

Clyde Terminal

Annual Environmental Performance Review

Reporting Period: 01 January to 31 December 2017

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Issue date: 30 July 2018

Table 1: Annual Review title block

Document Details	1
Name of Operation	Clyde Terminal
Name of Operator	Viva Energy Australia Pty Ltd (Viva Energy)
Development consent / project approval #	SSD 5147
lame of Operation lame of Operator levelopment consent / project approval # lame of holder of development consent / project approval nnual review start date	Viva Energy
Annual review start date	01 January 2017
Annual review end date	31 December 2017

I, Julie Seymour, certify that this audit report is a true and accurate record of the compliance status of the Clyde Terminal for the period 01 January to 31 December 2017 and that I am authorised to make this statement on behalf of Viva Energy.

Note.

- a) The Annual Review is an "environmental audit" for the purpose of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement – maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents – maximum penalty 2 years imprisonment or \$22,000, or both).

Name of authorised reporting officer	Julie Seymour
Title of authorised reporting officer	Regional Operations Manager - South
Signature of authorised reporting officer	Beymour.
Date	30 July 2018

Issue date: 30 July 2018

1 Statement of compliance

Table 2 highlights the compliance status of Clyde Terminal with its relevant approval conditions with two identified non-compliances during the reporting period being discussed in Table 3.

Table 2: Statement of compliance

Were all conditions of the relevant approval(s) complied with?	
SSD 5147	NO
EPBC 2013/6878	YES

Table 3: Non-compliances

Condition #	Condition description (summary)	Compliance status	Comment	Report reference
Approval: SS	Approval: SSD 5147, 97 conditions in total			
C30	Implementation of the Air Quality Monitoring Program	Administrative non-compliance	Annual emission survey for odour and VOC	Section 6.2
C46	Compliance with EPL water concentration limits	Low non- compliance	One exceedance of the TSS limit at Discharge Point 29	Section 6.3

Compliance status key for Table 3

Risk level	Colour code	Description
High	Non- compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non- compliant	Non-compliance with: • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non- compliant	Non-compliance with: • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur
Administrative non- compliance	Non- compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

2 Introduction

Viva Energy operates the Clyde Terminal, which receives, stores, doses and distributes finished petroleum products.

Following the closure of the Clyde Refinery in late 2012 and the cessation of refining activities, Viva Energy proposed to undertake the following works at the terminal:

- Demolition works The removal of redundant refinery processing units, tanks and other infrastructure.
- Construction works The carrying out of works including excavation, upgrades to tanks, bunds, drainage and
 instrumentation, replacement of electrical substations, upgrades to the fire water system and revised pumping
 and piping works.
- Operation The operation of the site as a bulk fuel storage facility.

The main objectives of the conversion project are:

- To improve the efficiency of the Clyde Terminal by upgrading existing facilities and structures; and
- To improve environmental and safety performance of the Clyde Terminal while continuing to operate as a viable and efficient finished petroleum product receipt, storage and distribution terminal.

On 14 January 2015, the Planning Assessment Commission of NSW (as delegate of the Minister for Planning) granted Development Consent (SSD 5147) for the project subject to a number of conditions. The Clyde Terminal currently receives finished petroleum products from the Gore Bay Terminal. These products are distributed by pipeline from the Clyde Terminal to the adjacent Parramatta Terminal road gantry, to Sydney Airport, to Silverwater terminal and to Newcastle via existing infrastructure. The Clyde Terminal site area, site access and receivers are shown in Figure 1 below.

The content of this Annual Review meets the requirements of SSD 5147 condition D4. Table 4 below lists the requirements and the corresponding sections where each specific requirement is addressed. Also, this report follows the applicable structure outlined in the Department of Planning and Environment (DPE) Annual Review Guideline for State significant mining developments, October 2015.

Table 4: Annual review reporting requirements

Condition D4 requirement	AEPR Section		
By the end of July each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the Development to the satisfaction of the Secretary. This review must:			
(a) describe the construction and demolition activities that were carried out in the previous calendar year, and the construction and demolition activities proposed to be carried out in the coming calendar year;	Section 4		
 (b) include a comprehensive review of the monitoring results and complaints records of the Development over the previous calendar year, which includes a comparison of these results against: the relevant statutory requirements, limits or performance measures/criteria; the monitoring results of previous years; and the relevant predictions in the EIS; 	Section 6		
(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Sections 1, 6 and 9		
(d) identify any trends in the monitoring data over the life of the Development;	Section 6		
(e) identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and	Section 6		
(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the Development.	Section 10		

Contact details of key personnel who are responsible for the environmental management of Clyde Terminal are listed in Table 5 below.

Table 5: Clyde Terminal management contact details

Name and role	e-mail contact details		
James Crowden, NSW Operations Manager	James.Crowden@vivaenergy.com.au		
Trent Youlten, Parramatta and Clyde Coordinator	Trent.Youlten@vivaenergy.com.au		
Adam Speers, Environmental Advisor	Adam.Speers@vivaenergy.com.au		

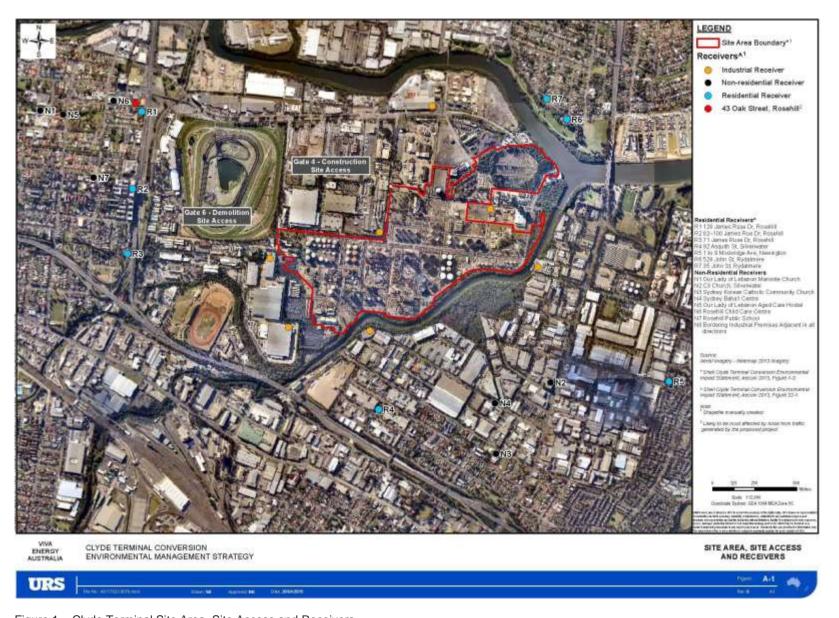


Figure 1 – Clyde Terminal Site Area, Site Access and Receivers

3 Approvals

Viva Energy (formerly The Shell Company of Australia Limited) holds two statutory approvals for Clyde Terminal, namely:

- SSD 5147, issued on 14 January 2015 by the Planning Assessment Commission of NSW (as delegate of the Minister for Planning) for the "Conversion of the existing Shell Clyde Refinery to a finished petroleum products import, storage and distribution terminal including demolition of the redundant infrastructure".
- EPBC 2013/6878, issued on 17 April 2014 by the Department of Environment for the Shell Clyde Terminal Expansion "to undertake physical modifications at the existing Shell Clyde Terminal, Rosehill, NSW in accordance with the EPBC Act referral 2013/6878". This approval has effect until 31 December 2064.

In addition, continued terminal operations are also subject to the conditions and requirements under the existing Environment Protection Licence (EPL) No. 570 under the Protection of Environment Operations Act 1997 (POEO Act).

No modifications occurred to the above listed approvals during the reporting period.

4 Development activities

This Section describes the works undertaken in accordance with Development Consent SSD 5147 during the reporting period (1 January to 31 December 2017).

4.1 Works undertaken during this reporting period

4.1.1 Demolition works

The scope of the Liberty demolition contract was completed during the last reporting period (2016) and no demolition works were undertaken in this reporting period.

Demolition works remain within the approved period of ten (10) years from date of the SSD 5147.

4.1.2 Construction works

The following construction works were undertaken during this reporting period:

- Refurbishment of the following storage tanks:
 - Tank farm B: Tank 53
 - Tank farm B1: Tank 42
 - Tank farm B2: Tank 33
 - Tank farm E1: Tanks 38, 40 & 41
 - Tank farm E2: Tanks 86 & 87
- Construction of the following storage tanks:
 - Firewater area: Firewater tanks x 2
 - Tank farm B2: Tanks 78 & 79
- · Various piping installations and modifications, including;
 - Mogas tanks and Quick Flush Tanks (QFT's) in Tank farms E1 and E2
 - Jet tanks & transfer pit and QFT's in tank farm B1
 - Diesel tanks, manifold, pump pit and QFT's.
 - General utilities
- Various electrical and instrumentation works, including;
 - Decommissioning of 33kV switchyard
 - Electrical substations 2, 15 and 30 Low Voltage (LV)
- Instrumentation for tanks in Tank farms E1, E2 and B1, foam skids, jet filters
- · Various civil works for associated equipment

Refer to Appendix A.1 for construction area locations.

Construction works are ongoing and remain within the approved period of four (4) years from date of the SSD 5147.

4.1.3 Operations

Operations at Clyde Terminal continued 24 hours, Monday to Sunday, during this reporting period in accordance with condition C22 of the SSD 5147.

The Clyde Terminal continued receiving finished petroleum products from the Gore Bay pipeline and the Sydney Metropolitan pipeline. Products were stored in compliance with the limits prescribed in condition B5 of the SSD 5147 (refer to Table 6 below). Products were distributed by pipeline from the Clyde Terminal to the adjacent Parramatta Terminal road gantry, to Sydney Airport, to Silverwater terminal and to Newcastle.

Table 6: Operations summary

Product	Approved limit	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Finished petroleum products (ML)	264	264	254	250
Petroleum gases (m3)	1,550	0	0	0

4.2 Proposed works for the next reporting period

4.2.1 Demolition works

Stage 2 demolition works are planned to start by late 2018 and will be detailed in the next reporting period.

4.2.2 Construction works

Construction works planned for the next reporting period are as follows:

- Refurbishment of the following storage tanks:
 - Tank farm B: Tank 53 completion
 - Tank farm B2: Tank 33 completion
 - Tank farm E1: Tank 36 completion
 - Tank farm E2: Tank 84, Tank 86 completion
 - Tank farm K: Tank 90 minor works
- Construction of the following storage tanks:
 - Tank Farm B2: Tanks 78 & 79 completion
- · Various piping installations and modifications, including;
 - Mogas tanks and Quick Flush Tanks (QFT's) in Tank farms E1 and E2 completion
 - Jet tank 53, Joint User Hydrant Installation (JUHI) transfer pit and gantry tie ins
 - Firewater area completion
 - Diesel tanks, manifold, pump pit and QFT's completion
 - General utilities completion
- · Various electrical and instrumentation works, including;
 - Electrical substations 2, 15 and 30 Low Voltage (LV) completion
 - Fire water
 - Lighting
- Instrumentation for tanks in Tank farms E1, E2 and B1, foam skids and jet filters completion
- Various civil works for associated equipment completion

Refer to Appendix A.1 for construction area locations.

4.2.3 Operations

Operational activities during the next reporting period will be consistent with those described on section 4.1.3 above.

5 Actions required from previous Annual Review

DPE Compliance acknowledged receipt of the Annual Review 2016 by letter dated 28 August 2017 (refer to Appendix A.2). DPE advised that the Annual Review 2016 "generally satisfied the requirement of the consent in relation to the Annual Environmental Performance Review". They also recommended to consider using the structure outlined in the Annual Review Guideline for future reporting.

Following this recommendation, Viva Energy modified the structure of the Annual Review report to the applicable content of the DPE's guideline. The revised structure is presented in this report.

6 Environmental performance

6.1 Noise

Construction noise at Clyde is managed in accordance with the Construction and Demolition Noise Management Plan. This plan was prepared to meet the requirements of condition C25 of the SSD 5147.

Construction works were undertaken within the approved hours under condition C22 of the SSD 5147. No noise complaints were received during this reporting period. Therefore, noise monitoring at the sensitive receivers was not triggered or required.

6.2 Air

Construction air emissions are managed in accordance with the Construction and Demolition Air Quality Management Plan. This plan was prepared to meet the requirements of condition C31 of the SSD 5147. During the reporting period, visual observations were conducted weekly throughout various areas of construction works. No dust complaints associated with construction works were received during the reporting period.

Operational air emissions are managed in accordance with the Environmental Management Manual (EMM) and monitored following the approved Operational Air Quality Monitoring Program under condition C30 of the SSD 5147. Monitoring results for the reporting period are detailed below:

Dust: Visual monitoring for dust was undertaken during routine site activities. No dust complaints associated with Operations were received during the reporting period.

Odour: Low levels of odour were observed and recorded during regular site surveillance. Potential for odour generation during regular activities was also assessed during Job Start meetings and Barrier Thinking meetings. Potential for odour generation during non-routine activities were assessed and managed by Permit to Work. No offensive odours were identified in these assessments.

VOCs: The tank maintenance program included maintenance on floating covers and associated vapour sealing systems as part of scheduled off stream inspections to control VOC emissions.

Emissions from the storage tanks were estimated using the techniques in line with the National Pollutant Inventory (NPI) reporting process and submitted to both NPI and Annual Return required under EPL 570 for the period 02 July 2016 to 01 July 2017. Yearly VOC emissions estimates resulted in 0.44 ton Benzene and 128.51 ton VOC, well below the EPL load limits (26 ton and 1250 ton, respectively).

The Annual Emission Survey for odours and VOCs as specified in the Operational Air Quality Monitoring Program was not implemented during the reporting period and therefore is reported as a non-compliance on Section 1 above. The survey was undertaken in May 2018 by a suitably qualified and independent consultant with results to be presented in the next reporting period.

6.3 Soil and water

Construction soil and water environmental aspects are managed in accordance with the Soil and Water Management Plan. This plan was prepared to meet the requirements of conditions C17, C20, C24 and C50 of the SSD 5147. During the reporting period, visual observations were conducted to ensure sediment-laden water was properly managed and not discharged off-site.

In May 2017, Clyde Terminal was audited by DPE as part of the NSW Government's "Get the Site Right" campaign to improve NSW construction site's management of erosion and sediment controls. Following this audit, Viva Energy amended the Soil and Water Management Plan to include a site specific Erosion and Sediment Control Plan (in addition to the already included and approved activity-specific Erosion and Sediment Control Plan requirement for contractors). This additional information will improve communication of requirements to contractors so that they can be taken into account in the development of work methods statements.

No groundwater or excavated soil testing was required during the reporting period.

Two thousand tons of crushed sand stone was imported to Clyde Terminal for the foundation of the two diesel tanks constructed in tank farm B2. VENM certification for this imported material is presented in Appendix A.4.

The soil and water management measures for Operations are detailed in the EMM. During this reporting period, monitoring and maintenance of drains was undertaken on a routine basis.

Monitoring of surface water discharge was conducted in accordance with the EPL requirements (refer to Appendix A.3). The biotreater effluent is the main discharge point, identified as EPA ID No.1 (Refer to Figure 2). This point was monitored monthly during the reporting period with pollutant concentrations well below the EPL limits as detailed in summary table 7 below. The average daily discharge flow at this point was 940 kL/day, with a maximum daily discharge volume recorded of 2,444 kL. The EPL volume limit at this discharge point is 4,000 kL/day. Water was not discharged from the other approved discharge points (EPL ID No. 2, 4 or 30).

Table 7: Summary of monitoring results for the main discharge point at Clyde Terminal (EP ID No.1)

Pollutant	Co	ncentration lim	its	Мо	nitoring resu	ılts
	50 percentile	90 percentile	100 percentile	min	ave	max
BOD (mg/L)	45	95	n/a	<5	<5	<5
Fluoride (mg/L)	25	40	n/a	0.89	1.34	2.10
Nitrogen (Ammonia)	6	30	n/a	<0.01	0.05	0.22
Oil and Grease (mg/L)	8	10	n/a	<5	<5	<5
ph			6.0-9.0	6.7	7.47	7.8
Phenols (mg/L)			0.5	<0.05	<0.05	<0.05
Total Nitrogen (mg/L)	35	100	n/a	0.6	5.70	10
Total Phosphorus (mg/L)	1.5	6	n/a	0.09	0.39	0.92
TSS (mg/L)	30	60	n/a	<5	6.42	19

Water discharge through approved flexible discharge points occurred twice during the reporting period. Water samples were taken and analysed prior to discharge with results well below the relevant EPL concentration limits with the maximum TSS levels detected at 18% of the EPL limit. Summary results for approved mobile discharge points are presented in Table 8 below.

Table 8: Summary of monitoring results for mobile discharge to water (EPA ID No. 25)

Pollutant	Concentration limits	Monitori	ing results
	100 percentile	05/09/17	12/12/17
рН	6.0 -9.0	7.1	7.1
Total Organic Carbon (mg/L)	100	4.6	6.8
Total Suspended Solids (mg/L)	50	<5	9

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Overflow events were recorded for the ex-Basell interceptors during March and June 2017 due to heavy rainfall. Rainfall was well above average in Sydney during March 2017, with several stations experiencing their wettest March on record. Rainfall was also above average across most of Sydney during June, most of the rain fell between 7 and 10 June, associated with a coastal trough and low pressure system (Bureau of Meteorology website).

A sample was taken for each overflow event in each of the ex-Basell interceptors with one exceedance of the EPL concentration limit for TSS (i.e. 80mg/L within 48 hours of rainfall event - Condition L3.5) recorded on the 01 March 2017 at the overflow point ID No.29 (Refer to Figure 2). This non-compliance was notified to the NSW EPA and NSW DPE, with further details included in the Clyde Terminal Annual Return submitted to NSW EPA on 5 September 2017. Summary results for the approved overflow discharge at the ex-Basell interceptors are presented in Table 9 below.

Table 9: Summary of monitoring results for overflow discharge to water (EP ID No.28 and 29)

Pollutant	Concentration limits	Monitoring results					
	100 percentile	EPA ID No.28			EPA ID No.29		
		min	ave	max	min	ave	max
рН		7.4	7.65	8.1	7.4	7.87	8.4
Total Organic Carbon (mg/L)		3	4.22	7.8	5.3	6.81	7.9
Total Suspended Solids (mg/L)	80 (within 48hrs of a rain event)	<5	8.67	17	<5	42.85	140

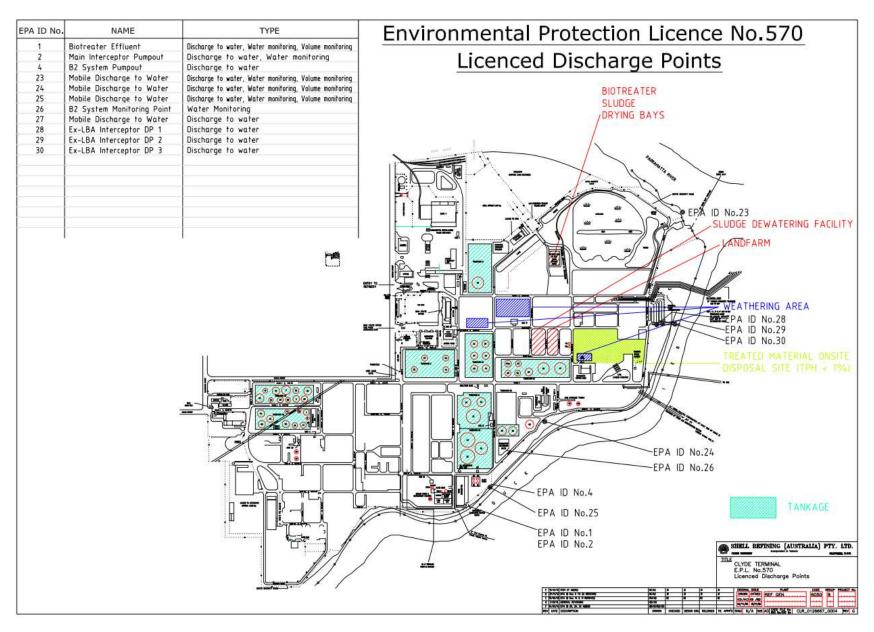


Figure 2 – Clyde Terminal Licensed Discharge Points

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6.4 Biodiversity

Construction biodiversity aspects are managed in accordance with the Biodiversity Management Plan. This plan was prepared to meet the requirements of condition C58 of the SSD 5147. In addition, the EPBC 2013/6878 approval requires Viva Energy to undertake the modification works in full accordance with, and implement, the Plan of Management: Restoration of Green and Golden Bell Frog (GGBF) Habitat, Clyde, October 2013 and Conservation of Green and Golden Bell Frogs, Shell Site, Clyde, 2013 (the Plans).

An Annual Compliance Report is required under approval condition 7 of the EPBC 2013/6878. The latest report covered the period 12 February 2017 to 11 February 2018 and is available on the Viva Energy website (https://www.vivaenergy.com.au/about-us/terminals-shipping/clyde/conversion-project).

In addition to the compliance status against each of the EPBC 2013/6878 conditions, the Annual Compliance Report also describes the progress on the Plans implementation during the reporting period. The main activities undertaken in 2017 included:

- Engagement of University of New South Wales Water Research Laboratory (WRL) to develop a water balance of the Wetlands
- Wetland management workshop with representatives of Viva Energy's wetland management consultant (Urban Bushland Management, UBM) and WRL to critically review the approved Plans
- Engagement of WRL as Principal Consultant for the revision of the conceptual design of the GGBF habitat
 restoration works in partnership with GGBF specialist from University of Newcastle (UoN) and UBM. The
 revised design will be adopted only if it would result in an equivalent or improved environmental outcome over
 time as requested by Condition 9 of the EPBC 2013/6878.

Wetland maintenance activities have continued throughout the reporting period and are also detailed in the EPBC Annual Compliance Report.

6.5 Waste

Construction wastes are managed in accordance with the Waste and Resource Recovery Management Plan. This plan was prepared to meet the requirements of condition C57 of the SSD 5147. The EMM lists the relevant waste management measures for Operations.

Waste generation and disposal continued to be tracked in accordance with NSW EPA requirements during the reporting period. A waste tracking audit was undertaken by an independent environmental consultant on the 18 July 2017 for quarters 1 and 2 of the reporting period. The auditor found that waste records were well maintained and easy to locate. Three actions and recommendations were identified, all of which were actioned and closed following the audit.

During the reporting period, construction and operation activities at Clyde Terminal generated approximately 3,113.48 tonnes of solid and liquid wastes, which was a significant decrease from the previous year's result of 18,549 tonnes, mainly related to the completion of demolition activities. Approximately, 80% of this waste is subject to chemical or physical treatment prior disposal, 9% is recycled and 11% is sent to landfill.

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No asbestos waste was generated during the reporting period.

7 Community

Viva Energy operates its 24-hour hotline telephone number 02 9897 8704 to receive feedback and complaints associated with the Development. Responses to complaints, where reasonably possible, are made within 48 hours of receiving the complaint.

In addition to the 24-hour hotline telephone number, a postal address and an email address to receive general enquiries associated with the works are as follows:

Email: On-line feedback form on www.vivaenergy.com.au/terminals---locations/clyde/community

Postal: External Communications PO BOX 872 K. Melbourne 3001

No community complaints were received during the reporting period.

8 Independent audit

No Independent Environmental Audit (IEA) required under condition D7 of the development consent was undertaken during the reporting period.

The latest IEA was completed in May 2018 and will be covered in detail in the next reporting period.

9 Incidents and non-compliances during the reporting period

No reportable incidents occurred during the reporting period.

One non-compliance was identified on 01 March 2017 with one of the approved overflow discharges to Duck Creek resulting in a TSS level exceeding the approved concentration limit. The details of this non-compliance are explained in Section 6.3 above. Additional sediment control and drain cleaning works were undertaken in response to this non-compliance and are considered to have satisfactorily addressed the cause of the TSS exceedance.

A penalty notice was issued to Viva Energy by the NSW EPA on 19 June 2017 in relation to the discharge of dust suppressant wash water to Duck River on 4 November 2016. Details of this incident were included in previous NSW EPA and DPE Annual Reports.

10 Activities to be completed in the next reporting period

The Waste Tracking audit undertaken in February 2018 by an independent environmental consultant identified a number of actions and recommendations, majority of which has been addressed and completed. As part of this process, an internal training on Waste Management was provided to key Construction and Operations personnel with further actions identified to improve waste management practices at Clyde. These actions will be implemented in the next reporting period and include:

- Implement security measures to avoid entry of third parties waste on site and raise waste segregation awareness
- Develop waste management prescriptive process to be referred to in EMM, including waste streams and classification, classification guidelines, waste tracking and weight estimates guidelines
- Investigate the option of engaging a Waste Agent for relevant waste streams and define waste tracking assurance procedures

Additionally, actions resulting from the latest IEA undertaken in March 2018 will be addressed and reported in the next reporting period.

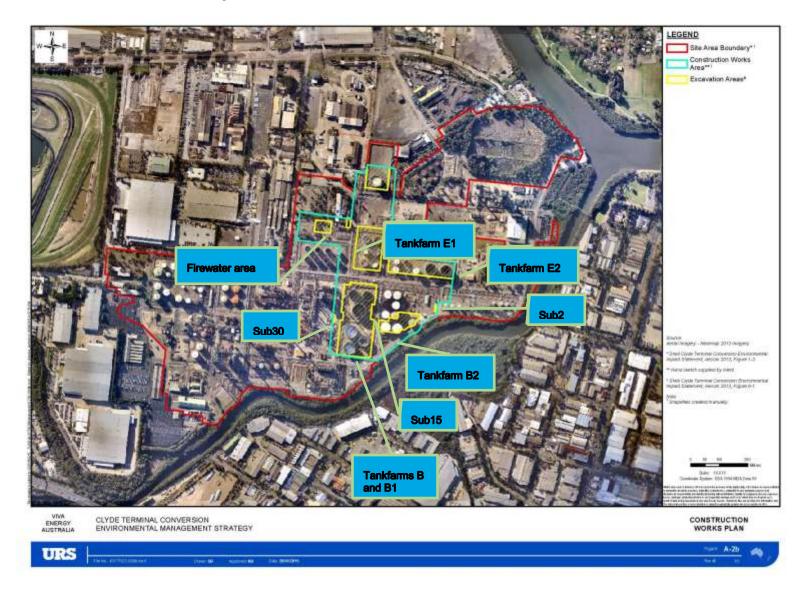
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Appendix A

- A.1 Figure A.1 Construction works plan
- A.2 Annual Environmental Performance Review (1 January to 31 December 2016) approval letter
- A.3 Surface water discharge monitoring results
- A.4 VENM Certificate for imported sandstone

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A.1 Figure A.1 Construction works plan



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A2. Annual Environmental Performance Review (1 January to 31 December 2016) approval letter



Contact: Chase Dingle Phone: 9274 6403

Email: chase.dingle@planning.nsw.gov.au

compliance@planning.nsw.gov.au

Our ref: SSD 5147

Mr Adam Speers Viva Energy Australia Pty Ltd Level 31 (Suite 2), Governor Macquarie Tower 1 Farrer Place Sydney NSW 2000

28 August 2017

Dear Mr Speers,

Clyde Terminal (SSD 5147) Annual Environmental Performance Review (1 January to 31 December 2016)

I refer to your submission, which is dated 31 July 2017, of the document *Annual Environmental Performance Review* (the "report"), prepared in accordance with Schedule D, Condition D4 of SSD 5147 (the "consent") for the Clyde Terminal (the "project").

The Department has reviewed the report and considers it to generally satisfy the requirement of the consent in relation to the Annual Environmental Performance Review. Approval of this report is not an endorsement of the compliance status of the project.

In future reporting, you may find the structure outlined in the Department's Annual Review Guideline useful. A copy of this can be found at the following link: http://www.planning.nsw.gov.au/Policy-and-Legislation/Mining-and-Resources/~/media/3AA21D35168042FE813DD0FB92E00E58.ashx

Should you need to discuss the above, please contact Chase Dingle as per the details provided above.

Yours sincerely

Chase Dingle

Team Leader - Compliance

A.3 Surface water discharge monitoring results

Pollutant	Biochemical	Fluoride	Nitrogen	Oil and	На	Phenols	Total	Total	Petroleun	n Hvdroca	arbons	Total	Total
	Oxygen Demand (BOD)		(Ammonia)	Grease	P		Nitrogen	1000				Phosphorus	Suspended Solids
Licence Limit	45/95 (50%/90%)	25/40 (50%/90%)	6/30 (50%/90%)	8/10 (50%/90%)	6-9	0.5	35/100 (50%/90%)	C6-C9	C10-C14	C15-C28	C29-C36	1.5/6 (50%/90%)	30/60 (50%/90%)
Units of Measure	mg/L	mg/L	mg/L	mg/L	units	mg/L	mg/L		uç	g/L		mg/L	mg/L
Freq. as per EPL	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly		Moi	nthly		Monthly	Monthly
5/01/2017	<5	1.4	<0.01	<5	7.7	<0.05	2.5	<0.04	0.084	0.68	0.42	0.26	<5
2/02/2017	<5	1.3	0.01	<5	7.3	<0.05	5.1	<0.04	< 0.05	<0.2	<0.2	0.52	<5
2/03/2017	<5	0.89	0.05	<5	7.5	<0.05	1.36	<0.2	<0.05	<0.2	<0.2	0.33	<5
5/04/2017	<5	0.9	<0.01	<5	7.8	<0.05	0.6	<0.04	< 0.05	<0.2	<0.2	0.19	<5
4/05/2017	<5	1.2	0.07	<5	7.5	<0.05	2.4	<0.04	< 0.05	<0.2	<0.2	0.53	8
1/06/2017	<5	1.7	0.22	<5	7.6	< 0.05	3.4	<0.04	< 0.05	<0.2	<0.2	0.18	<5
6/07/2017	<5	1	0.02	<5	7.6	<0.05	1.3	<0.04	<0.05	<0.2	<0.2	0.34	19
3/08/2017	<5	1.1	0.03	<5	7.8	<0.05	4.5	<0.04	<0.05	<0.2	<0.2	0.09	<5
7/09/2017	<5	1.1	0.02	<5	6.7	<0.05	3.5	<0.04	< 0.05	<0.2	<0.2	0.92	<5
5/10/2017	<5	1.5	0.03	<5	7.3	<0.05	6.8	<0.04	< 0.05	<0.2	<0.2	0.67	<5
2/11/2017	<5	2.1	0.08	<5	7.7	<0.05	2.7	<0.04	< 0.05	<0.2	<0.2	0.38	5
14/12/2017	<5	1.9	0.02	<5	7.1	< 0.05	10	< 0.04	< 0.05	< 0.2	<0.2	0.27	<5

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EPA ID No.2 – Main Interc	eptor Pumpout			
Pollutant	рН	Phenols	Total Organic Carbon	Total Suspended Solids
Licence Limit	6.0-9.0	0.5	100	50
Units of Measure	units	mg/L	mg/L	mg/L
Frequency as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging
January 2017			No discharge	
February 2017			No discharge	
March 2017			No discharge	
April 2017			No discharge	
May 2017			No discharge	
June 2017			No discharge	
July 2017			No discharge	
August 2017			No discharge	
September 2017			No discharge	
October 2017			No discharge	
November 2017			No discharge	
December 2017			No discharge	

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EPA ID No. 4 - B2 S	system Pump out				
Pollutant	рН	PhenoIs	Total Organic Carbon	Total Suspended Solids	Total Petroleum Hydrocarbons
Licence Limit	6.0-9.0	0.5	100	50	n/a
Units of Measure	units	mg/L	mg/L	mg/L	μg/L
Frequency as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging
January 2017				No discharge	
February 2017				No discharge	
March 2017				No discharge	
April 2017				No discharge	
May 2017				No discharge	
June 2017				No discharge	
July 2017				No discharge	
August 2017				No discharge	
September 2017				No discharge	
October 2017				No discharge	
November 2017				No discharge	
December 2017				No discharge	

EPA ID No.23, 24, 25, 27 – Fle	exible discharge outlets		
Pollutant	рН	Total Organic Carbon	Total Suspended Solids
Licence Limit	6.0-9.0	100	50
Units of Measure	units	mg/L	mg/L
Frequency as per EPL	<24 hrs prior to discharge	<24 hrs prior to discharge	<24 hrs prior to discharge
January 2017		No discharge	
February 2017		No discharge	
March 2017		No discharge	
April 2017		No discharge	
May 2017		No discharge	
June 2017		No discharge	
July 2017		No discharge	
August 2017		No discharge	
05/09/2017 (EPA ID No.25)	7.1	4.6	<5
October 2017		No discharge	
November 2017		No discharge	
12/12/2017 (EPA ID No.25)	7.1	6.8	9

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Pollutant	рН	Phenols	Total Organic Carbon	Total Suspended Solids	Total Petroleum Hydrocarbons			
					C6-C9	C10-C14	C15-C28	C29-C36
Units of Measure	рН	mg/L	mg/L	mg/L			ug/L	
Freq. as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging		M	onthly	
January 2017		-		No discharge	_			
8/02/2017	7.3	<0.05	10	34	<40	89	1700	<200
27/02/2017	7.1	<0.05	6.6	49	<40	1300	1300	<200
28/02/2017	7.2	<0.05	7.1	14	<40	1100	1100	<200
1/03/2017	7.1	<0.05	5.6	33	<40	<50	250	<200
2/03/2017	8.9	<0.05	5.4	22	<40	<50	<200	<200
3/03/2017	7.4	<0.05	6.5	29	<40	<50	220	<200
4/03/2017	7.3	<0.05	8.1	23	<200	<50	<200	<200
5/03/2017	7.3	< 0.05	7.2	11	<200	<50	<200	<200
6/03/2017	7.3	<0.05	9.6	<5	<40	<50	2500	<200
16/03/2017	7.7	<0.05	7.9	12	<40	<50	270	<200
18/03/2017	7.4	<0.05	6	18	<40	<50	420	<200
19/03/2017	7.4	<0.05	6.4	7	<40	<50	<200	<200
22/03/2017	7.6	<0.05	7.2	59	<40	<50	440	<200
23/03/2017	7.5	<0.05	5.1	21	<40	<50	270	<200
April 2017				No discharge	•			
19/05/2017	7.5	<0.05	4	21	<40	<50	280	<200
7/06/2017	8	<0.05	4.3	55	84	160	270	<200
8/06/2017	7.8	<0.05	4	26	<40	<50	<200	<200
July 2017		-		No discharge	<u>'</u>		1	
August 2017				No discharge				
September 2017				No discharge				
October 2017				No discharge				
November 2017				No discharge				
December 2017				No discharge				

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Pollutant	рН	Oil and Grease	Total Organic Carbon	Total Suspended Solids
Licence Limit				80 (within 48hrs of rain event)
Units of Measure	units	mg/L	mg/L	mg/L
Frequency	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging
January 2017			No discharge	
February 2017			No discharge	
18/03/2017	8.1	n/a	7.8	17
19/03/2017	7.5	n/a	3.3	<5
20/03/2017	7.6	n/a	3.4	<5
22/03/2017	7.4	n/a	4.3	9
April 2017	'		No discharge	,
May 2017			No discharge	
5/06/2016	7.8	n/a	3.5	6
19/06/2016	7.5	n/a	3	10
July 2017	<u>'</u>		No discharge	•
August 2017			No discharge	
September 2017			No discharge	
October 2017			No discharge	
November 2017			No discharge	
December 2017			No discharge	

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EPA ID No. 29 – Basell Inte	erceptor overflow		
Pollutant	рН	Total Organic Carbon	Total Suspended Solids
Licence Limit			80 (within 48hrs of rain event)
Units of Measure	units	mg/L	mg/L
Frequency as per EPL	Daily when discharging	Daily when discharging	Daily when discharging
January 2017		No discharge	
27/02/2017	7.7	7.3	64
28/02/2017	7.8	7.7	24
1/03/2017	7.4	6	140
2/03/2017	8.4	6.1	68
3/03/2017	7.8	6.4	36
4/03/2017	7.9	8	50
5/03/2017	7.9	6.6	49
18/03/2017	8.1	7.9	20
19/03/2017	7.9	7.2	15
20/03/2017	7.9	6.8	<5
22/03/2017	7.8	7.4	10
April 2017		No discharge	
May 2017		No discharge	
8/06/2017	7.8	5.3	39
9/06/2017	7.9	5.8	37
July 2017		No discharge	
August 2017		No discharge	
September 2017		No discharge	
October 2017		No discharge	
November 2017		No discharge	
December 2017		No discharge	

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EPA ID No.30 – LBL Interce	eptor			
Pollutant	рН	Oil and Grease	Total Organic Carbon	Total Suspended Solids
Licence Limit	6.0-9.0	10	100	50
Units of Measure	units	mg/L	mg/L	mg/L
Frequency as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging
January 2017			No discharge	
February 2017			No discharge	
March 2017			No discharge	
April 2017			No discharge	
May 2017			No discharge	
June 2017			No discharge	
July 2017			No discharge	
August 2017			No discharge	
September 2017			No discharge	
October 2017			No discharge	
November 2017			No discharge	
December 2017			No discharge	

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A.4 VENM Certificate for imported sandstone

WASTE CLASSIFICATION CERTIFICATE

El Document Ref: E23269_AA_WCC083_Rev0



CUENT Details:				Project Man	w: Waste Classi	Scation Certificate
LOCATION:	Chaloute Ply Ltd				se: Bulk Excavals	
LOCATION:	Office 1, 54-56 Ha CONDELL PARK				et: Mr. Michael A Nr. 66-February-2	
		-	_	2550 M. 2500	Maria Caracteria	
Sae Address:	64-95 Cook Road.	CENTENNIAL PARK	M\$W 2021	LOCIDE	Lot 1	
					DP 627602	
LGA: Current Zoning	Council of the City R1 - General Resi			Site Map Atlached	Yes	
Site History	pholograph (Sixme	(ps) indicated that the	site was occup	ied by the same or	amiar dwellings.	buildings. A review the 1943 asnat
Surrounding land use	The immediated to awas within the vi-		e séa consisted	of predominantly re	sidential in saluro	with recreational and special purpose
Proposed sile use		ew residential develo	prent with a d	ouble level basemen	t of up to 6.0m in	
ACID SULFATE SOLS	Chepth.	ited in an acid sulfate	role releases			
RISKS:	(165 SHD 15 HOUTINGS	IND ALSO SEND STREET	SURC YES BICK			
MATERIAL SOURCE	in-situ natural mak development for th		es part of the pr	raposed 6.0m deep o	louble basement	proposed as part of a new residential
MATERIAL CHARACTERIS		n 2005				
Malerial Description	production and the contract of	remely weathered, ye	flow, with crang	e and red, dry, no o	four.	
		west-cresspossific		manage value (1938)	00000	
Material Identification	Soil samples collec					
	(TP1-TP6) located identified in Figure	around the site, as	1000	end or	25 m3/sem-1	
	nestried to rigure	-	Volu		20 m3 (approx.)	
			Tonna	iθε: 51	16 Tonnes (appr	
Sampling Procedure	Day versely	A	12110000000000000000000000000000000000	and the second		sken as 1.8 Vm3 for clay (Look, 2014) of engineer / scientist in identifying
	were collected usin	ng dedicated nitrite gio	wes no deconfu	emination of samplin	g equipment was	required
Tested Sample(s): ³ (applicable only)	TP1_0.3-0.4 TP2_0.4-0.5 TP3_0.7-0.8, TP4_0.7-0.8, TP5_0.3-0.4, TP6_0.7-0.8, and GD1					
Sampling Date:	27/01/2017		Sample Nos:	8		
Primary Laboratory:		GS. Alexandria NSW		9		
Secondary Laboratory:						
COLD THE PROPERTY OF THE PARTY	ation steps					
	3016.00-00-0	Modern		de CO		
Step 1 - Visual evidence Spe	scial Waste	Yes		No	Đ	
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w	scial Waste vaste	Yes		No	83	
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pve-cta	scial Waste raste saifed	Yes Yes		1000	Ø:	VENM
50sp 1 - Visual evidence Spe 50sp 2 - Is the waste liquid w 50sp 3 - Is the waste Pre-cla 50sp 4 - Ane hacardous subst	ecial Waste raste saified tances present	Yes Yes Yes		No No No	50 C) S)	VERM
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla Step 4 - Are hazardous subst Step 5 - Is chemical assessm	ecial Waste vaste saifed tances present nent required	Yes Yes Yes Yes	9 0	No No	D 00	
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla Step 4 - Are hazardous subst Step 5 - Is chemical assessm	ecial Waste raste saified tances present	Yes Yes Yes Yes		No No No	EII EII Note: Only day	to for above-listed samples tested are
EPA (2014) Waste classifica Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste liquid w Step 4 - Are hozardous subs Step 5 - Is chamical assessor Analy	icial Waste raste saified tances present nent required ricial Data Attached	Yes Yes Yes Yes Yes	08080	No No No No	E) E) Note: Only day representative	ia for above-listed samples tested are of classified material
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla Step 4 - Are hozardous subsi Step 5 - Is chemical assessor Analy MATERIAL SUITABILITY FI	scal Waste raste stiffed tances present hent required ricel Data Attached OR BENEFICIAL Of rail meets Site Acce	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT:	08080	No No No No	E) E) Note: Only day representative	ia for above-listed samples tested are of classified material
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla Step 4 - Are hecardous subsi Step 5 - Is chamical assessor Analy ************************************	scal Waste raste saffed tances present hent required ricel Data Attached OR BENEFICIAL O	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria * of nat Access to Solis	08080	No No No No	E) E) Note: Only day representative	ia for above-listed samples tested are of classified material
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla- step 4 - Are hexardous subsi- step 5 - Is chamical assessor Analy LATERIAL SUITABILITY FI Mate	scal Waste raste stiffed tances present hent required ricel Data Attached OR BENEFICIAL Of rail meets Site Acce	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT:	08080	No No No No OAD, CENTENNIA	Note: Only day representative	ia for above-listed samples tested are of classified material
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid witten 3 - Is the waste Pre-cts Step 4 - Are hozardous subsistep 5 - Is chemical assessor Analy MATERIAL SUITABILITY FOR Material SUITABILITY FOR	scial Waste ratte as find tances present finds Data Altached OR BEMEFICIAL Of tall meets Site Acces esidential with Minin	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria * of nat Access to Solis	08080	No No No No OAD, CENTENNIA	Note: Only day representative	ia for above-listed samples tested are of classified material
itep 1 - Visual evidence Spe itep 2 - Is the waste liquid witep 3 - Is the waste Pre-cts itep 4 - Are hozardous substitep 5 - Is chemical assessing Analy Materials SUITABILITY FI Materials SUITABILITY FI	scial Waste ratte as find tances present finds Data Altached OR BEMEFICIAL Of tall meets Site Acces esidential with Minin	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria * of nat Access to Solis	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No No No No No No No Yes Ø	Note: Only day representative PARK NSW 202	to for above-listed samples tested are of classified meterial 21
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid w Step 3 - Is the waste Pre-cla- Itep 4 - Are hecardous subsi- step 5 - Is chamical assessor Analy Material: SUITABILITY FO Material: S	scial Waste raste seried tenose present nent required ricos Data Attached OR BEMEFICIAL O rist meets Site Acce residential with Mine SITE DISPOSAL	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria * of nat Access to Solis	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No N	Note: Only day representative PARK NSW 202	to for above-listed samples tested are of classified meterial 21
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid witten 3 - Is the waste Pre-cts Step 4 - Are hozardous subsistep 5 - Is chemical assessor Analy MATERIAL SUITABILITY FOR Material SUITABILITY FOR	scial Waste raste selfinol tances present tances present rent required ricel Data Attached OR BEMEFICIAL O Trail meets Site Acce esidential with Mine F-SITE DISPOSAL Assessed class.	Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria * of nat Access to Solis	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No N	Note: Only day representative PARK NSW 20:	to for above-listed samples tested are of classified meterial 21
itep 1 - Visual evidence Spe itep 2 - Is the waste liquid witep 3 - Is the waste Pre-da- itep 4 - Are hozardous substitup 5 - Is chamical assessor Analy Material Sulfability Fit Material Sulfability Fit Research Cassification 5	scial Waste ratte et Find tances present tances present find of Data Attached OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O Find media Attached Assessed diasa Special Wister Scheduled Waster Scheduled Waster	Yes Yes Yes Yes Yes Yes Yes On AT: NSITE RE-USE AT: plance Crierie 4 of Comment	E SA-46 COOK R	No N	Note: Only day representative PARK NSW 20; No TURAL MATERI pplicable NO	to for above-listed samples tested are of classified material 21. AL (VENIN) **
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Step 1 - Visual evidence Spe Step 2 - Is the waste liquid witten 3 - Is the waste liquid witten 3 - Is the waste liquid witten 5 - Is chamical assessor Analy MATERIAL SUITABILITY FF Material Analy CLASSIFICATION FOR OFF	scial Waste ratte et Find tances present tances present find of Data Attached OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O Find media Attached Assessed diasa Special Wister Scheduled Waster Scheduled Waster	Yes Yes Yes Yes Yes Yes Yes Yes Yes One Criteria for Access to Solis Comment The material deliver above This classification is topsoil / Milmalerial. Suitable for disposal	VIRGI Wingi ed must be con only applicable Classification of at facility licen	No N	Note: Only day representative PARK NSW 20; No TURAL MATERI pplicable NO ription given in M. I bedrock materia is included on a	is for above-listed samples tested are of classified material in a control of classified material in a control of classified material in a control of cont
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid witten 3 - Is the waste Pre-clas Step 4 - Are hozardous subsistep 5 - Is chemical assessor Analy MATERIAL SUITABILITY FF Material SUITABILITY FF Waste Classification ⁵ Classification Comments	scial Waste ratte et Find tances present tances present find of Data Attached OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O Find media Attached Assessed diasa Special Wister Scheduled Waster Scheduled Waster	Yes Yes Yes Yes Yes Yes Yes Yes On The RE-USE AT: Comment The material deliver above This describation is topsoil / Milmaterial.	VIRGI Wingi ed must be con only applicable Classification of at facility licen	No N	Note: Only day representative PARK NSW 20; No TURAL MATERI pplicable NO ription given in M. I bedrock materia is included on a	in for above-listed samples tested are of classified material AL (VEHIN) * Material Characterisation section. I and DOES NOT include any overlyin
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Step 1 - Visual evidence Spe Step 2 - Is the waste liquid wistep 3 - Is the waste liquid wistep 3 - Is the waste liquid wistep 5 - Is chamical assessment Analy MATERIAL SUITABILITY FF Material Suitability FF Material Suitability FF Waste Classification 5 Classification Comments	scial Waste ratte et Find tances present tances present find of Data Attached OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O OR BEMEFICIAL O Find media Attached Assessed diasa Special Wister Scheduled Waster Scheduled Waster	Yes Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria 4 of nat Access to Solis Comment. The material deliver above. This describention is topical / Milmalerial. Suitable for deposal	VIRGI Wingi ed must be con only applicable Classification of at facility licen	No N	Note: Only dar representative PARK NSW 20: No TURAL MATERI applicable NO replion given in M I bedrock materia is included on a	is for above-listed samples tested are of classified material AL (VENIN) ** 6 Material Characterisation section. I and <u>DOES NOT</u> include any overlying separate classification certificate.
Step 1 - Visual evidence Spe Step 2 - Is the waste liquid wistep 3 - Is the waste liquid wistep 3 - Is the waste liquid wistep 5 - Is chamical assessment Analy MATERIAL SUITABILITY FF Material Suitability FF Material Suitability FF Waste Classification 5 Classification Comments	scial Waste ratite selfied lances present ficed Data Altached Fisher Ficed Data Assessed Class Special Waster Scheduled Waster	Yes Yes Yes Yes Yes Yes Yes NSITE RE-USE AT: plance Criteria 4 of nat Access to Solis Comment. The material deliver above. This describention is topical / Milmalerial. Suitable for deposal	VIRGI Wingi ed must be con only applicable Classification of at facility licen	No N	Note: Only dar representative PARK NSW 20: No TURAL MATERI pplicable NO riplion given in the	is for above-listed samples tested are of classified material. AL (VENIN) ** 6 Material Characterisation section. I and <u>DOES NOT</u> include any overlying separate classification certificate.
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