions from the premises, and the likely impact of any delays to upgrading the VRU;
 - c) The information contained in the application to vary the licence, including the documents titled: *Puma Energy Australia Botany PMB Project Noise and Vibration Assessment (August 2018)*, and *Puma Energy Australia Botany PMB and CRMB Project Air Quality Assessment (October 2020)*; and
 - d) The requirements of the EPA Compliance Policy and the EPA's Risk Based Licensing framework.
- K. The EPA considers that:
 - Amending the due dates for the VRU upgrade; and
 - adding a note to the licence in relation to the scheduled start-up date of the PMB facility;does not pose any significant risk to human health or the environment..

VARIATION OF LICENCE NO. 1048

- 1. By this notice the EPA varies licence No. 1048. The attached licence document contains all variations that are made to the licence by this notice.
- 2. The following variations have been made to the licence:
 - Condition U1.1, which previously stated:

U1.1 The licensee must complete the actions detailed in the document titled 'Quantem - VRU Upgrade Program 2020 - Status Date 7/1/2020' (EPA ref. DOC20/136114-1) by 1 November 2020.

has been replaced by:

U1.1 The licensee must complete the actions detailed in the document titled 'Quantem - VRU Upgrade Program 2020 - Status Date 7/1/2020' (EPA ref. DOC20/136114-1) by 1 January 2021.
 - Condition U1.2, which previously stated:

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U1.2 The licensee must undertake emissions testing of the upgraded VRU by 23 November 2020.
has been replaced by:

U1.2 The licensee must undertake emissions testing of the upgraded VRU by 23 January 2021.

- Condition U1.3, which previously stated:

U1.3 The licensee must submit a report to the EPA by 31 January 2021, detailing the results of the emissions testing required under condition U1.2.

has been replaced by:

U1.3 The licensee must submit a report to the EPA by 31 March 2021, detailing the results of the emissions testing required under condition U1.2.

- A note has been added to condition A1.2, which reads:

The scheduled development work specified above is scheduled to be completed by 14 December 2020, after which operation of the completed Polymer-Modified Bitumen facility will be regulated under the existing conditions of the licence.

- Condition U1.4, which previously stated:

U1.4 The report required under condition U1.3 must be provided to the EPA at:

Director Regulatory Operations Metro South
Locked Bag 5022
Parramatta
NSW 2124

OR

Via email at: metro.regulation@epa.nsw.gov.au

has been replaced by:

U1.4 The report required under condition U1.3 must be provided to the EPA at:

Director Regulatory Operations Metro West
Locked Bag 5022
Parramatta
NSW 2124

OR

Via email at: RegOps.MetroRegulation@epa.nsw.gov.au

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A handwritten signature in blue ink, appearing to read 'Jacqueline Ingham'.

.....
Jacqueline Ingham
Unit Head
Metropolitan West - Sydney
(by Delegation)

INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (<http://www.epa.nsw.gov.au/prpoeo/index.htm>) in accordance with section 308 of the Act.

Appeals against this decision

- You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

When this notice begins to operate

- The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.
- If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

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Licence Details	
Number:	1048
Anniversary Date:	07-February

Licensee
TERMINALS PTY LTD
PO BOX 148
MATRAVILLE NSW 2036

Premises
TERMINALS PTY LTD
45 AND 51 FRIENDSHIP ROAD
PORT BOTANY NSW 2036

Scheduled Activity
Chemical storage
Petroleum products and fuel production
Shipping in bulk
Waste storage

Fee Based Activity	Scale
Chemical storage waste generation	> 100 T annual volume of waste generated or stored
Petroleum products and fuel production	> 10000-200000 T annual production capacity
Petroleum products storage	> 100000 kL storage capacity
Shipping in bulk	> 100000-500000 T of annual capacity to load and unload
Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored

Region
Metropolitan West - Sydney
4 Parramatta Square, 12 Darcy Street
PARRAMATTA NSW 2150
Phone: (02) 9995 5000
Fax: (02) 9995 6900
Locked Bag 5022
PARRAMATTA NSW 2124

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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

TERMINALS PTY LTD
PO BOX 148
MATRAVILLE NSW 2036

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Chemical storage	Chemical storage waste generation	> 100 T annual volume of waste generated or stored
Petroleum products and fuel production	Petroleum products and fuel production	> 10000 - 200000 T annual production capacity
Chemical storage	Petroleum products storage	> 100000 kL storage capacity
Shipping in bulk	Shipping in bulk	> 100000 - 500000 T of annual capacity to load and unload
Waste storage	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Any listed waste type stored

A1.2 This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2:

Construction of a Polymer-Modified Bitumen Facility at Lot 52 DP 1182618.

Note: *The scheduled development work specified above is scheduled to be completed by 14 December 2020, after which operation of the completed Polymer-Modified Bitumen facility will be regulated under the existing conditions of the licence.*

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
TERMINALS PTY LTD
45 AND 51 FRIENDSHIP ROAD
PORT BOTANY
NSW 2036

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LOT 16 DP 1126332, LOT 17 DP 1126332, LOT 18 DP 1126332, LOT 52 DP 1182618, LOT 102 DP 1182871, LOT 104 DP 1182871

A2.2 In relation to A2.1 the premises also includes infrastructure owned by the licensee for the purpose of carrying out shipping in bulk activities from vessels moored at Bulk Liquids Berth 1 and Bulk Liquids Berth 2.

Note: Infrastructure includes but is not limited to:

- pipelines that run from the premises defined in Condition A2.1 to the Bulk Liquids Berths;
- hoses; and
- hose connections.

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Discharge to air Air emissions monitoring	Discharge to air Air emissions monitoring	Vent stack on vapour emission control plant 2 labelled "DP 2" on drawing No. BB-421 titled "Port Botany-Site Plan" submitted to the EPA dated 11 November 2005.
3	Thermal oxidiser for treatment of benzene emissions.		The point marked as 'Thermal Oxidiser' on drawing number LAY-001 Revision D, dated 19 August 2011.

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4	Vent stack on thermal oxidiser for treatment of benzene emissions.	Vent stack on thermal oxidiser for treatment of benzene emissions.	The vent stack servicing the point marked as 'Thermal Oxidiser' on drawing number LAY-001 Revision D, dated 19 August 2011.
7	Vent stack on the bitumen vapour burner.	Vent stack on the bitumen vapour burner.	The vent stack servicing the point marked as 'B220 Bitumen Vapour Burner' on drawing number 218533-L-003 Revision 1, dated 4 May 2011.
8	Thermal oxidiser for Bitumen Plant		The point marked 'B220 Bitumen Vapour Burner' on drawing number 218533-L-003 Revision 1, dated 4 May 2011
9	Vapour Recovery Unit	Vapour Recovery Unit	Vent stack on Vapour Recover Unit labelled on drawing No. 1040 titled "Terminals Site C Site Layout" submitted to the EPA dated 18 October 2017.

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
11	Bund Stormwater Sample Measure and Discharge Point.		Bund stormwater Sample Measure Discharge Point labelled on drawing No.1040 titled "Terminal Site C" Layout submitted to the EPA 15 November 2017.

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Load limits

L2.1 The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.

L2.2 The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol.

Assessable Pollutant	Load limit (kg)
Arsenic (Air)	

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Benzene (Air)	3000.00
Benzo(a)pyrene (equivalent) (Air)	
Fine Particulates (Air)	
Hydrogen Sulfide (Air)	
Lead (Air)	
Mercury (Air)	
Nitrogen Oxides - Summer (Air)	
Nitrogen Oxides (Air)	
Sulfur Oxides (Air)	
Volatile organic compounds - Summer (Air)	
Volatile organic compounds (Air)	25000.00

Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.

L3 Concentration limits

L3.1 Air Concentration Limits

POINT 4

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Nitrogen dioxide	milligrams per cubic metre	350			
Volatile organic compounds	milligrams per cubic metre	20			
Benzene	milligrams per cubic metre	1			

POINT 7

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Volatile organic compounds	milligrams per cubic metre	40			
Nitrogen dioxide	milligrams per cubic metre	350			

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POINT 9

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Volatile organic compounds	grams per litre	20	as n propane		4 Hours

Note: a) The air emissions treatment system identified as Point 3 at Condition P1.1 is not taken to belong to Group 6 emissions units by virtue of clause 33(3) of the *Protection of the Environment Operations (Clean Air) Regulation 2010*.

b) The air emissions Vapour Recovery Unit identified as Point 9 at Condition P1.1 concentration limit of 20mg/L identified under L3.1 is set as a post commissioning limit. A lower limit of no greater than 10mg/L is expected to be achieved.

L3.2 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L3.3 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.

L3.4 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.

L3.5 Water and/or Land Concentration Limits

POINT 11

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
BOD	grams per litre				20
Oil and Grease	grams per litre				10
pH	pH				6.5 to 8.5
TSS	grams per litre				30

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L4 Volume and mass limits

- L4.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:
- liquids discharged to water; or;
 - solids or liquids applied to the area;
- must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
11	kilolitres per day	5300

L5 Waste

- L5.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
C100	Basic solutions or bases in solid form		Waste storage	The quantity of hazardous and/or liquid waste stored on the premises must not exceed 3000 tonnes at any one time.
G110	Organic solvents excluding halogenated solvents		Waste storage	The quantity of hazardous and/or liquid waste stored on the premises must not exceed 3000 tonnes at any one time.
G160	Waste from the production, formulation, and use of organic solvents		Waste storage	The quantity of hazardous and/or liquid waste stored on the premises must not exceed 3000 tonnes at any one time.
J120	Waste oil/hydrocarbons		Waste storage	The quantity of

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	mixtures/emulsions in water			hazardous and/or liquid waste stored on the premises must not exceed 3000 tonnes at any one time.
N100	Containers & drums containing controlled waste residues		Waste storage	The quantity of hazardous and/or liquid waste stored on the premises must not exceed 3000 tonnes at any one time.
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 92 of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	NA
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L5.2 The licensee must comply with the conditions as specified in this licence or where no specific conditions are outlined in this licence, the licensee must comply with the Protection of the Environment Operations (Waste) Regulation 2014.

L6 Potentially offensive odour

L6.1 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

L7 Other limit conditions

L7.1 For each monitoring/ discharge point or utilisation area specified in the tables below (by point number), the parameter must be equal to or greater than the lower limits specified for that parameter in that table.

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Combustion Parameter Limits

Point 3

Parameter	Units of Measure	Lower Limit	Averaging Period
Residence Time	Seconds	1	Instantaneous
Temperature	Degrees Celcius	760	Instantaneous

Point 8

Parameter	Units of Measure	Lower Limit	Averaging Period
Residence Time	Seconds	0.5	Instantaneous
Temperature	Degrees Celcius	760	Instantaneous

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Processes and management

O3.1 The licensee must ensure that any liquid and/or non liquid waste generated and/or stored at the premises is assessed and classified in accordance with the EPA Waste Classification Guidelines as in force from time to time.

O3.2 The licensee must ensure that waste identified for recycling is stored separately from other waste.

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O4 Other operating conditions

O4.1 The bitumen vapour burner must be online when the bitumen plant is operational.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Water and/ or Land Monitoring Requirements

POINT 11

Pollutant	Units of measure	Frequency	Sampling Method
BOD	grams per litre	Special Frequency 2	Grab sample
Oil and Grease	grams per litre	Special Frequency 2	Grab sample
pH	grams per litre	Special Frequency 2	Grab sample
Total Solid Particles	grams per litre	Special Frequency 2	Grab sample

M2.3 Air Monitoring Requirements

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POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Organic vapours	parts per million	Continuous	In line instrumentation

POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
residence time	seconds	Continuous	Special Method 1
Temperature	Celsius	Continuous	TM-2

POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Benzene	milligrams per cubic metre	Yearly	TM-34
Dry gas density	kilograms per cubic metre	Yearly	TM-23
Moisture content	percent	Yearly	TM-22
Molecular weight of stack gases	grams per gram mole	Yearly	TM-23
Nitrogen dioxide	milligrams per cubic metre	Yearly	TM-11
Temperature	degrees Celsius	Yearly	TM-2
Velocity	metres per second	Yearly	TM-2
Volatile organic compounds	milligrams per cubic metre	Yearly	TM-34
Volumetric flowrate	cubic metres per second	Yearly	TM-2

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Dry gas density	kilograms per cubic metre	Yearly	TM-23
Hydrogen Sulfide	milligrams per cubic metre	Yearly	TM-5
Moisture content	percent	Yearly	TM-22
Molecular weight of stack gases	grams per gram mole	Yearly	TM-23
Nitrogen dioxide	milligrams per cubic metre	Yearly	TM-11
Oxygen (O ₂)	percent	Yearly	TM-25
Temperature	degrees Celsius	Yearly	TM-2
Velocity	metres per second	Yearly	TM-2
Volatile organic compounds	milligrams per cubic metre	Yearly	TM-34

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Volumetric flowrate	cubic metres per second	Yearly	TM-2
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POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
residence time	seconds	Continuous	Special Method 1
Temperature	Celsius	Continuous	TM-2

POINT 9

Pollutant	Units of measure	Frequency	Sampling Method
Volatile organic compounds	grams per litre	Special Frequency 1	TM-20

M2.4 For the purpose of the table/s in Condition M2.2 **Special Method 1** means the calculation of residence time within the thermal oxidiser using measurements of differential pressure and temperature at alternative locations in the air treatment system, and including all necessary corrections for temperature differences and process gas inflows between the oxidiser and the alternative measurement locations.

M2.5 Special Frequency 1 means the collection of a single four hour continuous sample during one of the months of November, December, January or February in each financial year. The sample must be representative of the predicted maximum concentrations of organic vapours as n-propane released from the EPA Identification Point 9 during the sample period.
Special frequency 2 means one grab sample per discharge event. The sample must be collected within, one hour of the commencement of the discharge. In the case of frequent discharge during rainfall events, no more than two discharge events need to be sampled per calendar month.

M3 Testing methods - concentration limits

M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
- if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

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M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Testing methods - load limits

Note: Division 3 of the *Protection of the Environment Operations (General) Regulation 2009* requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.

M5 Recording of pollution complaints

M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M5.2 The record must include details of the following:

- a) the date and time of the complaint;
- b) the method by which the complaint was made;
- c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- d) the nature of the complaint;
- e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

M7 Requirement to monitor volume or mass

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M7.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- the volume of liquids discharged to water or applied to the area;
- the mass of solids applied to the area;
- the mass of pollutants emitted to the air;

at the frequency and using the method and units of measure, specified below.

POINT 11

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	Flow meter and continuous logger

M8 Other monitoring and recording conditions

M8.1 By no later than 30 July 2017, a Groundwater Management Plan (GMP) must be developed by an appropriately qualified and experienced contaminated land management consultant, for the premises as defined at A2.1 of this licence ('the site'). The GMP must be reviewed and assessed by a Contaminated Site Auditor accredited by the EPA under the Contaminated Land Management Act 1997 as being appropriate to monitor and address the groundwater conditions at the site and to identify, respond and report on groundwater conditions that have the potential to migrate off the site.

The GMP must, as a minimum, document the following:

- Site description and surrounding land uses
- Site geology and hydrogeology
- Summary of historical and recent environmental incidents
- Summary of historical and recent groundwater investigations
- Site contaminants of concern
- Conceptual site model
- A Groundwater sampling and analysis plan (GW-SAP)

The GW-SAP must, as a minimum, include the following:

- A report on the gauging, sampling and analyte results of any groundwater monitoring
- Assessment of monitoring results against criteria made or approved by the EPA
- Assessment of the potential for off-site migration of contaminants
- Assessment of the residual LNAPL volumes within the sub-surface
- The current recommended monitoring frequency, based on the GMP

Note: The GMP must be revised if the site's groundwater trends or contamination context changes, as per Condition M7.3(3).

M8.2 By no later than 30 September 2017, the Groundwater Management Plan (GMP) required by Condition M7.1 of this licence must be submitted to the EPA via email to metro.regulation@epa.nsw.gov.au and be accompanied by evidence of endorsement of the GMP by a Contaminated Sites Auditor accredited under the *Contaminated Land Management Act 1997*.

M8.3 By no later than 7 April 2018 and every two years thereafter, a Progress Report must be developed by an appropriately qualified and experienced contaminated land management consultant and submitted to the Manager Sydney Industry via email to metro.regulation@epa.nsw.gov.au and must include but is not limited to:

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1. Details of the groundwater monitoring results undertaken within the previous 24 months
2. Details of the progress against works proposed in the previous report
3. Updates to the Groundwater Management Plan, if the site's groundwater trends, or contamination context, changes, including:
 - (a) an update of the Conceptual Site Model, and
 - (b) revision of the Groundwater Sampling and Analysis Plan.

Any comments from the EPA must be considered and incorporated prior to finalising any revisions of the GMP.

Note: The site's contamination context is taken to include any new or emerging contaminants of concern.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,
4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or

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b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify:

- a) the assessable pollutants for which the actual load could not be calculated; and
- b) the relevant circumstances that were beyond the control of the licensee.

R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.8 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

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R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- the cause, time and duration of the event;
- the type, volume and concentration of every pollutant discharged as a result of the event;
- the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Other general conditions

G2.1 Completed Programs

Program	Description	Completed Date
Leak Detection and Repair Program	Leak Detection and Repair Program initial project startup.	17-December-2010
Benzene Air Emission Reductions	Reduce air emissions of Benzene, Toluene, Xylene (BTX) Pygas storage and transfers from the premises.	30-June-2013
Volatile Organic Compounds Verification Report	Confirm VOC emissions from the VRU, and investigate options to reduce fugitive emissions.	27-March-2019

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8 Pollution Studies and Reduction Programs

U1 Vapour Recovery Unit (VRU) Upgrade

U1.1 The licensee must complete the actions detailed in the document titled 'Quantem - VRU Upgrade Program 2020 - Status Date 7/1/2020' (EPA ref. DOC20/136114-1) by 1 January 2021.

Note: The works undertaken as part of the VRU Upgrade include:

- * Upgrade of the liquid ring vacuum pump to a larger unit, which will provide better regeneration of the carbon beds;
- * Upgrade of the current automatic regeneration bed valves to provide better isolation against vacuum;
- * Installation of a new glycol heat exchanger to better manage the cooling of the new, larger liquid ring vacuum pump; and
- * Upgrade of the CEM (continuous emissions monitor) and PLC controls to allow for more efficient VRU control.

U1.2 The licensee must undertake emissions testing of the upgraded VRU by 23 January 2021.

U1.3 The licensee must submit a report to the EPA by 31 March 2021, detailing the results of the emissions testing required under condition U1.2.

U1.4 The report required under condition U1.3 must be provided to the EPA at:

Director Regulatory Operations Metro West
Locked Bag 5022
Parramatta
NSW 2124

OR

Via email at: RegOps.MetroRegulation@epa.nsw.gov.au

Note: The EPA intends to use the results of the emissions testing required above to determine the feasibility of amending the licence concentration limit for VOC emissions from the VRU from 20 mg/L to 10 mg/L.

9 Special Conditions

E1 Vapour Emission Control System

E1.1 The Vapour Emission Control System (VECs) "discharge Point 2" can not be used to treat vapours that result from the processing (loading and unloading) of Pygas and or Benzene Toluene Xylene (BTX).

Note: The VECs can be used when the Thermal Oxidiser is not operating or is operable, for tank breathing losses of (Pygas, BTX) only.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Niall Johnston

Environment Protection Authority

(By Delegation)

Date of this edition: 22-November-2000

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End Notes

- 1 Licence varied by notice 1015343, issued on 20-Jun-2002, which came into effect on 15-Jul-2002.
- 2 Licence varied by notice 1022073, issued on 06-Dec-2002, which came into effect on 31-Dec-2002.
- 3 Licence varied by notice 1042996, issued on 05-Jan-2005, which came into effect on 05-Jan-2005.
- 4 Licence varied by notice 1047338, issued on 09-May-2005, which came into effect on 03-Jun-2005.
- 5 Licence varied by notice 1053874, issued on 03-Feb-2006, which came into effect on 28-Feb-2006.
- 6 Licence varied by notice 1056810, issued on 28-Mar-2006, which came into effect on 22-Apr-2006.
- 7 Licence varied by correction to the Premise Suburb record, issued on 27-Apr-2006, which came into effect on 27-Apr-2006.
- 8 Licence varied by notice 1072217, issued on 09-Aug-2007, which came into effect on 09-Aug-2007.
- 9 Licence varied by notice 1077130, issued on 30-Aug-2007, which came into effect on 30-Aug-2007.
- 10 Licence varied by change to legislation, issued on 20-Sep-2007, which came into effect on 20-Sep-2007.
- 11 Licence varied by notice 1090350, issued on 07-Aug-2008, which came into effect on 07-Aug-2008.
- 12 Licence varied by notice 1092350, issued on 25-Sep-2008, which came into effect on 25-Sep-2008.
- 13 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 14 Licence varied by notice 1093626, issued on 03-Dec-2008, which came into effect on 03-Dec-2008.
- 15 Licence varied by notice 1104992, issued on 05-Nov-2009, which came into effect on 05-Nov-2009.
- 16 Licence varied by notice 1120665, issued on 02-Nov-2010, which came into effect on 02-Nov-2010.
- 17 Licence varied by notice 1123959, issued on 11-Feb-2011, which came into effect on 11-Feb-2011.
- 18 Licence varied by notice 1502616 issued on 25-Nov-2011

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19	Licence varied by notice	1507759 issued on 09-Aug-2012
20	Licence varied by notice	1511002 issued on 25-Jan-2013
21	Licence varied by notice	1513000 issued on 06-May-2013
22	Licence varied by notice	1516698 issued on 13-Sep-2013
23	Licence varied by notice	1522924 issued on 30-Jul-2014
24	Licence varied by notice	1537427 issued on 23-Feb-2016
25	Licence varied by notice	1542778 issued on 07-Mar-2017
26	Licence varied by notice	1557308 issued on 23-Nov-2017
27	Licence varied by notice	1591767 issued on 13-Mar-2020
28	Licence varied by notice	1595727 issued on 18-Jun-2020