

Clyde Terminal

Annual Environmental Performance Review

Reporting Period: 01 January to 31 December 2024

Contents

1	Introduction.....	3
2	Approvals.....	5
3	Development activities.....	5
3.1	Works undertaken during this reporting period.....	5
3.1.1	Demolition works.....	5
3.1.2	Construction works	5
3.1.3	Operations	5
3.2	Proposed works for the next reporting period	6
3.2.1	Demolition works.....	6
3.2.2	Construction works	6
3.2.3	Operations	6
4	Environmental performance	6
4.1	Noise	6
4.2	Air	6
4.3	Soil and water.....	6
4.4	Groundwater.....	9
4.5	Biodiversity.....	9
4.6	Waste	10
5	Incidents and non-compliances during the reporting period	10
6	Actions required from previous Annual Review	10
7	Measures to improve the environmental performance	10
Appendix A	11
A.1	2021 Annual Environmental Performance Report – DPE review letter.....	12
A.2	Surface water discharge monitoring results	13
A.3	Summary of Clyde Terminal Groundwater Conditions (Q4 2022).....	21

1 Introduction

Viva Energy Australia Pty Ltd (Viva Energy) operate 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; and,
- **Operation** – The operation of the site as a bulk fuel storage facility.

The main objectives of the conversion project were:

- 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 Viva Energy's Gore Bay Port Facility. These products are distributed by pipeline from the Clyde Terminal to the adjacent Parramatta Terminal road gantry and to Sydney Airport.

A large part of the former Refinery land in the south-western part of the Clyde Terminal is considered surplus to the terminal's operational requirements and is currently subject to remediation activities. This area is known as the Western Area (Figure 1) and will be remediated to a standard suitable for future commercial/industrial land uses. The Western Area Remediation Project (WARP) was designated state significant development due to the scale of the proposed works and an Environmental Impact Statement (EIS) was prepared. On 7 May 2020, The Minister for Planning and Places approved the development application (SSD 9302) for the Clyde WARP.

The Clyde Terminal site and the Western Area are shown in Figure 1 below.

The content of this Annual Review meets the requirements of SSD 5147 condition D4. Table 1 below lists the requirements and the corresponding sections where each specific requirement is addressed.

Table 1: 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 3
(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: <ul style="list-style-type: none">• the relevant statutory requirements, limits or performance measures/criteria;• the monitoring results of previous years; and• the relevant predictions in the EIS;	Section 4
(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Sections 5
(d) identify any trends in the monitoring data over the life of the Development;	Section 4
(e) identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and	Section 4
(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the Development.	Section 10

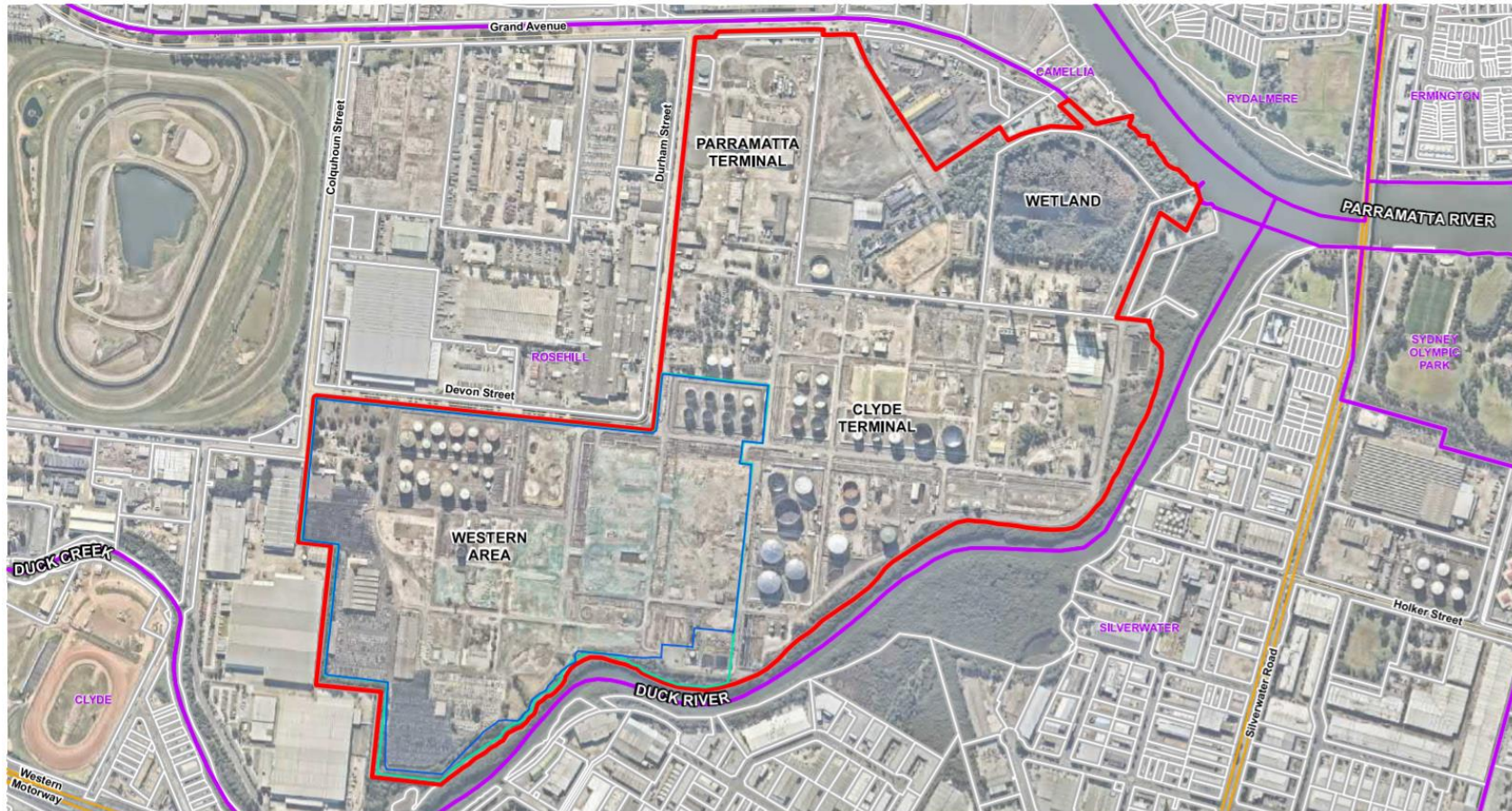


FIGURE 2-1 SITE FEATURES

KEY

- Site boundary
- Project Area boundary
- Western Area boundary
- Suburb boundaries
- Lot boundaries
- State road
- Local road

Note: Project Area boundary along the southern border is indicative only and will be refined during detailed design to exclude the tree management zone.



Figure 1 – Clyde Terminal and Western Area

2 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”.
 - On 29 July 2019, the Industry Assessments Director (as delegate of the Minister for Planning and Public Spaces) approved a Modification of Development Consent (SSD 5147 MOD 1) to allow for one year extension on construction period; six additional assets to be demolished; the retention of two storage tanks initially nominated for demolition; and, general updates of the development consent.
- 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:

- Environment Protection Licence (EPL) No. 570 under the Protection of Environment Operations Act 1997 (POEO Act).
- Major Hazards Facility (MHF) Licence (licence no. 20-35-81, expiry 15 Jan 2028) under the Work Health and Safety Act 2011 (WH&S Act)

3 Development activities

This Section describes the works undertaken in accordance with Development Consent SSD 5147 during the reporting period (1 January to 31 December 2024).

3.1 Works undertaken during this reporting period

3.1.1 Demolition works

With the exception of Tank T52, all demolition works approved by SSD-5147 and SSD-5147 MOD 1 had been completed at the time of writing this report. Demolition of T52 has been delayed and these works are still pending.

3.1.2 Construction works

No construction works were executed during the reporting period. Construction consent expired on 14 January 2020 in accordance with Condition B6 of the SSD 5147 MOD 1.

3.1.3 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. Products were stored in compliance with the limits prescribed in condition B5 of the SSD 5147 (refer to Table 2 below). Products were distributed by pipeline from the Clyde Terminal to the adjacent Parramatta Terminal road gantry and to Sydney Airport.

Table 2: Operations summary

Product	Approved limit	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Finished petroleum products (ML)	264	181	189	200
Petroleum gases (m ³)	1,550	0	0	0

3.2 Proposed works for the next reporting period

3.2.1 Demolition works

Tank T52 is the remaining item of infrastructure approved for demolition in SSD-5147 and SSD-5147 MOD 1. The removal of residues from T52 is required before it can be deconstructed and this process has been delayed due to safety considerations identified in relation to the tanks roof integrity. These works are currently not scheduled for 2025.

3.2.2 Construction works

All construction works approved by SSD-5147 and SSD-5147 MOD 1 had been completed at the time of writing this report and the construction consent has lapsed in accordance with Condition B6 of the SSD 5147 MOD 1.

There are no additional works proposed for next year.

3.2.3 Operations

Operational activities during the next reporting period will be consistent with those described on section 3.1.3 above.

4 Environmental performance

4.1 Noise

During the reporting period, noise at Clyde was managed in accordance with the Environmental Management Manual (EMM) and the operating conditions listed in C24 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.

The above-described performance is consistent with results from previous years.

4.2 Air

During the reporting period, air emissions were managed in accordance with the EMM and the approved Operational Air Quality Monitoring Program (OAQMP) under condition C30 of the SSD 5147. During the reporting period, visual monitoring for dust was undertaken during routine site activities. No observations of dusty conditions were recorded. No air quality complaints were received during this or previous reporting periods.

The OAQMP is present on the Viva Energy website in accordance with condition D9.

Low levels of odour were observed and recorded during regular site surveillance. Potential for odour generation during regular activities was also assessed routine Job Start meetings. Potential for odour generation during non-routine activities were assessed and managed in accordance with Viva Energy's Permit to Work system. No offensive odours were identified in these assessments, consistent with results from the previous reporting period.

Emissions from the storage tanks are estimated using the techniques in line with the National Pollutant Inventory (NPI) reporting process and reported as part of the annual NPI submission and the NSW EPA Annual Return required under EPL 570 for the period 02 July to 01 July. The assessment of annual air emissions for 2023/2024 was calculated to be 264kg of Benzene and 50,457kg of Volatile Organic Compounds (VOC's) discharged to air, well below the EPL load limits of 26,000kg and 1,250,000kg, respectively. The 2024/2025 annual emissions will be calculated and reported to the NSW EPA by 30 August 2025.

4.3 Soil and water

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.2). The main discharge point for site stormwater to Duck River is identified as EPA ID No.1 (Refer to Figure 3). This point was monitored monthly during the reporting period with pollutant concentrations well below the EPL limits as detailed in summary Table 3 below. Results are comparable to those presented in the previous reporting period.

The average daily discharge flow at this point was 661 kL/day, with a maximum daily discharge volume recorded of 1,012 kL. The EPL volume limit at this discharge point is 4,000 kL/day. Water was not discharged from the other approved discharge points (EPA ID No. 2, 4 or 30).

Table 3: Summary of monitoring results for the main discharge point at Clyde Terminal (EPA ID No.1)

Pollutant	Concentration limits			Monitoring results		
	50 percentile	90 percentile	100 percentile	min	ave	max
BOD (mg/L)	45	95	n/a	<5	<5	9
Fluoride (mg/L)	25	40	n/a	0.42	0.73	1.2
Nitrogen (Ammonia)	6	30	n/a	0.04	0.18	0.73
Oil and Grease (mg/L)	8	10	n/a	<5	<5	<5
ph			6.0-9.0	6.7	7.4	7.9
Phenols (mg/L)			0.5	<0.05	<0.05	<0.05
Total Nitrogen (mg/L)	35	100	n/a	0.42	0.99	2.2
Total Phosphorus (mg/L)	1.5	6	n/a	0.02	0.09	0.20
TSS (mg/L)	30	60	n/a	<5	<5	14

Water discharge through approved flexible discharge points did not occur during the reporting period. Accordingly, no sampling was undertaken at these discharge points.

Overflow events were recorded for the East Interceptors bays during the months of January, February, April, May and June due to heavy rainfall events.

Samples were taken daily during overflow conditions for the East Interceptors. Summary results for the overflow discharge at the East Interceptors are presented in Table 4 below.

Table 4: Summary of monitoring results for overflow discharge to water (EPA ID No.28 and 29)

Pollutant	Concentration limits	Monitoring results					
	No concentration limits	EPA ID No.28			EPA ID No.29		
		min	ave	max	min	ave	max
pH	n/a	7.0	7.7	8.0	7.2	7.8	8.2
Total Organic Carbon (mg/L)	n/a	1.9	2.9	4.1	3.0	4.6	6.2
Total Suspended Solids (mg/L)	n/a	5	18	37	<5	15	39

EPA ID No.	NAME	TYPE
1	Biotreater Effluent	Discharge to water, Water monitoring, Volume monitoring
2	Main Interceptor Pumpout	Discharge to water, Water monitoring
4	B2 System Pumpout	Discharge to water
25	Mobile Discharge to Water	Discharge to water, Water monitoring, Volume monitoring
26	B2 System Pumpout Monitoring Point	Water Monitoring
28	East Interceptor Bay 1/2 O/F	Discharge to water
29	East Interceptor Bay 3/4 O/F	Discharge to water
30	East Interceptor Pumpout	Discharge to water

Environmental Protection Licence No.570

Licensed Discharge Points

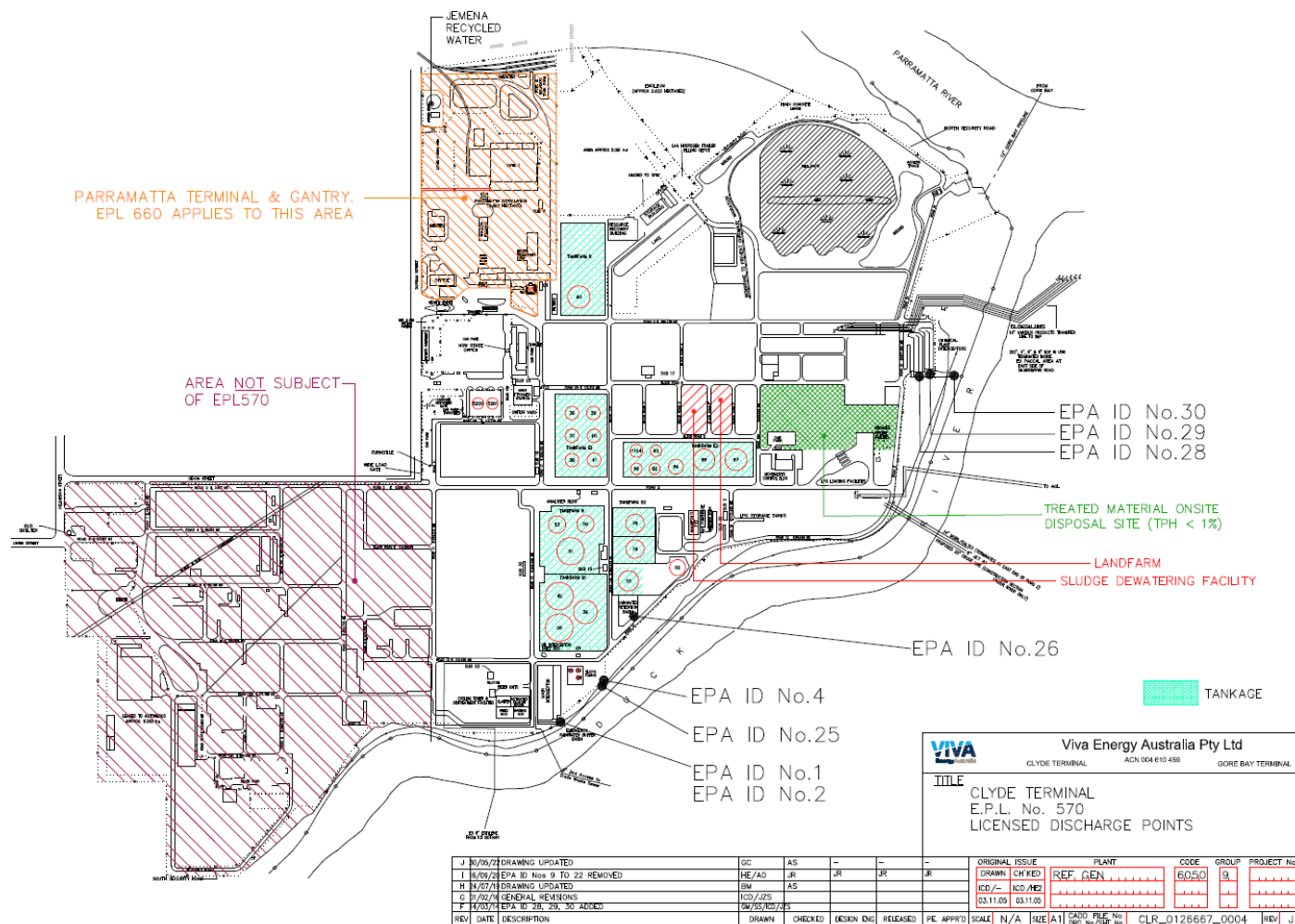


Figure 3 – Clyde Terminal licensed discharge points

4.4 Groundwater

Groundwater monitoring was undertaken by Environmental Resources Management Pty Ltd (ERM) on the Clyde Terminal and the Clyde Western Area in December 2024. This monitoring was undertaken in accordance with the requirements of the EMM and the Site's Environment Protection Licence (EPL570).

These results were documented in the following reports:

- "Clyde Terminal – Quarter 4 (2024) Groundwater Monitoring Report", prepared by ERM and dated 28 March 2025; and,
- "Clyde Terminal – Annual Progress Report (2024)", prepared by ERM and dated 27 March 2025

Groundwater results are considered to be generally consistent with previous years and the following was noted by ERM regarding groundwater conditions;

- The direction of groundwater flow is generally consistent with previous GMEs undertaken and flows to the southeast and east towards the bounding Duck River. Within the northern sections of the Site groundwater flows to the northeast towards the Parramatta River. Some localised variations in groundwater flows are noted due to localised mounding and the presence of subsurface infrastructure;
- LNAPL was not gauged or observed at measurable thickness in wells monitored and dissolved phase hydrocarbon impacts are currently considered to be stable and well characterised in the context of the current land use. The monitoring well network is considered suitable to assess potential changes in environmental conditions from Terminal Operations, as well as known residual impacts;
- Dissolved-phase groundwater concentrations of petroleum hydrocarbon Contaminants of Potential Concern (COPC), including BTEXN and TRH C₆-C₄₀ Fractions do not indicate the occurrence of previously undetected release events from Terminal Site Operations.
- Stability of groundwater conditions is evident based on the detection of petroleum hydrocarbon concentrations being limited to known localised on-site areas where LNAPL has been previously observed/recorded in the sub-surface.

The Conceptual Site Model, including Potential Source-Pathway Receptor Linkages in relation to groundwater remains consistent with previous assessments:

- Concentrations of petroleum hydrocarbon COPCs exceeding offsite ecological or recreational criteria were delineated to on-site areas;
- Exceedances of off-site ecological criteria for chromium were noted in monitoring wells within the former Suez Leased Area, the Northern Wetlands and Clyde Terminal; however, exceedances have been delineated to on-site areas.
- Potential for risks to on-Site workers conducting excavation within the Site are currently mitigated via Viva Energy's Permit to Work system, which manages exposure risk via mandatory review of environmental data and implementation of controls prior to any excavation at the Site;

Appendix A3 presents a summary of the groundwater results for BTEXN and TRH C₁₀-C₃₆ at the Clyde Terminal.

Groundwater monitoring will continue in 2025 in accordance with the developed groundwater sampling and analysis plan that is presented in the Annual Progress Report detailed above.

4.5 Biodiversity

On 02 April 2019, DoEE granted approval to the Revised Plan of Management: Restoration of Green and Golden Bell Frog Habitat, Clyde Terminal, January 2019. The alternate design included a wetland mosaic adjacent to the main wetlands to provide additional breeding habitat to compensate for areas of habitat identified as lost from the previously approved Conservation of Green and Golden Bell Frogs, Shell Site, Clyde, 2013. The approved alternate design also aimed to preserve more of the existing wetland for the benefit of the balance of flora and fauna species in the area whilst meeting the breeding and sustainable habitat aims of the original Plan of Management.

In 2019, the proposed wetland mosaic and dispersal corridor were constructed. These works included the installation of a frog-proof fence along the wetland mosaic and main wetland to help contain the Green and Golden Bell Frog within their improved habitat and exclude them from operational areas.

Wetland maintenance activities have continued throughout the reporting period.

4.6 Waste

Wastes were managed in accordance with the EMM.

During the reporting period, operational activities at the Clyde Terminal generated approximately 430 tonnes of solid wastes, which was a notable decrease from the previous year's result of 2,212 tonnes. The larger waste volumes from previous years was due to large volumes of liquid waste and sludges from the cleaning of interceptors, drains and the sites water treatment system.

68% of all waste generated was recycled (on a weight by weight basis) and 32% was sent directly to landfill.

No asbestos waste was generated during the reporting period.

5 Incidents and non-compliances during the reporting period

No reportable incidents occurred during the reporting period.

No non-compliance with EPL570 conditions occurred during the reporting period.

6 Actions required from previous Annual Review

The Clyde Terminal environmental performance for the reporting period has been in line with the statutory requirements and limits, as described in Section 4 above.

No actions were identified in the previous Annual Review.

7 Measures to improve the environmental performance

The previous Annual Review provided final details of the environmental improvements undertaken in previous years in response to actions identified during the Independent Environmental Audit undertaken in 2022.

In accordance with consent condition D7, in 2025 Viva Energy will undertake an independent audit which will evaluate the level of compliance of all conditions of SSD5147 as well as EPL570. Any actions required or opportunities for improvement identified will be described in the 2025 Annual Review.

In August 2022, Viva Energy provided the NSW EPA with a "PFAS Firefighting Foam Transition Plan" for its NSW terminal operations, including the Clyde Terminal. The transition plan details a number of actions that Viva Energy will undertake to meet or exceed compliance with the Protection of the Environment Operations (General) Amendment (PFAS Firefighting Foam) Regulation 2021 (the Regulation).

Some of the actions include;

- Review credible fire scenarios and fire response infrastructure for all NSW operations, including the Clyde Terminal.
- Undertake detailed engineering evaluation of fire systems for conversion to fluorine free firefighting foam use.
- Decommission PFAS containing foams and dispose at a suitable licensed facility.
- Replace all PFAS foam stocks with fluorine free firefighting foam for Tankfarm fire protection

Viva Energy continue to implement this transition plan and provide regular updates to NSW EPA on progress against the actions detailed in the plan.

Appendix A

- A.1 2023 Annual Environmental Performance Report – DPHI review letter dated 4 September 2024
- A.2 Surface water discharge monitoring results
- A.3 Summary of Clyde Terminal Groundwater Conditions (Q4 2024)

A.1 2023 Annual Environmental Performance Report – DPHI review letter

Department of Planning, Housing and Infrastructure



NSW Planning ref: SSD-5147-PA-19

Erica Salazar Zarate
NSW HSSE Lead
VIVA ENERGY AUSTRALIA PTY LTD
Gate 3 Durham St
Rosehill New South Wales 2142
04/09/2024

Sent via the Major Projects Portal only

Subject: Clyde Refinery Conversion - Annual Review 2023

Dear Ms Salazar Zarate

Reference is made to your post-approval matter, SSD-5147-PA-19, Annual Review for the period 1 January to 31 December 2023, submitted as required by Condition D4 of SSD-5147 development consent, as modified (**Consent**) to the NSW Department of Planning, Housing and Infrastructure (**NSW Planning**) on 26 July 2024.

NSW Planning has reviewed the Annual Review and considers it to generally satisfy the reporting requirements of the Consent. Please make publicly available a copy of the 2023 Annual Review on the company's website within 30 days.

Please note that the NSW Planning's acceptance of this Annual Review is not an endorsement of the compliance status of the project.

NSW Planning acknowledges no non-compliances with the consent, complaints or incidents were reported in the Annual Review.

Should you wish to discuss the matter further, please contact Astrid Christensen, (Compliance Officer) on 9274 6170 or email compliance@planning.nsw.gov.au

Yours sincerely

A handwritten signature in black ink, appearing to read "Julia Pope".

Julia Pope
Team Leader Compliance - Metro
Compliance

4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150
Locked Bag 5022, Parramatta NSW 2124

www.dphi.nsw.gov.au

1

A.2 Surface water discharge monitoring results

EPA ID No.1 – Main discharge outlet													
Pollutant	Biochemical Oxygen Demand (BOD)	Fluoride	Nitrogen (Ammonia)	Oil and Grease	pH	Phenols	Total Nitrogen	Total Petroleum Hydrocarbons				Total Phosphorus	Total 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	mg/L				mg/L	mg/L
Freq. as per EPL	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly				Monthly	Monthly
02/01/2024	<5	0.60	0.09	<5	7.3	<0.05	0.84	<0.04	0.079	<0.2	<0.2	0.11	<5
06/02/2024	<5	0.75	0.08	<5	7.6	<0.05	0.78	<0.04	<0.05	<0.2	<0.2	0.13	<5
05/03/2024	<5	0.69	0.04	<5	7.5	<0.05	0.60	<0.04	<0.05	<0.2	<0.2	0.06	<5
02/04/2024	<5	1.1	0.04	<5	7.9	<0.05	0.67	<0.04	<0.05	<0.2	<0.2	0.07	<5
07/05/2024	<5	0.67	0.61	<5	7.1	<0.05	1.5	<0.04	0.41	0.57	<0.2	0.08	7
04/06/2024	<5	0.58	0.15	<5	7.1	<0.05	0.96	0.049	0.25	<0.2	<0.2	0.10	<5
02/07/2024	<5	0.46	0.10	<5	7.1	<0.05	0.58	0.18	0.16	0.39	<0.2	0.02	<5
06/08/2024	<5	0.42	0.05	<5	7.6	<0.05	0.42	<0.04	0.11	0.41	<0.2	0.02	<5
03/09/2024	<5	0.81	0.16	<5	7.5	<0.05	1.0	<0.04	0.17	0.57	<0.2	0.07	<5
01/10/2024	<5	0.65	0.09	<5	7.5	<0.05	1.1	<0.04	0.23	0.45	<0.2	0.11	<5
05/11/2024	<5	1.2	0.07	<5	7.6	<0.05	1.2	<0.04	0.088	0.49	<0.2	0.10	<5
03/12/2024	9	0.83	0.73	<5	6.7	<0.05	2.2	<0.04	0.29	0.60	<0.2	0.20	14

EPA ID No.2 – Main Interceptor Pumpout				
Pollutant	pH	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 2024	No discharge			
February 2024	No discharge			
March 2024	No discharge			
April 2024	No discharge			
May 2024	No discharge			
June 2024	No discharge			
July 2024	No discharge			
August 2024	No discharge			
September 2024	No discharge			
October 2024	No discharge			
November 2024	No discharge			
December 2024	No discharge			

EPA ID No. 4 - B2 System Pump out					
Pollutant	pH	Phenols	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	mg/L
Frequency as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging
January 2024	No discharge				
February 2024	No discharge				
March 2024	No discharge				
April 2024	No discharge				
May 2024	No discharge				
June 2024	No discharge				
July 2024	No discharge				
August 2024	No discharge				
September 2024	No discharge				
October 2024	No discharge				
November 2024	No discharge				
December 2024	No discharge				

EPA ID No.25 – Flexible discharge outlet			
Pollutant	pH	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	<5 days prior to discharge	<5 days prior to discharge	<5 days prior to discharge
January 2024	No discharge		
February 2024	No discharge		
March 2024	No discharge		
April 2024	No discharge		
May 2024	No discharge		
June 2024	No discharge		
July 2024	No discharge		
August 2024	No discharge		
September 2024	No discharge		
October 2024	No discharge		
November 2024	No discharge		
December 2024	No discharge		

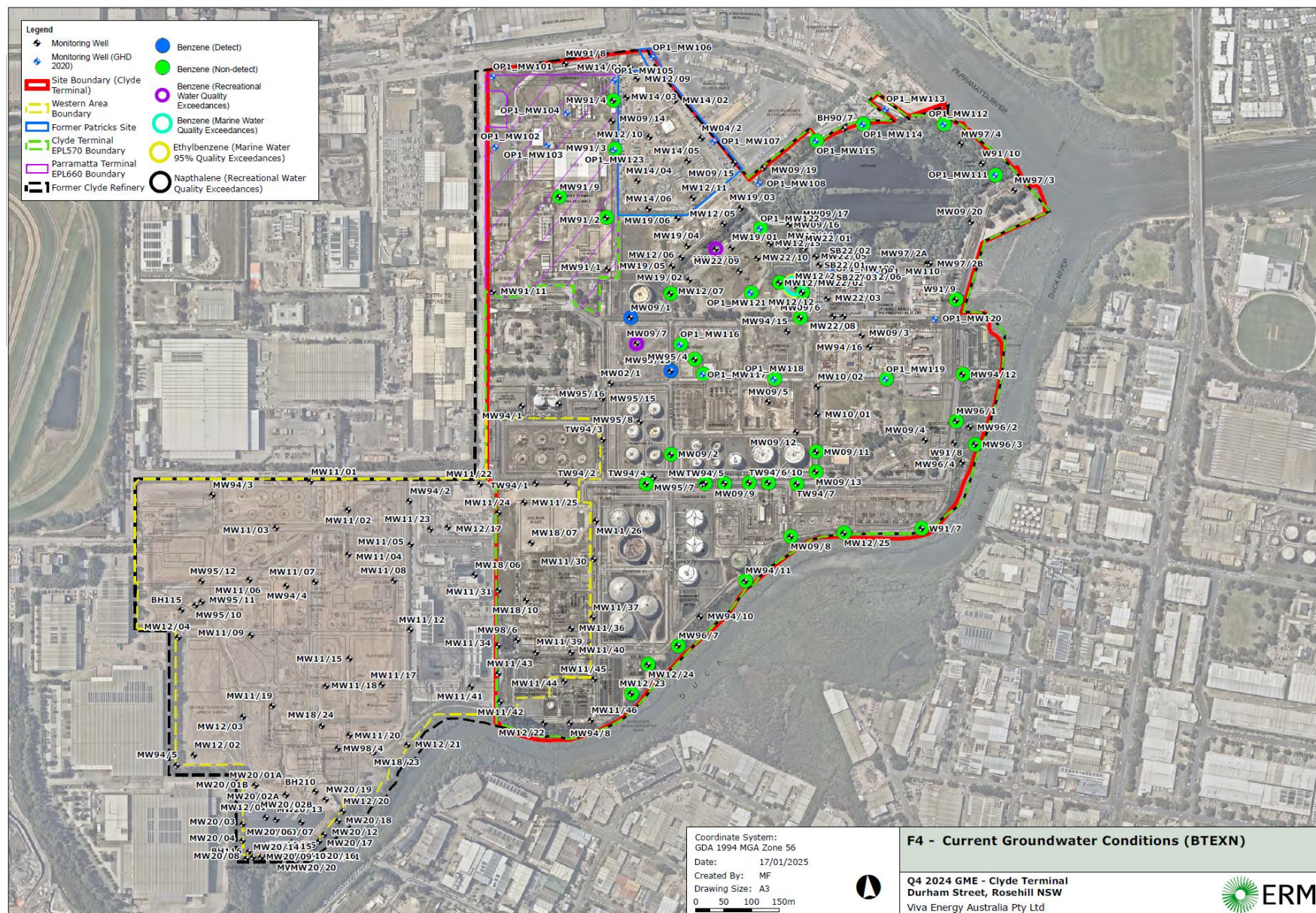
EPA ID No. 26 - B2 System Monitoring Point								
Pollutant	pH	Phenols	Total Organic Carbon	Total Suspended Solids	Total Petroleum Hydrocarbons			
					C6-C9	C10-C14	C15-C28	C29-C36
Units of Measure	units	mg/L	mg/L	mg/L	mg/L			
Freq. as per EPL	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging	Daily when discharging			
January 2024	No discharge							
February 2024	No discharge							
March 2024	No discharge							
April 2024	No discharge							
May 2024	No discharge							
June 2024	No discharge							
July 2024	No discharge							
August 2024	No discharge							
September 2024	No discharge							
October 2024	No discharge							
November 2024	No discharge							
December 2024	No discharge							

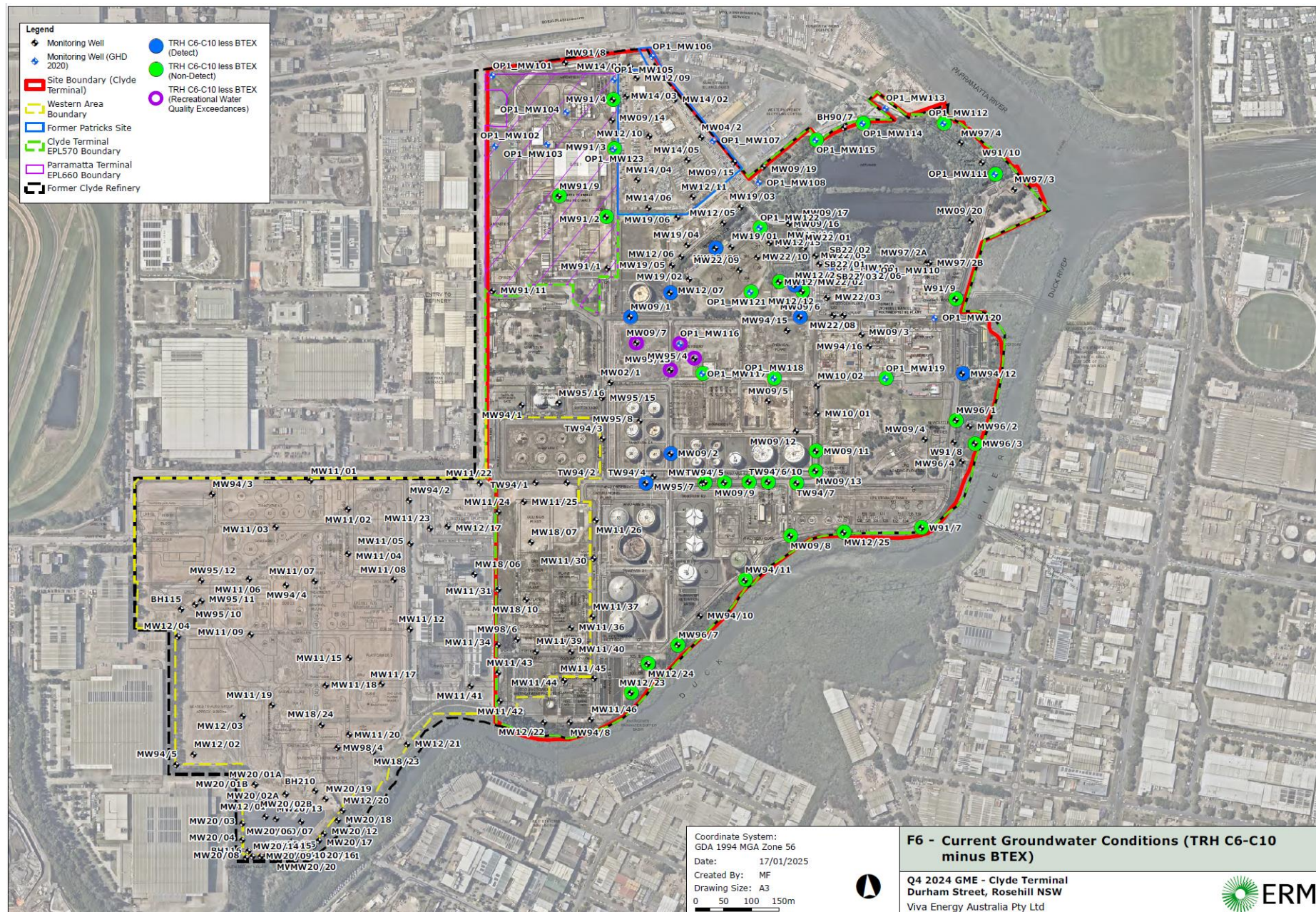
EPA ID No. 28 – East Interceptor Bay 1&2 overflow			
Pollutant	pH	Total Organic Carbon	Total Suspended Solids
Licence Limit	n/a	n/a	n/a
Units of Measure	units	mg/L	mg/L
Frequency	Each overflow event	Each overflow event	Each overflow event
15/01/2024	7.9	1.9	31
16/01/2024	7.6	2.7	9
18/01/2024	7.5	2.5	27
21/02/2024	8.0	3.1	5
Mar 2024	No discharge		
05/04/2024	7.9	1.9	31
06/04/2024	7.6	2.7	9
07/04/2024	7.5	2.5	27
06/05/2024	7.4	3.9	37
12/05/2024	8.0	3.0	8
13/05/2024	7.8	4.1	8
02/06/2024	7.0	3.5	18
07/06/2024	8.0	3.0	21
08/06/2024	8.0	2.8	11
Jul 2024	No discharge		
Aug 2024	No discharge		
Sep 2024	No discharge		
Oct 2024	No discharge		
Nov 2024	No discharge		
Dec 2024	No discharge		

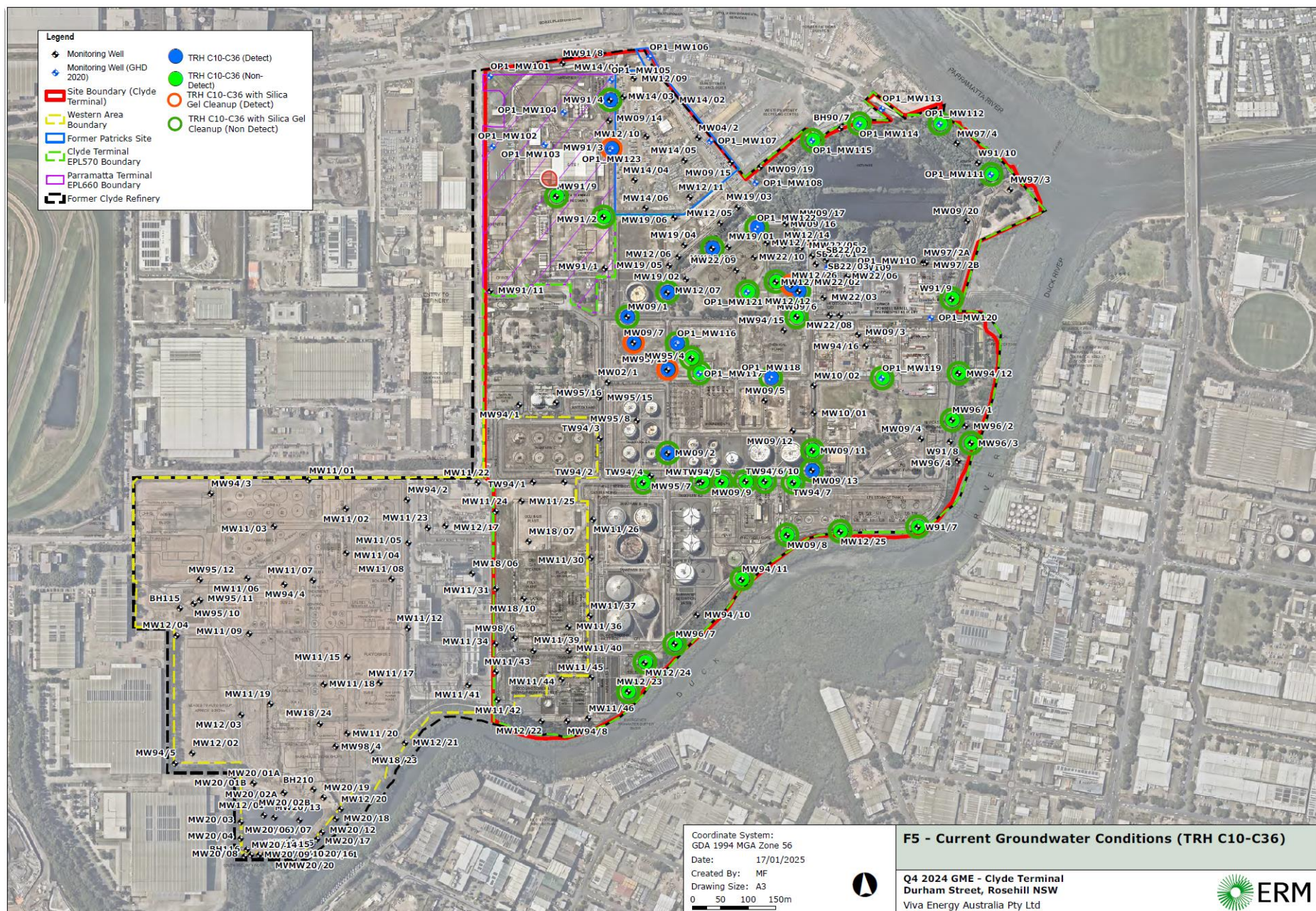
EPA ID No. 29 – East Interceptor Bay 3&4 overflow			
Pollutant	pH	Total Organic Carbon	Total Suspended Solids
Licence Limit	n/a	n/a	n/a
Units of Measure	units	mg/L	mg/L
Frequency as per EPL	Each overflow event	Each overflow event	Each overflow event
15/01/2024	7.5	3.9	23
16/01/2024	7.5	4.1	<5
21/02/2024	7.8	4.9	7
Mar 2024	No discharge		
05/04/2024	8.2	6.2	33
06/04/2024	7.5	3.0	14
06/05/2024	8.2	4.1	39
12/05/2024	7.7	5.3	10
02/06/2024	7.2	4.5	8
07/06/2024	7.8	4.8	11
22/06/2024	8.1	5.3	<5
Jul 2024	No discharge		
Aug 2024	No discharge		
Sep 2024	No discharge		
Oct 2024	No discharge		
Nov 2024	No discharge		
Dec 2024	No discharge		

EPA ID No.30 – East Interceptor Pump-out				
Pollutant	pH	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 2024	No discharge			
February 2024	No discharge			
March 2024	No discharge			
April 2024	No discharge			
May 2024	No discharge			
June 2024	No discharge			
July 2024	No discharge			
August 2024	No discharge			
September 2024	No discharge			
October 2024	No discharge			
November 2024	No discharge			
December 2024	No discharge			

A.3 Summary of Clyde Terminal Groundwater Conditions (Q4 2024)









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