

Annual Environmental Management Report - Clyde Transfer Terminal 2023-2024



Name of operation	Clyde Transfer Terminal
Name of operator	Veolia Environmental Services
Development consent / project approval #	DA 205-08-01
Name of holder of development consent / project approval	Veolia Environmental Services
Mining lease #	NA
Name of holder of mining lease	NA
Water licence #	NA
Name of holder of the water licence	NA
MOP/RMP start date	NA
MOP/RMP end date	NA
Annual Review start date	15th of January 2023
Annual Review end date	14th of January 2024
<p>I, Anae Ressos, certify that this audit report is a true and accurate record of the compliance status of Clyde Transfer Terminal for the period 15 January 2023-14 January 2024 and that I am authorised to make this statement on behalf of Veolia Environmental Services.</p> <p>Note:</p> <p>a) <i>The Annual Review is an 'environmental audit' for the purposes 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.</i></p> <p>b) <i>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).</i></p>	
Name of authorised reporting officer	Anae Ressos
Title of authorised reporting officer	Environmental Management Representative - Clyde Transfer Terminal
Signature of authorised reporting officer	
Date	14/03/2024

Quality Information

Prepared by



.....

Nicole Boukarim
Environmental Compliance
Advisor (NSW/ACT)

Reviewed by



.....

Kelly Gee
Environmental Manager
(NSW/ACT)

Authorised by



.....

Rod Jones
Facilities Manager
Clyde/Greenacre



.....

Anae Ressos
Environmental
Coordinator/Environmental
Management Representative -
Clyde
BEnv

Address:

Veolia Australia and New Zealand
Level 4, 65 Pirrama Road
Pyrmont, NSW 2009

Status:

FINAL

Document Revision Register:

Rev	Revision Details	Issued to	Date
1	Draft for internal review	<ul style="list-style-type: none"> Veolia NSW Resource Recovery Team Veolia ANZ Environmental Compliance Team 	February 2024
1	Final	<ul style="list-style-type: none"> NSW Department of Planning, Housing and Infrastructure NSW Environment Protection Authority Cumberland City Council 	March 2024

Contents

Executive Summary	5
1. Introduction	6
1.1 Site Background	6
1.2 Legislative Requirements	6
1.3 Responsibilities	8
2. Environmental Monitoring and Management	9
2.1 Monitoring Requirements	9
2.1.1 Meteorology	10
Wind Speed, Wind Direction and Sigma Theta	10
Temperature and Solar Radiation	11
Evaporation	11
Rainfall	11
2.2 Air Quality	13
2.2.1 Dust	13
2.3 Noise Monitoring	15
2.3.1 Truck Noise Monitoring	16
2.4 Traffic Management	17
2.4.1 Traffic Movements	17
2.4.2 Traffic Infringements	18
2.5 Waste Monitoring	18
2.5.1 Waste Volume Monitoring	19
2.6 Pests and Vermin	20
2.7 Community Consultation	20
3. Environmental Performance	22
3.1 Previous IEA Non-Compliances	22
3.2 Current Non-Compliances	23
3.3 Previous Opportunities for Improvement	24
3.5 Complaints	26
3.6 Conclusion	26
Terms and Definitions	28
Reference Documents	29
Appendix A - Site Location Plan	30
Appendix B - Environmental Monitoring Locations Plan	31
Appendix C - Monitoring Data	32

Appendix C1 - Meteorological Data	33
Appendix C2 - Odour Monitoring Data	34
Appendix C3 - Noise Monitoring Data	35
Appendix C4 - Pest & Vermin Reports	36

Executive Summary

This Annual Environmental Management Report (AEMR) is the 20th report prepared to detail the environmental performance of the Clyde Transfer Terminal (The Terminal), owned and operated by Veolia Australia and New Zealand (Veolia). This AEMR covers the period from the 15th January 2023 to 14th January 2024 ('Reporting Period').

Veolia has prepared this AEMR in accordance with Consent Condition 58 and 59 of the Development Consent DA 205-08-01 (the Consent) and subsequent modifications, as well as relevant legislative requirements and industry best practices.

This AEMR provides a summary of environmental monitoring conducted at the Terminal and any non-compliances identified against the Consent during the reporting period, as well as the corrective actions, where implemented, to address such non-compliances.

As of 10th October 2023, the Terminal is no longer required to undertake an annual Independent Environmental Audit (IEA), as the Department has approved the alternation of the IEA schedule to every three years. With the last IEA conducted in 2022, the next IEA is scheduled to occur in 2025.

During this reporting period, 2 non-compliances were identified against the Conditions of the Consent (hereby referred to as Consent Conditions), which are as follows:

- Condition 48 - 6-monthly odour audit completed 7-months after previous audit;
- Condition 50 - An enforcement program including the imposition of identified punitive measures against any driver or vehicle owner whenever requirements of this condition are breached, have not been able to be implemented; and
- Condition 114 - no specific training program for rail operators to minimise potential noise nuisance has been implemented by Veolia.

1. Introduction

1.1 Site Background

The Terminal is located within a portion of the Clyde Rail Yard at 322 Parramatta Road and forms part of Lot 21 of DP10076683 in the Cumberland City Council area (Council). A site layout and location plan is provided in **Appendix A**.

The Terminal was granted ministerial approval in 2003 to operate under the Clyde Waste Transfer Terminal (Special Provisions) Act 2003 (assented 8 December 2003). The Consent was modified (29 April 2019) to permit the Terminal to receive up to 600,000 tonnes per annum (TPA) of mixed waste.

Clyde Waste Transfer Terminal commenced operations in 2004, accepting putrescible and non-putrescible waste from the Sydney metropolitan area, which is containerised and loaded onto rail wagons for transportation in the Southern Tablelands (approximately 250 kilometres southwest of Sydney) for treatment, recycling and energy recovery.

1.2 Legislative Requirements

The key environmental legislation for the Terminal includes the *Environmental Planning and Assessment Act 1979* (EP&A Act) regulated by the Department of Planning, Housing and Infrastructure (DPHI), and the *Protection of the Environment Operations Act 1997* (POEO Act) regulated by the NSW Environment Protection Authority (EPA), as well as their respective associated regulations.

Legislative instruments governing the environmental performance for the Terminal include the Consent, under the *Clyde Waste Transfer Terminal (Special Provisions) Act 2003* and an Environment Protection Licence (EPL) 11763 issued by the EPA, under the POEO Act. These approvals regulate the operational activities conducted at the Terminal.

The Consent Conditions relevant to the preparation of this AEMR are provided in **Table 1.1** below.

Table 1.1 Consent Conditions for the preparation of this AEMR

Relevant Condition	Requirement
GENERAL ENVIRONMENTAL MANAGEMENT	
<i>Environmental Monitoring Program</i>	
58	The Applicant shall include a report on the Environmental Monitoring Program in

	<p>the Annual Environmental Management Report. The report must:</p> <ul style="list-style-type: none"> (a) Summarise the results from the Environmental Monitoring Program over the previous year (b) Analyse the results in relation to both past performance, and the relevant standards and performance measures of the development (c) Identify any emerging trends in the data over the life of the development (d) Include a copy of the detailed monitoring results as an attachment.
<p><i>Annual Environmental Management Report</i></p>	
<p>59</p>	<p>Between twelve and fourteen months after the issue date of an environmental protection licence for the development; and annually thereafter for the duration of the development, the Applicant shall submit an Annual Environmental Management Report to the Secretary, the EPA and the Community Consultative Committee. The report shall be made available to the public on request to the Application. The report combined with the Annual Return required by the environment protection licence to be submitted to the EPA. The report must:</p> <ul style="list-style-type: none"> (a) Identify all the standards, performance measures, and statutory requirements the development is required to comply with (b) Review the environmental performance of the development to determine whether it is complying with the standards, performance measures and statutory requirements (c) Identify each occasion during the previous year when the standards, performance measures, or statutory requirements have not been complied with (d) where any non-conformance is identified, describe the actions or measures taken to ensure compliance, who is responsible for carrying out the actions, and when the actions were (or will be) implemented (e) include a summary of any complaints made about the development, and indicate the actions taken to address the complaints (f) include a report on the Environmental Monitoring Program as specified in this Consent.
<p><i>Independent Environmental Audits</i></p>	
<p>60</p>	<p>On 10 October 2023 The Department carefully reviewed the requested change to the frequency of IEA at Clyde Waste Transfer Terminal and is satisfied that an alteration of the IEA schedule to every three years, will not affect the overall environmental performance of the facility.</p> <p>Every three years* following the date of this consent or at periods otherwise agreed to by the Planning Secretary, and until such time as agreed to by the Planning Secretary, the Applicant shall arrange for an independent audit of the environmental performance of the development. The audits shall:</p> <ul style="list-style-type: none"> (a) be conducted pursuant to ISO 14010 – Guidelines and General Principles for Environmental Auditing, ISO 14011 – Procedures for Environmental Monitoring and any specifications of the Planning Secretary; (b) be conducted by a suitably qualified independent person approved by the Planning Secretary;

	<p>(c) assess compliance with the requirements of this consent;</p> <p>(d) assess the implementation of the EMP (Construction) and EMP (Operation) and review the effectiveness of the environmental management of the development; and</p> <p>(e) be carried out at the Applicants' expense.</p> <p>The audits shall be submitted to the Planning Secretary.</p> <p>The Applicant shall comply with all reasonable requirements of the Planning Secretary in respect of any measures arising from or recommended by the audits and within such time as agreed to by the Planning Secretary.</p> <p><i>* Refer to Memo: DA205-08-01-PA-28 which grants approval for the frequency of this condition to be three-yearly instead of every year.</i></p>
--	---

1.3 Responsibilities

The Environmental Management Representative (EMR) for this reporting period was Anae Ressos (Environmental Coordinator) as per Consent Condition 55.

Environmental monitoring was undertaken by Anae Ressos (Environmental Coordinator) and Nicole Boukarim (Environmental Advisor).

The Odour Unit PTY LTD (TOU) was appointed to conduct biannual odour audits.

Hydrometric Consulting Services completed calibrations/servicing of the weather station.

Expert Judgement Pest Management Pty Ltd (Expert) was appointed for pest and vermin control throughout this reporting period and inspections are undertaken on a routine basis. In addition to this, there are routine inspections undertaken by the Terminal's operators, as part of general housekeeping and recorded on relevant Housekeeping and Inspection checklists.

As of 10th October 2023, the Terminal is no longer required to undertake an annual Independent Environmental Audit (IEA), and is approved to undertake these audits on a 3-yearly basis. Therefore no independent environmental audits were undertaken this year. The next IEA is scheduled to occur in 2025.

2. Environmental Monitoring and Management

2.1 Monitoring Requirements

The following sections detail the monitoring undertaken throughout the reporting period in accordance with the Environmental Monitoring Program proposed within the Operational Environmental Management Plan (OEMP).

The Environmental Monitoring Program provides details on all monitoring requirements of the Consent and other appropriate regulations to measure and assess the continuing suitability, adequacy and effectiveness of on-site environmental management measures.

Table 2.1 summarises the environmental monitoring program for the Terminal and a monitoring location plan is provided in **Appendix B**.

Table 2.1 - Summary of the environmental monitoring program for the Terminal

Consent Condition	Type of Monitoring	Frequency	Commentary
48 (f)	Odour Audits	6-monthly	Monitoring conducted on 5 July 2023 and on 14 February 2024
49	Dust monitoring	Following receipt of dust complaint, as required	Not triggered
50	Traffic Monitoring	As required; periodically or following receipt of complaint	Ongoing basis
60	Independent Environmental Audit	Three-yearly	Condition satisfied, last IEA conducted 2022, next audit due in 2025
91	Meteorological monitoring	Continuous (15 minute intervals)	Ongoing basis

112	Heavy vehicle noise monitoring	Annually	Condition satisfied, last conducted 7 September 2023
117	Pest and Vermin Inspections	Quarterly	Ongoing basis

2.1.1 Meteorology

Veolia operates an automated onsite weather station (Campbell Scientific Model CR800) to continuously log meteorological data, in accordance with Consent Condition 91. This allows sampling and analysis of the parameters specified in **Table 2.2** below, along with standards and statutory requirements to collect and record this data.

Table 2.2 - Meteorological data parameters and performance measures

Parameter	Performance Measure	Standards	Statutory Requirement
Wind Speed	Data correlated with other environmental monitoring results for Terminal operations and complaint resolution	AM-2 & AM-4	Consent Condition 91
Wind Direction		AM-2 & AM-4	
Sigma Theta		AM-2 & AM-4	
Temperature		AM-4	
Rainfall		AM-4	
Solar Radiation		AM-4	
Evaporation		Penman-Monteith method	

Captured meteorological data provides a general understanding of the ambient air conditions at the Terminal, which in turn allows us to use this data within investigations of potential odour and dust complaints as well as other environmental incidents. Justification for the collection of specific meteorological data is provided below.

Wind Speed, Wind Direction and Sigma Theta

Wind speed, direction and sigma theta (which are used to calibrate turbulence) are logged at 15-minute intervals, the data from which is used to respond to odour and noise complaints, on receipt.

Temperature and Solar Radiation

In combination with wind speed, temperature and sunlight (solar radiation) play an important role in odour and dust emission modelling to predict airflow patterns and atmospheric stability. In the event that a complaint is received, these parameters would be used to conduct assessments to identify whether adverse air quality impacts can be attributed to operations at the Terminal.

Evaporation

Evaporation measures the extent of vapourisation of a liquid into gaseous phase. Water molecules are small and highly polar which can bind to many substances including odorous gases and dust particles. Therefore, evaporation can be used to conduct dispersion modelling in the event of an odour/or dust complaint.

Rainfall

Rainfall data is measured and recorded at 15-minute intervals at the Terminal to provide an understanding of rainfall patterns and to highlight significant rainfall events. Rainfall generally affects the emissions of dust and odours, as it is able to wash particulate matter and dissolves gaseous pollutants out of the atmosphere. Given this, rainfall data is utilised within responses to odour and/or dust complaints.

In addition, the intensity and duration of stormwater events at the Terminal can be used to assess the performance of the stormwater management system.

A summary of monthly rainfall and evaporation rates, as well as minimum and maximum monthly temperatures at the Terminal during this reporting period is presented below in **Figures 2.1** and **2.2** respectively.

Overall, the average rainfall for the Terminal during this reporting period was recorded at 60 mm per month.

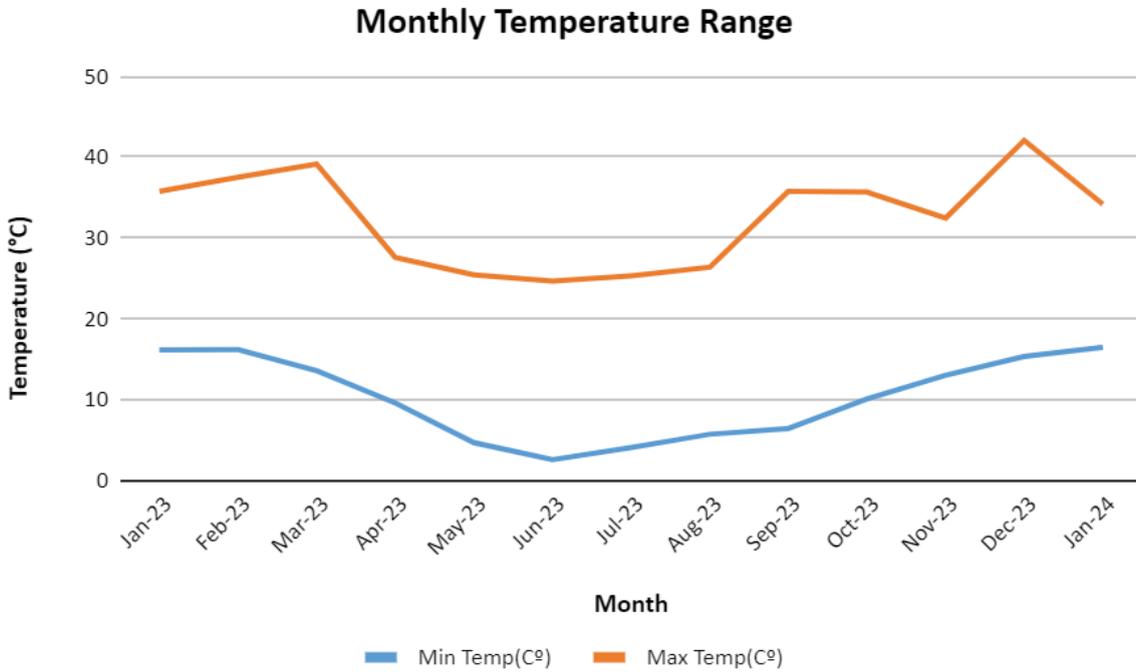


Figure 2.1 - Average Monthly Temperature rates at the Terminal

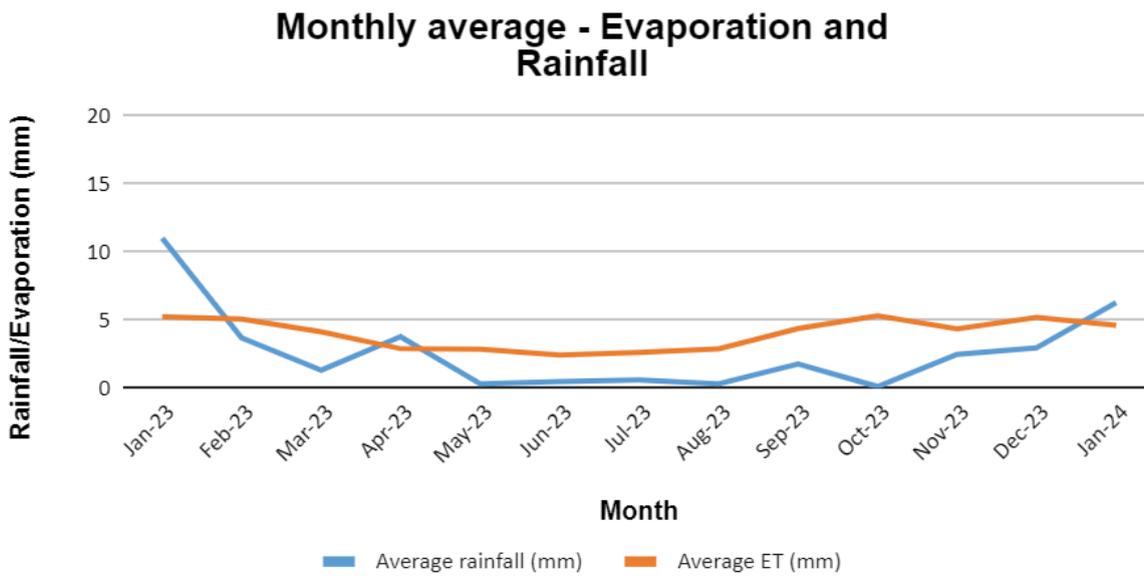


Figure 2.2 - Average Evaporation and Rainfall rates at the Terminal

During the reporting period, no non-compliances relating to the collection of meteorological data occurred.

Servicing and calibration of the meteorological station was carried out by Hydrometric Consulting Services (HCS). Calibration records for the months of April 2023, July 2023, October 2023 and January 2024 can be found in **Appendix C1**.

2.2 Air Quality

In accordance with the Consent, the Terminal has adopted performance criteria pertaining to dust and odour emissions, which are summarised in **Section 2.2.1** and **Section 2.2.2** respectively.

Air quality monitoring was carried out as required to determine whether activities conducted at the Terminal impacted ambient air quality. Further details regarding air quality monitoring and management practices undertaken at the Terminal are provided in the following sections.

2.2.1 Dust

To manage dust, Veolia utilises and maintains a dust suppression system in the waste shed. Further controls for areas within close proximity of the waste shed are regularly maintained with the use of the road sweeper and general housekeeping.

In accordance with Consent Condition 49, following the receipt of any dust related complaints, investigations would be undertaken to monitor or implement additional measures aimed to mitigate identified dust impacts on residential or commercial areas, associated with the operation of the Terminal. The NSW EPA (2007 and 2017) air quality parameters that would be measured to determine dust emissions, are provided in **Table 2.3**.

Table 2.3 - NSW EPA air quality impact Dust assessment criteria

Parameters	Performance Measure	Standards	Statutory Requirement
Total Suspended Particulates (TSP) - Annual Average	90µg/m ³	Approved Methods for the Sampling and Analysis of Air Pollutants in NSW	Consent Condition 49
Deposited Dust (DD) - Incremental	2 g/m ² /month		
Deposited Dust (DD) - Cumulative	4 g/m ² /month		

The EIS prediction expected some minor air quality impacts during operation (Maunsell McIntyre, 2001). The level of impact is minimised through effective site control measures so that residents

and commercial industries surrounding the site are not impacted at a level likely to cause nuisance.

No dust complaints were received during this reporting period therefore monitoring requirements were not triggered.

2.2.2 Odour

The requirements of Consent Conditions 48(e) and 77 are to ensure site operations meet the EPA’s odour goal of less than 2 odour units (OU) at the nearest sensitive receiver (Refer to **Table 2.4**).

Table 2.4 - Odour Emission Performance Criteria

Parameter	Performance Measure	Standards	Statutory Requirement
Odour Emissions	2 OU	German Standard VDI 3940 “Determination of Odorants in Ambient Air by Field Inspections”	Consent Condition 48E

To achieve this goal, the Terminal operates an air extraction system within the Terminal’s building, which was designed to both ventilate the building, and capture and disperse odour emissions from within the building. In addition, containers used for the transportation of waste are fitted with activated carbon filtration systems on the air exhaust vents.

In accordance with Consent Condition 48, the performance of odour control and ventilation equipment is assessed in biannual odour audits which were conducted by the Odour Unit PTY LTD. Following the December 2022 odour audit, an audit was conducted in July 2023, and then in February 2024. Due to scheduling challenges and unsuitable weather conditions, the 6-monthly odour audit was completed 7-months after the previous audit. This non-compliance is addressed in Section 3.2 of this report. The July 2023 odour audit report is provided in **Appendix C2**.

Table 2.5 below provides a summary of the odour audit results.

The odour audits were conducted using the ranking scale stipulated within the German Standard VDI 3940 “Determination of Odorants in Ambient Air by Field Inspections”. The standard ranking system is based on the following seven-point intensity scale, as follows:

VDI 3940	Intensity Scale
0	Not Detectable
1	Very Weak
2	Weak

3	Distinct
4	Strong
5	Very Strong
6	Extremely Strong

Table 2.5 - Summary of Odour Audit Results 2023

Assessment Location	Wind Direction	05/07/2023
1 - Onsite (North-West)	NW	0
2 - Onsite (South-East)	NW	0
3 - Onsite (South-East)	NW	0
4 - Offsite (Auburn Residential)	NW	0
5 - Offsite (Auburn Residential)	NW	0
6 - Offsite (Auburn Residential)	NW	0

The odour audit detected 0 odorants in the Field Ambient Odour-Assessments. The Odour Audit found that no odours were detectable off-site that could be linked back to the Terminal and its activities.

The results of the odour audit indicate the Terminal complies with Consent Condition 48(e), which states that odour at the Terminal shall not exceed 2OU at the nearest receiver.

The Terminal continues to meet the requirements of the *Technical framework: assessment and management of odour from stationary sources in NSW (DEC, November 2006)*. Veolia also maintains a thorough housekeeping regime, combined with odour management controls, which help to minimise the likelihood of odour impacts on surrounding neighbours/receivers.

No odour complaints were received during this reporting period.

2.3 Noise Monitoring

Table 2.6 lists the parameters, respective performance measures, standards and statutory requirements for background noise levels and vehicle emissions limits.

Table 2.6 - Noise Monitoring Requirements

Parameter	Performance Measure (dB(A))	Standards	Statutory Requirement
Day - LAeq (15 minute)	44,40,41	Noise Management	EPL Condition L3.1
Evening - LAeq (15 minute)	38,38,39		
Night - LAeq (15 minute)	39,38,39		
Night - LA1 (15 minute)	56,54,52		
Vehicle Emissions	89	Australian Design Rule (ADR) 28/01	Consent Condition 112

Truck noise monitoring was undertaken at the Terminal to ensure that waste vehicles entering the Terminal are not emitting nuisance noise emissions.

In the EIS, day and night time scenarios and sound power level designated for the plant equipment, calculated noise levels are predicted to comply with the EPA's intrusiveness and amenity criteria at the closest residential, commercial and industrial premises (Maunsel McIntyre, 2001).

There were no registered noise complaints from either industrial, commercial or residential neighbours throughout this reporting period.

2.3.1 Truck Noise Monitoring

The truck noise monitoring was undertaken on the 7th September 2023 in accordance with Consent Condition 112 for this reporting period. Noise levels of 108 truck movements out of a daily total of 261 truck movements were measured, equivalent to 41.3% of truck movements. A summary of the results is illustrated in **Figure 2.3**. Further details regarding truck movements at the site are discussed in **Section 2.4.1**.

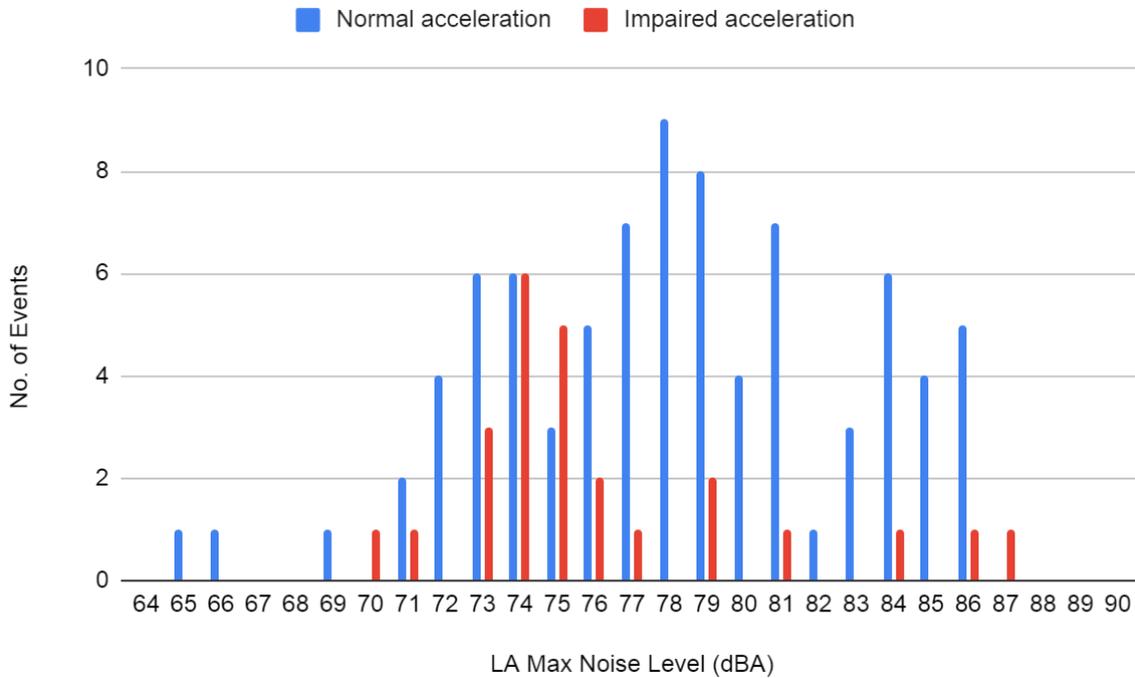


Figure 2.3. Noise level distribution from truck noise monitoring conducted on 7th of September 2023

Trucks monitored on 7 September 2023 were measured between 65.8dBA to 87.0dBA, and fell within or below the thresholds of 81dBA to 87dBA for Heavy Goods Vehicles with a GVM > 12 tonne in accordance with the Australian Design Rules (ADR) 28/01. Although there were no exceedances of the threshold, one truck was measured at 87.0dBA which reaches the 87dBA threshold.

There were no noise complaints received from either industrial, commercial or residential neighbours throughout this reporting period.

2.4 Traffic Management

2.4.1 Traffic Movements

Vehicle movements at the Terminal during this reporting period totalled at 82,601 as summarised in **Table 2.7** below.

Table 2.7- Traffic movements per month for 2022/2023 & 2023/2024 reporting periods

Monitoring Period	2022/2023 Truck Movement	2023/2024 Truck Movement
15 to 31 January	3,475	3,718
February	6,154	6,733

March	5,598	7,187
April	7,441	6,775
May	7,902	7,171
June	7,186	6,945
July	7,152	7,156
August	7,504	6,918
September	6,739	6,420
October	7,006	6,830
November	6,768	6,752
December	7,165	6,870
1 to 14 January	3,086	3,126
TOTAL	83,176	82,601

In the EIS, it was predicted that there would be minimal disruption from existing traffic within the site and Parramatta Road (Maunsel McIntyre, 2001).

No noise, odour and traffic complaints were received during this reporting period which demonstrates that the movements of trucks at the Terminal did not contribute to any significant noise/odour/ traffic impacts to the surrounding environment.

2.4.2 Traffic Infringements

Veolia continues to implement mitigation measures including ongoing spot monitoring of vehicle movements as described in the TMP.

2.5 Waste Monitoring

The Waste Management Plan (WMP), which forms part of the OEMP, was prepared for the Terminal in accordance with Consent Condition 47, and 62–69, and details the procedures for the acceptance and management of waste at the Terminal.

All waste received at the Terminal is recorded and maintained in the Systems, Applications and Products in Data Processing (SAP) software. The program records vehicle registration, date and time of entry and exit, the gross and tare weight of the vehicle, as well as the nature and origin of waste received by each contractor.

Procedures are in place to reject or separate non-conforming waste upon arrival at the site. These procedures include visual assessments of incoming wastes by weighbridge operators assisted by closed circuit television (CCTV), as well as inspecting the waste as it is unloaded onto the tip floor. No records of non-conforming waste were reported during this reporting period.

Furthermore, data is recorded and tracked for the containers and includes container status, container weight comparisons and carbon filter replacement. This information is maintained daily by Terminal personnel.

2.5.1 Waste Volume Monitoring

The amount of waste accepted at the Terminal in the 2023 calendar year totalled 457,903 tonnes as summarised in **Table 2.8** below.

Table 2.8 - Summary tonnage per month during 2022 and 2023

Monitoring Period	Incoming Waste Volumes 2022 (tonnes)	Incoming Waste Volumes 2023 (tonnes)
January	37,918	37,184
February	35,167	38,414
March	33,118	39,616
April	41,917	37,450
May	43,195	38,929
June	36,242	38,150
July	37,697	36,645
August	38,455	38,577
September	36,602	35,648
October	40,424	38,910
November	37,489	38,382
December	39,108	39,998
TOTAL	457,332	457,903

Table 2.8 indicates that during the 2023 calendar year there was an increase in waste by 571 tonnes compared to the 2022 calendar year. This demonstrates the Terminal operated within the annual waste limit as stipulated within Consent Condition 10.

2.6 Pests and Vermin

Pests and vermin management is undertaken at the Terminal to ensure that the control measures implemented to minimise the potential for birds, rodents, flies and other pests, remain effective. The primary means of controlling pest and vermin activity is through good housekeeping measures, daily inspections, and quarterly pest control services. **Table 2.9** below identifies the housekeeping undertaken at the Terminal to manage pests and vermin.

Table 2.9 - Pest and Vermin Management

Parameter	Performance Measure	Standard	Statutory Requirement
Litter and Odour Control	Visual Inspection and housekeeping	Veolia Business Management System	Vermin and Pest Control Plan-Consent Conditions 51, 115-117
Vermin Habitat			

Pest control was undertaken by Expert Judgment Pest Management throughout this reporting period. In addition, inspections are undertaken on a routine basis by the Terminal's operators, as part of general housekeeping and recorded on relevant housekeeping and inspection checklists.

The checklists provide a record of the visual monitoring undertaken at the Terminal and provide opportunity to identify where additional corrective actions may need to be applied.

During the quarterly pest and vermin control services this reporting period, the external contractor inspected and treated all internal, external areas of the waste shed and site facilities for cockroaches, ants, spiders and rodents. These areas were treated with Roban rodent bait and Cislin 25 spray respectively. The reports can be found in **Appendix C4**.

During the most recent IEA, the auditors found that Veolia takes all suitable measures to minimise the attraction and infestation of vermin and pests on site.

2.7 Community Consultation

Under Condition 134 the Terminal is required to establish and maintain a Community Consultative Committee (CCC). This is to ensure the Committee may make comments and recommendations about the Terminal's development, management and environmental plans. While in previous years, Veolia sent out a biannual Clyde Community Newsletter, during this reporting period, no newsletters were disseminated. This was reported as a non-compliance with condition G2.1 of the site EPL in the Annual Return for 2023-2024. Veolia established a community environment liaison committee; however, there was no engagement by the community and no community representatives have shown interest in attending meetings. It is also noted that there have also been no changes, incidents or other relevant updates at the site for the CCC to be updated on during this reporting period. However, Veolia continues to provide

general updates to the community about the site and site operations through the Veolia website, and direct communication with neighbours when required.

3. Environmental Performance

The environmental performance of the Terminal is assessed through the results of environmental monitoring, internal inspections, as well as internal and external environmental audits.

An internal audit of the Terminal's environmental performance and compliance with the site's EPL and Consent conditions was undertaken on 1 February 2024r by Veolia's Environmental Compliance team. The objective of this audit was to assess the environmental performance of the Terminal and identify any non-compliances against environmental approvals issued to the Terminal, as required by Condition 6 of the Consent.

Veolia submitted a post-approval matter, DA205-08-01-PA-28, requesting that the frequency of IEA be altered from every year (in accordance with Schedule 2, Condition 58 of DA205-08-01), to every three years . On 10th October 2023, The Department approved the alternation of the IEA schedule to every three years. Thus, the next IEA is scheduled to occur in 2025.

A discussion of the non-compliances identified by the IEA, as well as the corrective actions, where implemented, is provided within this section. A comparison is also made to the non-compliances/regulatory actions and corrective actions implemented in the previous reporting period to present the changes to the environmental performance of the Terminal.

3.1 Previous IEA Non-Compliances

Three non-compliances were identified during the 2022 reporting period and the status of corrective actions to resolve/manage the non-compliances are detailed in **Table 3.1** below.

Table 3.1 - Non-compliances and IEA observations against the Consent in the 2022 reporting period

Consent Condition	Non-compliance Recommendation	Corrective Action and Evidence	Status	Person/Team Responsible
Condition 50	<p>Complete the action from the 2021 IEA:</p> <p>Prepare and lodge a modification to the development consent that removes the requirement for Veolia to enforce punitive measures to non-conforming customers. As part of the modification Veolia should propose a revised condition that requires Veolia to provide further training with offending drivers.</p> <p>Note: This condition was identified</p>	<p>Veolia submitted a Modification Application to DPHI. The DPHI rejected the application.</p>	<p>Veolia is seeking advice on further corrective action.</p>	<p>Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery</p>

	as a NC in the 2021 IEA with an action to request that this condition be amended. Veolia submitted a request for modification to consent conditions (14/3/2022) requesting that the condition be changed. The decision to amend the condition is yet to be approved by DPHI, therefore the NC is to remain open and the status to be confirmed during the 2023 IEA.			
Condition 66	Review and update the Waste Management Plan to include detail for training provided to staff for the identification of asbestos in waste.	WMP was updated accordingly.	Completed.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery
Condition 114	<p>Complete the action from the 2021 IEA:</p> <p>Prepare and lodge a modification to the development consent that replaces the requirement for Veolia to undertake training with rail operators and change this to a requirement for Veolia to verify the existing training programs provided by the rail operators are suitable to minimise the risk of nuisance being caused to neighbouring properties.</p> <p>Note: This condition was identified as a NC in the 2021 IEA with an action to request that this condition be amended. Veolia submitted a request for modification to consent conditions (14/3/2022) requesting that the condition be changed. The decision to amend the condition is yet to be approved by DPHI, therefore the NC is to remain open and the status to be confirmed during the 2023 IEA.</p>	Veolia submitted a Modification Application to DPHI, which was rejected.	Veolia is seeking advice on further corrective action.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery

3.2 Current Non-Compliances

Three non-compliances were identified during the 2023 reporting period and are detailed in **Table 3.2** below, the status of corrective actions to resolve/manage the non-compliance is also provided.

Table 3.2 Non-compliances against the Consent in the 2023 reporting period

Consent Condition	Non-compliance Recommendation	Corrective Action and Evidence	Status	Person/Team Responsible
Condition 48	Due to weather and scheduling challenges, the required 6-monthly odour audit was completed 7-months after previous audit. It is recommended that more than one odour audit supplier is utilised by the Terminal to allow for greater flexibility in scheduling audits.	Veolia is investigating other contractors to undertake Odour Audits.	Open	
Condition 50	As above		Veolia is seeking advice on further corrective action.	
Condition 114	As above		Veolia is seeking advice on further corrective action.	

3.3 Previous Opportunities for Improvement

A total of six opportunities for improvement were identified during the 2022 IEA. The opportunities for improvement are detailed in **Table 3.3** below.

Table 3.3 Recommendations for Opportunities for Improvements for the 2022 reporting period

Consent Condition	Recommendation	Proposed Actions	Status	Person/Team Responsible
Condition 45	Finalise the training matrix and develop a centralised location within the Veolia document control system for the storage and maintenance for training records of all personnel	Training matrix to be developed accordingly.	Completed	Facility Manager - NSW Resource Recovery
Condition 56	Review and update the Environmental Monitoring Program (MAN-14012) to include detail describing: How monitoring will be recorded and reported to the Director-General and other relevant authorities	EMP to be updated accordingly.	Open - EMP currently being reviewed and updated.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery

	Actions to be taken and procedures to be followed if any non-compliance is detected Alternatively - replicate Table 5.4 from the OEMP into the EMP.			
Condition 102	Review and update the Stormwater Management Plan (MAN-14636-1) to include detail of new infrastructure and its purpose/function (i.e. the installation of the automatic gate and float).	SMP to be updated accordingly.	Completed.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery
Condition 134	Prepare and lodge a modification to the development consent that removes the requirement for Veolia to maintain a Community Consultative Committee.	Veolia will seek to have this condition amended by submitting an EPL variation application.	Open - to be completed following further consultation with DPPI and NSW EPA	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery
Condition 135	Prepare and lodge a modification to the development consent to remove this condition. The Community Consultative Committee was unsuccessful; therefore, the requirements of this condition are not relevant.	Veolia submitted a modification request to have this condition updated/removed.	Completed. Open - although the modification request was unsuccessful, Veolia intends to seek further advice on this issue.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery
OEMP s4.2.2.1	<p>OEMP: Prepare a standardised training package for all site personnel that specifically addresses:</p> <p>OEMP and related documents Site environmental objectives and targets</p> <p>Understanding individual authorities and responsibilities Significant project aspects, impacts and controls</p> <p>Potential consequences of departure from procedures Emergency procedure and response</p> <p>Understanding the legal obligations</p>	Veolia will prepare a standardised training package accordingly.	Completed. - Site personnel have completed Environmental Awareness Training.	Environmental Coordinator / Environmental Management Representative - NSW Resource Recovery

3.5 Complaints

The Veolia company website contains a general enquiries line whereby a complaint can be lodged and directed to the relevant facility. These contact details are also provided on-site via signage erected at the entrance of the Terminal, visible to the public.

Complaints (either written or verbal) are documented to record the following:

- Nature and extent of the complaint;
- Method by which the complaint was made;
- Name and address of the person lodging the complaint (the complainant);
- Details of all related factors including location, dates, frequency, duration, site conditions and effects of the complaint; and
- Action taken to address the complaint including follow up contact with the complainant.

No complaints were received during this reporting period.

Details of nominated personnel relevant to the complaints handling process for the Terminal are provided in **Table 3.5** below.

Table 3.5 - Details of the Terminal's nominated personnel

Contacts Name	Position
Steve Lawrence	Sydney Facilities Operations Manager
Rod Jones	Clyde Facility Manager
Anae Ressos	Environmental Coordinator / Environmental Management Representative
Nicole Boukarim	Environmental Compliance Advisor (NSW/ACT)
Sioi Matele	Site Leading Hand

3.6 Conclusion

A performance review of the Terminal between 2023 - 2024 reporting period indicates that Veolia achieved 99% compliance against the conditions for the 2022 IEA. A total of three conditions were identified to be non-compliant. Veolia was found to be compliant with all conditions of the EPL except one. The Terminal's OEMP and associated sub-plans continue to be implemented to maintain a high level of compliance.

Veolia will address and implement all corrective actions and opportunities for improvement to continue to improve its environmental compliance performance against the Consent.

Overall, the Terminal operations are satisfying the requirements of the Consent and EPL.

Terms and Definitions

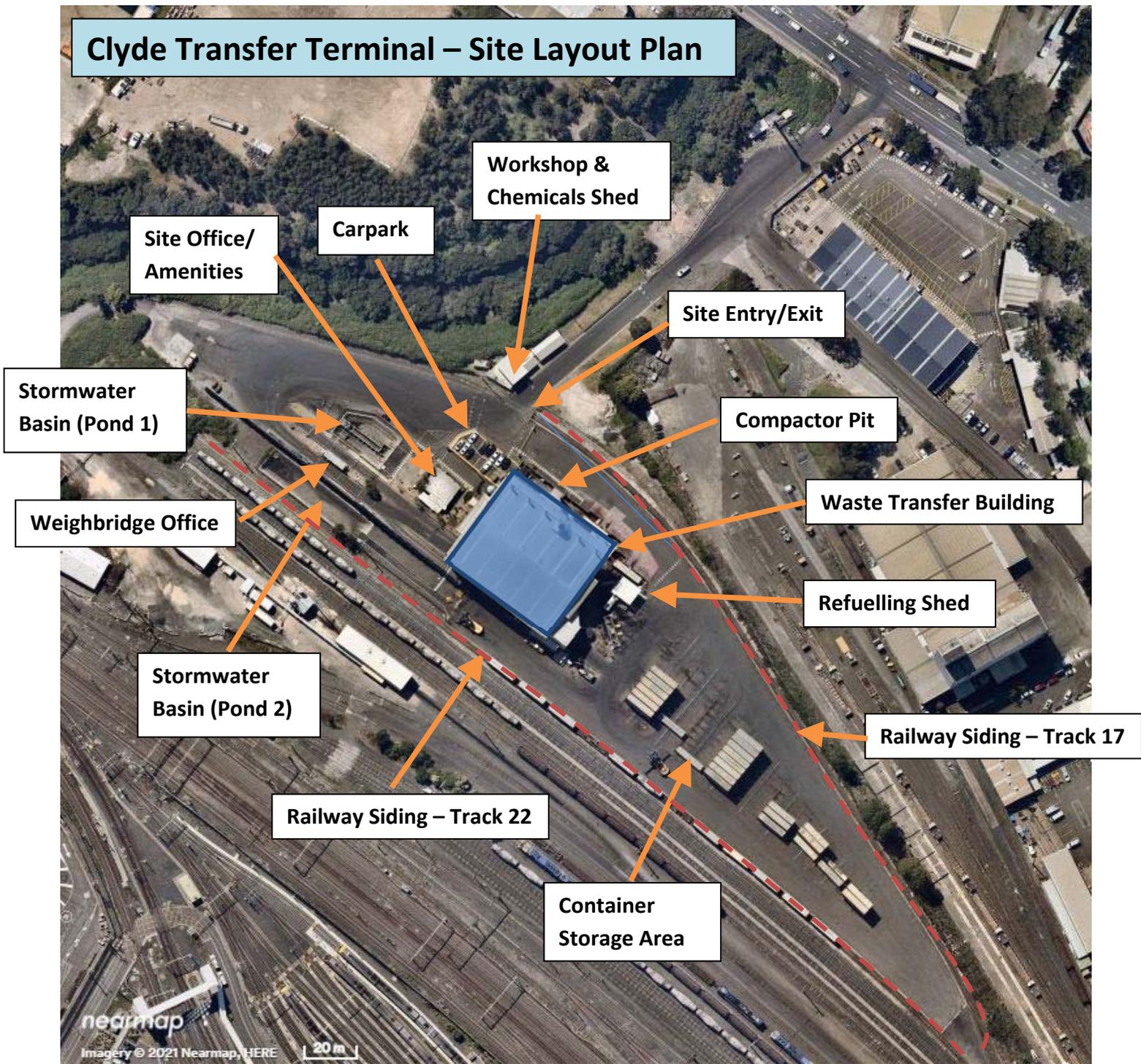
Term	Definition
AEMR	Annual Environmental Management Report
Consent	Development Consent DA 205-08-01 (and subsequent modifications)
DPHI	Department of Planning, Housing and Infrastructure
EMR	Environmental Management Representative
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
IEA	Independent Environmental Audit
OEMP	Operational Environmental Management Plan
Rivo Safeguard	Veolia's online system for reporting and managing incidents, recording audits and regulator enforcement information
SHEQ	Safety Health Environment Quality
TOU	The Odour Unit PTY LTD
The Terminal	Clyde Transfer Terminal
TPA	Tonnes per annum
TMP	Traffic Management Plan
Veolia	Veolia Australia and New Zealand
WMP	Waste Management Plan

Reference Documents

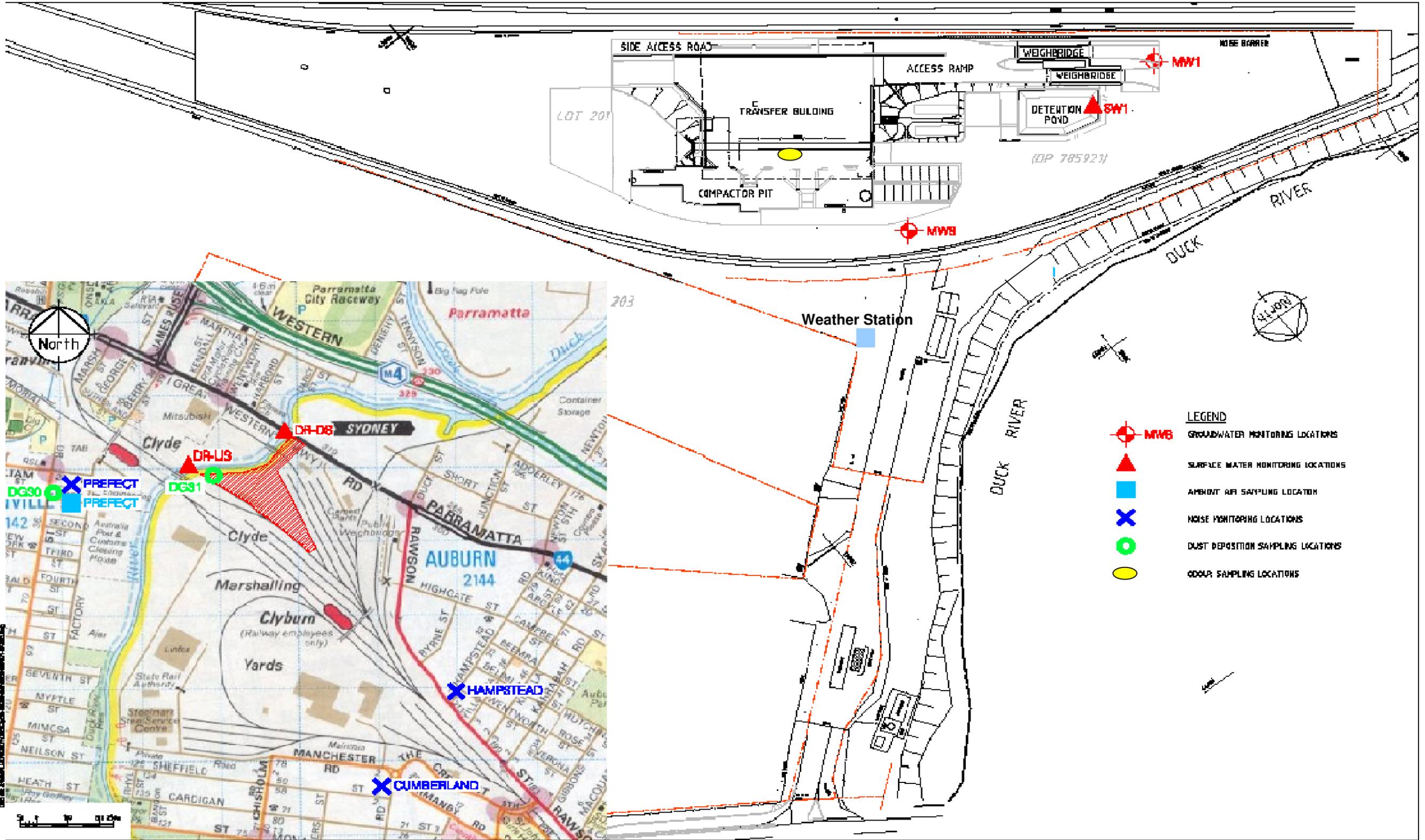
Document Name
DEC (2006). <i>Technical framework: assessment and management of odour from stationary sources in NSW</i> , Department of Environment and Conservation. November 2006
NSW EPA (2014). <i>NSW Waste Classification Guidelines</i> , NSW Environmental Protection Agency.
NSW EPA (2022). <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> . January 2022
NSW EPA (2022). <i>Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales</i> . August 2022
NSW EPA (2000). <i>NSW Industrial Noise Policy (2000)</i> , NSW Environmental Protection Agency. January 2000. (Note: the NSW Industrial Noise Policy (2000) continues to be used where it is referred to in licence and consent conditions except for Section 4 which has been replaced by the provisions in Fact Sheet C of the Noise Policy for Industry 2017.)
Maunsell McIntyre (2001). <i>Clyde Transfer Terminal Environmental Impact Statement</i> , Maunsell McIntyre Pty Ltd. August 2001
Epic Environmental (2022). <i>2022 Independent Environmental Audit Report - Clyde Waste Transfer Terminal</i> . March 2023
Veolia (2023). <i>Clyde Transfer Terminal Annual Environmental Monitoring Report 2022-2023</i> . Veolia. March 2023.

Appendix A - Site Location Plan

Clyde Transfer Terminal – Site Layout Plan



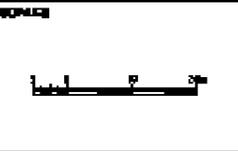
Appendix B - Environmental Monitoring Locations Plan



- LEGEND**
- MW1, MW2 GROUNDWATER MONITORING LOCATIONS
 - SW1 SURFACE WATER MONITORING LOCATIONS
 - WEATHER STATION
 - NOISE MONITORING LOCATIONS
 - DUST DEPOSITION SAMPLING LOCATIONS
 - ODOUR SAMPLING LOCATIONS

REV	DATE	BY	CHKD	DESCRIPTION
1	15/01/2014	MA	MA	ISSUED FOR PERMIT

Notes concerning the site plan and drawings are provided in the accompanying documents. The drawings are provided as a guide only and do not constitute a contract. The drawings are provided as a guide only and do not constitute a contract.



© COPYRIGHT

The drawings and designs are the property of MAUNSELL AUSTRALIA PTY LTD and may not be copied, reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Maunsell Australia Pty Ltd.

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	15/01/2014

Maunsell
 Maunsell Australia Pty Ltd
 2000 000000
 Consulting Engineers, Surveyors,
 Environmental Scientists & Project Managers

WOODLAWN
 ALUMINA
 REFRACTORY

Appendix C - Monitoring Data

Appendix C1 - Meteorological Data

4/4/2023

Anea Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 4/4/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	19.2	18.7
2m*	19.2	19.4
Relative Humidity*	84.7	85.1
Wind Speed	1.3 m/s at ground	2.1 m/s at 10 metres
Wind Direction	210	210
Solar Radiation	500	510
TBRG	10mm	20 tips
Battery/Solar	14.2	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0830 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	22.4	21.6
2m*	22.4	21.2
Relative Humidity*	67.1	66.9
Wind Speed	1.9 m/s at ground (poor exposure at ground)	2.4 m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	600	601
TBRG	10mm	20 tips
Battery/Solar	13.4	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0940 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 32655577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

9/1/2024

Anae Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 9/1/24 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 9/1/24](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	24.6	24.6
2m*	24.6	24.7
Relative Humidity*	68.7	69.2
Wind Speed	1.5 m/s at ground	1.9 m/s at 10 metres
Wind Direction	150	150
Solar Radiation	205	204
TBRG	10mm	20 tips
Battery/Solar	14.0	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0850 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 1/11/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	25.8	25.7
2m*	25.8	26.1
Relative Humidity*	60.2	58.1
Wind Speed	2.9m/s at ground (poor exposure at ground)	3.4m/s at 10 metres.

Wind Direction	90	89
Solar Radiation	580	590
TBRG	10mm	20 tips
Battery/Solar	13.7	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0750 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 3265577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

1/11/2023

Anae Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 1/11/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 1/11/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	17.6	17.6
2m*	17.6	16.8
Relative Humidity*	64.0	63.2
Wind Speed	1.6 m/s at ground	2.9 m/s at 10 metres
Wind Direction	110	110
Solar Radiation	560	525
TBRG	10mm	20 tips
Battery/Solar	14.2	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0750 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 1/11/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	21.0	20.2
2m*	21.0	20.0
Relative Humidity*	53.9	53.1
Wind Speed	1.8m/s at ground (poor exposure at ground)	1.9m/s at 10 metres.

Wind Direction	190	194
Solar Radiation	928	939
TBRG	10mm	20 tips
Battery/Solar	13.3	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0850 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 3265577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

17/7/2023

Anae Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 17/7/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	12.0	11.3
2m*	12.0	11.1
Relative Humidity*	87.2	88.0
Wind Speed	0 m/s at ground	0 m/s at 10 metres
Wind Direction	270	270
Solar Radiation	100	97
TBRG	10mm	20 tips
Battery/Solar	14.2	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0810 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	17.8	18.0
2m*	17.8	16.0
Relative Humidity*	75.5	75.6
Wind Speed	0.8m/s at ground (poor exposure at ground)	1.7m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	300	305
TBRG	10mm	20 tips
Battery/Solar	13.4	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 1020 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 32655577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

Appendix C2 - Odour Monitoring Data



VEOLIA (AUSTRALIA) PTY LTD

Clyde Waste Transfer Terminal

Odour Audit XLI

Final Report

July 2023

THE ODOUR UNIT PTY LTD

ABN 53 091 165 061
ACN 091 165 061

Level 3, Suite 12
56 Church Avenue
MASCOT, NSW 2020
P: +61 2 9209 4420

THE ODOUR UNIT (QLD) PTY LTD

ABN 87 102 255 765
ACN 102 255 765

2/57 Neumann Rd
CAPALABA, QLD 4157
P: +61 7 3245 1700
F: +61 7 3245 1800

E: info@odourunit.com.au

W: www.odourunit.com.au

This document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. This document should not be used or copied without written authorisation from **THE ODOUR UNIT PTY LTD** or **VEOLIA (AUSTRALIA) PTY LTD**.

Project Number: N1473

Report Revision		
Revision Number	Date	Description
Initial Draft Report	22.12.2023	Pending documentation from Client
Draft Report	02.12.2024	Draft report issued to the Client
Final Report	11.02.2024	Final report issued to the Client
Report Preparation		
Report Prepared By:	Reviewed and Approved By:	
		
Isaac Farrugia B. Eng (Chem) Consultant Engineer	Michael Assal MEngSc, B. Eng (Hon)/B. Sc., AMIChemE, MIEAust, CAQP Operations Manager	
Report Title: Veolia (Australia) Pty Ltd Clyde Waste Transfer Terminal – Odour Audit XLI		

CONTENTS

1	INTRODUCTION	1
1.1	Odour Audit Period.....	1
1.2	Odour Audit Requirements	1
1.3	Prevailing Weather Conditions	2
2	ODOUR AUDIT FINDINGS	3
2.1	Assessment of General Housekeeping	3
2.1.1	Transfer Terminal Building.....	3
2.1.2	Container Packing Area and Site Roadways	3
2.1.3	Odour Management Plan.....	4
2.1.4	Odour Extraction System Maintenance.....	5
2.1.5	Odour Management Procedures/Plan.....	5
2.1.6	Transfer Terminal Building.....	6
2.1.7	Truck Entrance Plastic Strips.....	6
2.1.8	Smoke Testing.....	7
2.2	Odour Complaints Handling and Meteorological Data	9
2.2.1	Odour Complaints Handling.....	9
2.2.2	Meteorological Data.....	9
2.3	Field Ambient Odour Assessment Methodology	9
2.3.1	Field Ambient Odour Assessment – Results.....	10
3	RECOMMENDATIONS/FOLLOW-UP ACTIONS	11
3.1	Previous Audit Actions	11
3.2	Transfer Terminal Building	11
3.3	Compactor Area	11
3.4	Odour Extraction System	11
3.5	Weather Station	12
3.6	Off-site Odour Impacts	12
3.7	Odour Management Procedures/Plan	12
3.8	Concluding Remark.....	12

FIGURES, PHOTOS & TABLES

FIGURES

Figure 2.1	– Smoke testing release points within the TTB on 5 July 2023.....	7
-------------------	---	----------

PHOTOS

Photo 2.1	– TTB waste on-floor as found on 5 July 2023 (during a smoke test).....	3
Photo 2.2	– A view of the container area as found on 5 July 2023.....	5
Photo 2.3	– A view of the truck entrance plastic strips as found on 5 July 2023.....	6
Photo 2.4	– A view of the truck entrance plastic strips during smoke testing on 5 July 2023	8

TABLES

Table 2.1	– VDI 3882 Odour Intensity Categories.....	10
------------------	--	-----------

APPENDICES

APPENDIX A: Odour Extraction System Service Reports (December 2022 – July 2023)

APPENDIX B: Weather Data Calibration Reports (January 2023, April 2023 & July 2023)

APPENDIX C: Field Ambient Odour Assessment Plot and Field Sheet (5 July 2023)

LIST OF ABBREVIATIONS AND DEFINITIONS

FAOA	Field Ambient Odour Assessment
HCS	Hydrometric Consulting Services
the Draft OEMP	The draft version of the <i>Operational Environmental Management Plan</i> dated 6 November 2020
the February 2010 OMP	Odour Management Plan dated February 2010
the Odour Audit	Odour Audit XLI covering the period between 21 December 2022 and 5 July 2023
the September 2017 Container Preparation Document	Waste container preparation requirements for the Clyde TT
the September 2017 NSW RR Container Document	<i>NSW Resource Recovery – Container Maintenance</i> dated 15 September 2017
the Clyde TT	Veolia Clyde Transfer Terminal
TOU	The Odour Unit Pty Ltd
TTB	Transfer Terminal Building
Veolia	Veolia (Australia) Pty Ltd

UNITS OF MEASUREMENTS

°C	degrees Celsius
m/s	metres per second

1 INTRODUCTION

The Odour Unit Pty Ltd (**TOU**) was commissioned by Veolia (Australia) Pty Ltd (**Veolia**) to undertake the forty-first (**XLI**) Odour Audit at the Clyde Transfer Terminal (the **Clyde TT**). The visit for Odour Audit XLI was undertaken on 5 July 2023 and is part of an ongoing six-monthly odour audit surveillance program that has been completed since the commissioning of the forced air extraction system at the Clyde TT.

1.1 ODOUR AUDIT PERIOD

Odour Audit XLI covers the period between 21 December 2022 and 5 July 2023 (the **Odour Audit**).

1.2 ODOUR AUDIT REQUIREMENTS

The Odour Audit requirements originate from the *Conditions of Consent – 48(f)* and are outlined as follows:

“48. The Odour Management Plan must address, but is not necessarily limited to, the following issues:

(f) An odour audit program which provides for a comprehensive odour audit of the premises and nearby commercial and residential areas, by an independent, appropriately qualified and experienced person, to be conducted 3-monthly for the initial 24 months of receiving un-containerised waste at the terminal, 3-monthly for the 12 months following commissioning the odour control system subject to MOD-133-11-2006, and 6-monthly thereafter, unless otherwise approved in writing by the Director-General.”

As with previous odour audits, Odour Audit XLI focused on issues relating to general housekeeping, fugitive odour emissions from the transfer building, ground level odour impacts, meteorological monitoring, complaints handling, and actions on past odour audit recommendations. Specifically, the Odour Audit approach included:

- A general inspection and smoke testing of the transfer building;
- The inspection of the container packing area and site access roads;
- The examination of the complaint register;
- The review of the on-site meteorological data log and equipment maintenance/calibration;
- The analysis of relevant documentation relating to odour management; and
- The undertaking of an off-site downwind Field Ambient Odour Assessment (**FAOA**) survey.

1.3 PREVAILING WEATHER CONDITIONS

At the time of the Odour Audit visit, the prevailing weather conditions were light to moderate (2.0 – 4.0 metres per second (**m/s**)) wind speeds with the local wind direction blowing predominantly from the west-northwest. The skies lightly covered and the ambient temperature during the Odour Audit visit was between 17 and 21 degrees Celsius (**°C**) during the Odour Audit visit. No rainfall was observed during the Odour Audit visit.

2 ODOUR AUDIT FINDINGS

2.1 ASSESSMENT OF GENERAL HOUSEKEEPING

2.1.1 Transfer Terminal Building

During the Odour Audit visit, there were approximately 140 tonnes of waste on the floor. This tonnage is within the normal operating range of the Transfer Terminal Building (TTB). The TTB floor area not covered by waste material was observed to be reasonably clean, with little evidence of leachate or aged material. The general housekeeping procedures of the TTB were good, as found during several truck-unloading sequences. It was also observed that the TTB's front-end loaders cleared the floor area of waste on a regular basis, minimising the exposed area of waste.

As with previous audits, and consistent with TOU's experience at other waste transfer stations, there was a weak to distinct level of odour observed within the TTB. A photo of the waste on the floor as found during the Odour Audit visit is shown in Photo 2.1.

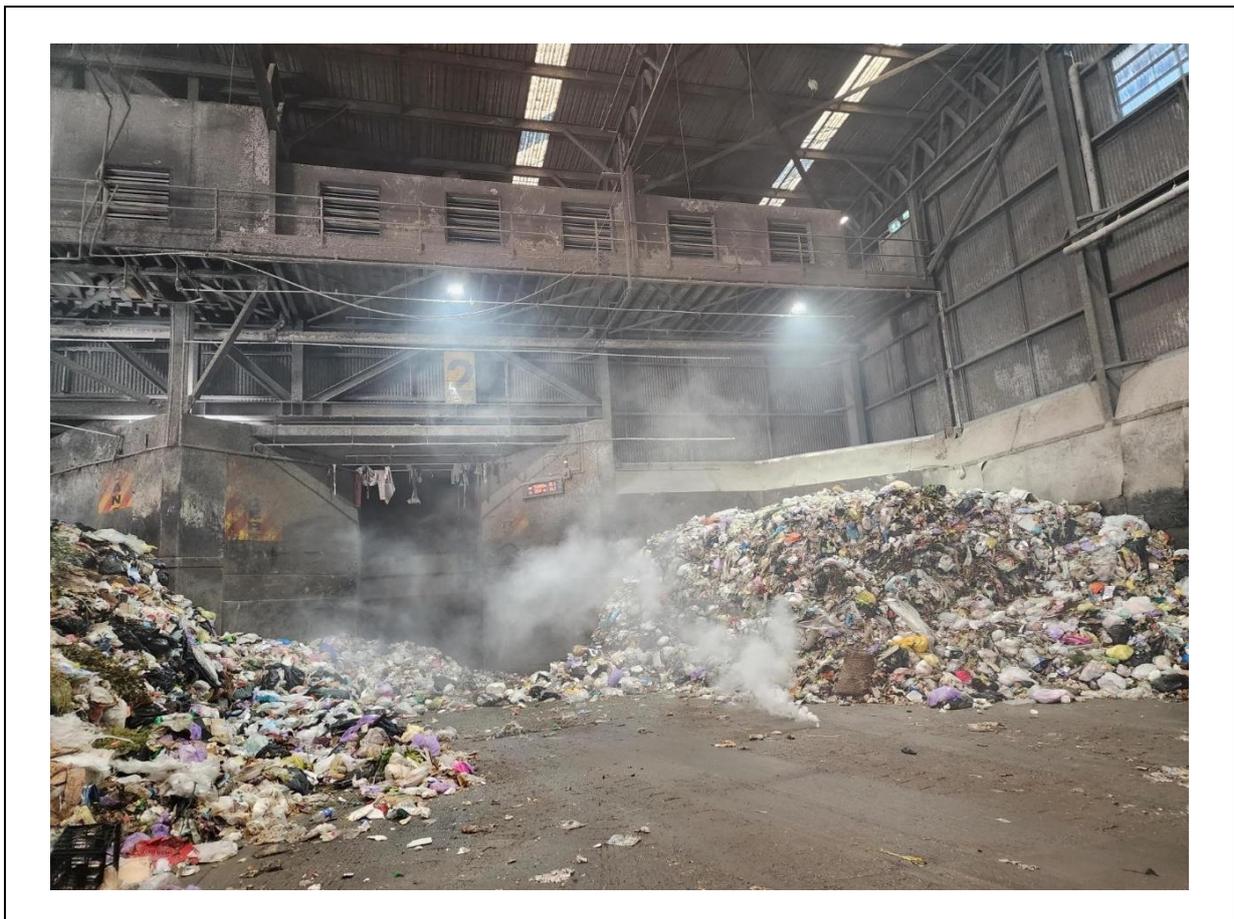


Photo 2.1 – TTB waste on-floor as found on 5 July 2023 (during a smoke test)

2.1.2 Container Packing Area and Site Roadways

The container packing area and site roadways were found to be clean and well managed with no evidence of waste or exposed leachate. Like previous odour audits,

the container compacting/train packing area had a weak to distinct odour that was intermittently detectable but was confined to this area only (refer to **Appendix B** for FAOA results). TOU was advised by a Veolia personnel that one of the two compactors were in operation at the time of the Odour Audit visit. The general housekeeping around this area was observed to be maintained to a high quality, with no evidence to suggest otherwise.

As with previous Odour Audits, the containers are cleaned off-site at Veolia's Woodlawn Bioreactor Facility before being returned to the Clyde TT. The weight of each container is monitored to determine if there is any waste that has not been removed completely from each container, which in turn reduces the likelihood of the containers contributing to the Clyde TT's odour levels.

2.1.2.1 Container Management and Maintenance

Based on previous discussions with the Veolia team and observations made during the visit, the Odour Audit finds that Veolia continues to implement the policies and procedures as outlined in the following documents:

- The container management and maintenance procedures titled *NSW Resource Recovery – Container Maintenance* dated 15 September 2017 (the **September 2017 NSW RR Container Document**), which details the following:
 - The design of the containers;
 - The maintenance and management of the activated carbon filter retrofitted to the containers;
 - The container management procedure; and
 - The container maintenance procedure.
- The waste container preparation requirements for the Clyde TT (the **September 2017 Container Preparation Document**), which details the following:
 - The inspections and actions to be undertaken by operators to enable containers to be prepared to an acceptable standard;
 - The steps to be undertaken should a damaged container be identified; and
 - The steps to be undertaken should a leaking container be identified.

2.1.3 Odour Management Plan

As per the Odour Management Plan dated February 2010 (the **February 2010 OMP**) for the Clyde TT, following the compaction of waste, all filled containers are entirely sealed and remain so while at the Clyde TT. All containers used are required to be in good condition, and unused/returned containers adequately clean. The Odour Audit finds that this continues to be current practice at the Clyde TT. A view of the condition of the container area as found on 21 December 2022 is shown in **Photo 2.2**.



Photo 2.2 – A view of the container area as found on 5 July 2023

2.1.4 Odour Extraction System Maintenance

The service documentation for the maintenance of the odour extraction system was supplied and reviewed as part of the Odour Audit (refer to **Appendix A**). The service logs were provided covering the period between December 2022 to July 2023.

Each service log provided to the Odour Audit indicated that the required inspection and maintenance works were taking place by a suitable service contractor, and the odour extraction system overall was operating efficiently. The service logs during this period noted that all the necessary support works such as cleaning filters, checking the fan belts and unit operations, greasing bearings, component replacement, and other routine preventative maintenance works were being inspected and undertaken.

Given the above and based on the positive results obtained for the smoke testing, odour complaints register, and the FAOA survey conducted as part of the Odour Audit visit, it appears that the current operation of the odour extraction system is satisfactory.

2.1.5 Odour Management Procedures/Plan

The Odour Management Procedures (formerly known as the Odour Minimising Procedures) continue to be regularly reviewed at toolbox meetings, and contemporary issues/recommendations are raised with all staff members at these meetings.

Veolia has advised The Odour Audit that the February 2010 OMP is still in the process of being reviewed and updated. However, TOU was provided a copy of the draft *Operational Environmental Management Plan* for the Clyde TT dated 6 November 2020 (the **Draft OEMP**). Upon finalisation of the Draft OEMP and consolidation of all referenced documents, the Odour Audit will review this document in its entirety. Nevertheless, the annual review and commitment to continuous improvement to the operational and environmental management procedures and practices at the Clyde TT is endorsed by the Odour Audit.

2.1.6 Transfer Terminal Building

The Odour Audit inspected the fixed metal plates retrofitted along the TTB breezeways in December 2013. All metal plates were found to be intact and in good condition around the TTB. All doors and roller shutters of the TTB were found to be shut at the time of the Odour Audit, reducing the likelihood of odour impacts detected off-site. The louvres on the end walls of the TTB were observed to be permanently shut. The yellow door on the southeastern side of the receival hall has exposed area that could lead to fugitive emission of odour.

2.1.7 Truck Entrance Plastic Strips

The truck entrance plastic strips of the TTB, used to reduce odour escaping through the opening, were found to be superficially damaged and in a state to function and effectively reduce air movement at the top section of the truck entrance (refer to **Photo 2.3**).

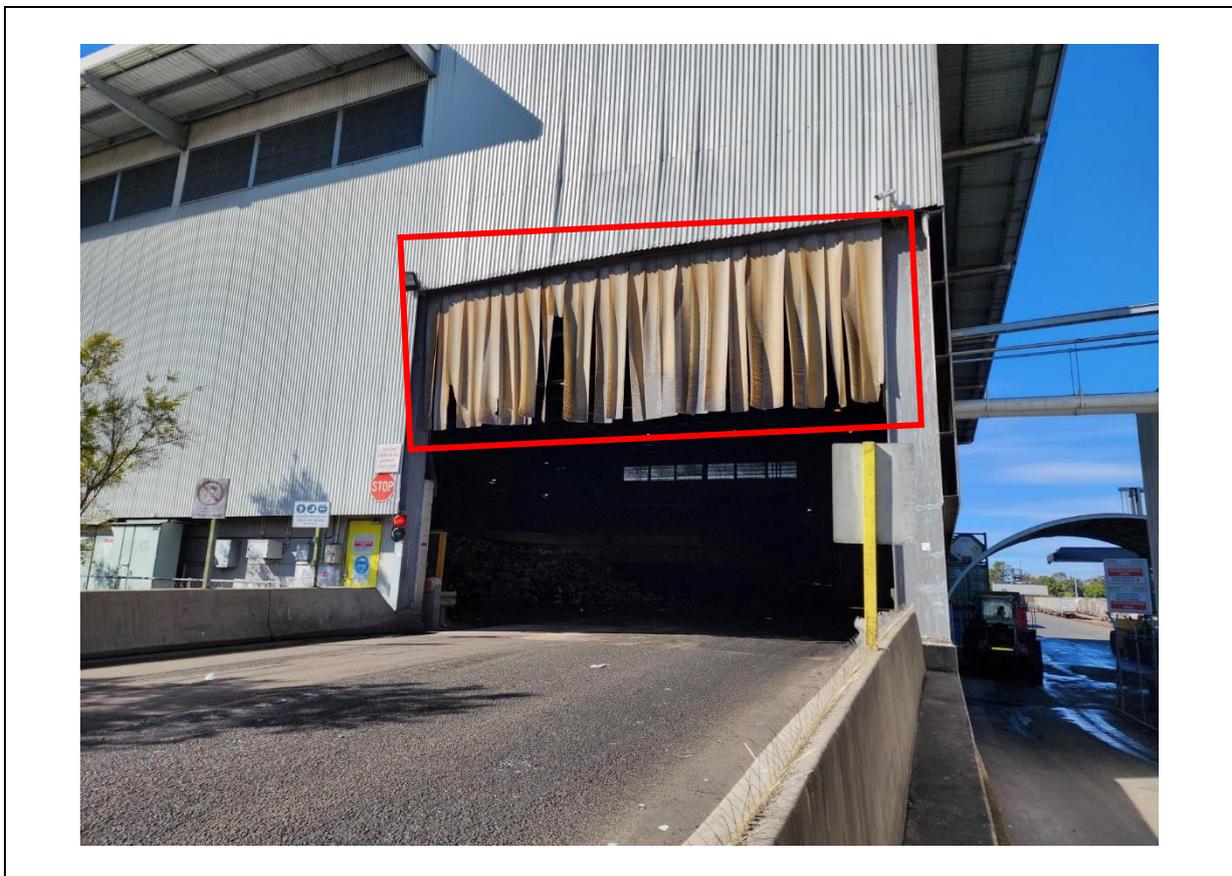


Photo 2.3 – A view of the truck entrance plastic strips as found on 5 July 2023

2.1.8 Smoke Testing

As per previous audits, smoke testing was carried out within the TTB to assist in determining the effectiveness of the forced air extraction system, as well as the extent to which the TTB has been sealed from leaks. As per previous audits, smoke was released from within the TTB at three points within the TTB. **Figure 2.1** shows the three points where the smoke was released within the TTB. **Photo 2.4** shows smoke testing at the truck entrance of the TTB, which reflects an additional test location to the normal smoke testing release points shown in **Figure 2.1**.

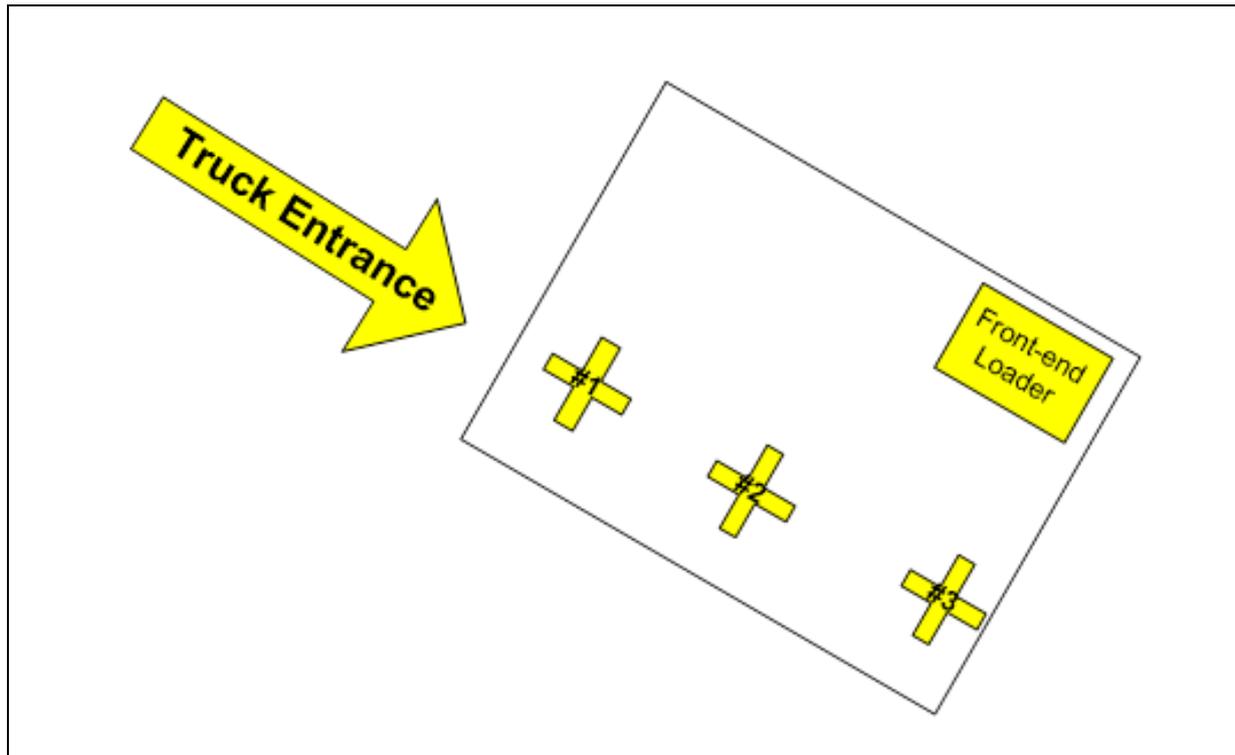


Figure 2.1 – Smoke testing release points within the TTB on 5 July 2023



Photo 2.4 – A view of the truck entrance plastic strips during smoke testing on 5 July 2023

2.1.8.1 Smoke Testing Results

Smoke Testing Point #1

The smoke released at this point initially moved horizontally inwards and gradually rose towards the extraction system. Visible smoke extraction at the overhead capture points was evident during the smoke testing at this point.

Smoke Testing Point #2

The smoke released at this point gradually rose towards the roof and then towards the extraction system.

Smoke Testing Point #3

The smoke released at this point revealed a similar result to that documented for smoke testing point #2.

2.2 ODOUR COMPLAINTS HANDLING AND METEOROLOGICAL DATA

2.2.1 Odour Complaints Handling

As advised by Veolia personnel, there continue to have been no complaints recorded in the Clyde TT's complaints register since March 2012.

2.2.2 Meteorological Data

The meteorological data provided to the Odour Audit, covering the period of between December 2022 and July 2023, was inspected and found to be in good order. As found in previous Odour Audits, the observations were provided in daily 15-minute intervals and included all parameters necessary to develop a meteorological dataset for odour dispersion modelling.

As indicated via service records completed by Hydrometric Consulting Services (**HCS**) supplied by Veolia to the Odour Audit, the weather station continues to remain located in an accessible area with the solar panel and components regularly cleaned, and installation sprayed periodically for insects and trimming of nearby vegetation as required to ensure no overgrowth immediately around the weather station pole. Overall, HCS indicated that the weather stations were operating well, and any identified issues were rectified. The weather data calibration and service reports by HCS are appended as **Appendix B**.

2.3 FIELD AMBIENT ODOUR ASSESSMENT METHODOLOGY

At present, no Australian Standard exists for field-based ambient odour assessment surveys. Consequently, TOU utilises a method for assessing the ground-level impacts of odour emissions using a modified version of the German Standard VDI 3940 (1993) – *'Determination of Odorants in Ambient Air by Field Inspections'*.

Field-based ambient odour surveys are considered a valuable odour impact assessment tool as previous experience with ambient odour sampling and subsequent olfactometry testing suggests that accurate and useful ambient odour concentration data is difficult to obtain. Therefore, TOU has adopted a more practical approach based on the field measurement of odour intensity. With this method, calibrated and experienced odour specialists traverse the downwind surrounds of odour sources in a strategically mapped pattern, assessing the presence, character and intensity of any odours encountered and recording these observations along with wind speed and direction.

An ambient odour assessment was performed on 5 July 2023 between 1315 hrs and 1416 hrs. The FAOA survey was undertaken at strategic off-site locations during the Odour Audit due to prevailing meteorological conditions. The ambient odour assessment focus was off-site, as required by the Conditions of Consent on ".....*nearby commercial and residential areas.....*" (Section 48 (f)). The TOU assessor firstly determined the wind direction using a Kestrel 4500 Pocket Weather Tracker Anemometer and then assessed upwind and downwind locations of the TTB.

The assessors spent approximately five minutes at each assessment location to gauge the effects of any odour impact. If an odour was detected at a location, the assessors attempted to characterise it. The general aim was to determine the extent of the impact

of odours off-site and rank their intensity. The ranking scale for the German Standard VDI 3940 '*Determination of Odorants in Ambient Air by Field Inspections*' was used for the intensity assessments. The standard's ranking system is based on the following seven-point intensity scale, as shown in **Table 2.1**.

Table 2.1 – VDI 3882 Odour Intensity Categories		
Odour Strength	Intensity Rank (code)	TOU Interpretation (meaning)
Not detectable	0	No odour detected
Very weak	1	Odour detected but not strong enough to be characterised
Weak	2	Odour is weak but just able to be characterised
Distinct	3	Odour is distinct and easily characterised
Strong	4	Strong odour detectable
Very Strong	5	If offensive, the observer may consider moving from the area
Extremely Strong	6	Odour is sufficiently over-powering that assessor moves from the area

2.3.1 Field Ambient Odour Assessment – Results

The results of the FAOA survey conducted during the Odour Audit found that whilst intermittent odours were detected on-site, no odours were detectable off-site that could be linked back to the Clyde TT and its activities. This is a good outcome and reflects the findings from previous odour audits. The field log sheets, and visual survey plot are appended as **Appendix C**.

3 RECOMMENDATIONS/FOLLOW-UP ACTIONS

3.1 PREVIOUS AUDIT ACTIONS

The following list provides an outline of the last December 2022 odour audit actions and status as of the Odour Audit:

- **Previous Audit Action 1:** *Action 1 – Continue with the on-going review and commitment to continuous improvement of the Draft OEMP and referenced documents.*
- **Status:** On-going and will be reassessed in the next odour audit (refer to **Section 3.7**).

3.2 TRANSFER TERMINAL BUILDING

All metal plates were found to be intact and in good condition around the TTB. All doors and roller shutters of the TTB were found to be shut at the time of the Odour Audit, reducing the likelihood of odour impacts detected off-site. The louvres on the end walls of the TTB were observed to be permanently shut. The truck entrance plastic strips were superficially damaged, but functional and effective. The yellow door on the southeastern side of the receival hall requires plastic strips to mitigate fugitive odour emission. Overall, the TTB was found to be well-managed.

Based on the findings in the Odour Audit, the following action is recommended:

- **Install plastic strips on the yellow door on the southeast of the receival hall.**

3.3 COMPACTOR AREA

The general housekeeping around the compactor area was observed to be of high quality, with no evidence to suggest otherwise. As with previous Odour Audits, the container compacting/train packing area had a Weak (Odour Intensity 2) to Distinct (Odour Intensity 3) odour that was intermittently detectable but was found to be confined to this area only.

Based on the findings in this Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

3.4 ODOUR EXTRACTION SYSTEM

The service logs indicate that all required maintenance works on the odour extraction system since the previous December 2022 odour audit have been adequately undertaken, and the odour extraction system is operating in a satisfactory condition.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

3.5 WEATHER STATION

The dataset obtained from the weather station was found to be adequate. Moreover, the calibration and service reports from HCS indicate that all maintenance to the weather station and required calibrations were carried out as needed.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

3.6 OFF-SITE ODOUR IMPACTS

The results of the FAOA survey conducted during the Odour Audit found that no odours were detectable off-site that could be linked back to the Clyde TT and its activities.

Based on the findings in the Odour Audit, the following action is recommended:

- **No further action is required at this stage.**

3.7 ODOUR MANAGEMENT PROCEDURES/PLAN

At the timing of the writing of the Odour Audit, the February 2010 OMP was last updated over eight years ago. Given the previous update, it is suggested that as part of good practice that Veolia reviews and update the February 2010 OMP to ensure it continues to reflect the odour management procedures implemented and followed at the Clyde TT. TOU was provided a copy of the Draft OEMP. Upon finalisation of the Draft OEMP and consolidation of all referenced documents, the Odour Audit will review this document in its entirety. Nevertheless, the annual review and commitment to continuous improvement to the operational and environmental management procedures and practices at the Clyde TT is endorsed by the Odour Audit.

Based on the findings in this Odour Audit, the following action/s is recommended:

- **Action 1 – Continue with the on-going review and commitment to continuous improvement of the Draft OEMP and referenced documents.**

3.8 CONCLUDING REMARK

Overall, this Odour Audit found that the operation and maintenance of the odour management system at the Clyde TT was excellent. There was no evidence to suggest that significant fugitive odour emission release from the Clyde TT is occurring.

The next Odour Audit is due in **February 2024**.



VEOLIA (AUSTRALIA) PTY LTD

Clyde Waste Transfer Terminal

Odour Audit XLI

Appendices

July 2023



APPENDIX A:
ODOUR EXTRACTION SYSTEM SERVICE REPORTS
(DECEMBER 2022 – JULY 2023)



**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey
Preventative Maintenance**

Project Name Monthly Maintenance

Date Created 21/12/2022

PO # 7100410672

Site Details

Name Veolia Clyde
Address Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142
Contact Rod Jones
Telephone
Mobile 0437 167 211
Email rod.jones@veolia.com

Customer Details

Name Veolia Environmental Services P/L
Address Level 4, 65 Pirrama Road
 Pyrmont NSW 2009
Contact Bob Manevski
Telephone (02) 9841 2802
Mobile 0412 275 133
Email bob.manevski@veolia.com

Work Requested

Attend Site and carry out maintenance for the month of January

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (06/01/2023) - Work Note

Firstly conducted maintenance on AC systems serving the main admin office.
 This includes 7 systems ranging from wall split systems to Room Air Conditioners.
 Also included is 1 wall split system serving weighbridge office.
 Filters are all okay
 Condensate drains have been flushed and cleared
 Checked operations of systems in full cooling mode and high fan speed
 Checked electrical components
 Checked for faults and/or damage to units
 Checked airflows are sufficient
 Checked room temperatures are matching setpoint.
 All tested okay.

Conducted maintenance on 2 extraction air fans serving the compactor pit.
 Belts, pulleys and bearings are in good condition
 Cleaned off dust and debris from motors
 Greased fan shaft bearings
 Checked condition of VSDs and cleaned off dust and debris.
 Checked over parameters and data of drives.
 All tested okay.

Equilibrium Air Conditioning Services Pty Ltd
ABN 51 844 035 531

Telephone: (02) 9439 4822
service@egac.com.au

PO Box 7996
Norwest NSW 2153



**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey
Preventative Maintenance**

Equilibrium Air Conditioning Services Pty Ltd

ABN 51 844 035 531

Telephone: (02) 9439 4822

service@egac.com.au

PO Box 7996

Norwest NSW 2153



**CUSTOMER JOB NO. 33254 - 3516 - Kyle Dempsey
Preventative Maintenance**

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:

Rod Jones

A handwritten signature in black ink, appearing to be "Rod Jones", written over a horizontal line.

Print Name

Signature

Technician:

Kyle Dempsey

A handwritten signature in black ink, appearing to be "Kyle Dempsey", written over a horizontal line.

Print Name

Signature

Equilibrium Air Conditioning Services Pty Limited
 Unit 7, 38 Brookhollow Ave
 Norwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33254
Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 06/01/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	06/01/2023		Pass
Notes	Checked condition of VSD, checked over parameters and data, cleaned off dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSDURN	0BLAPAJFA00098 V	Meeting room	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	06/01/2023		Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.								
3253	Change room RAC	Changeroom	TECO	TWW16CFGG		Change room	06/01/2023		Pass

Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.							
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	06/01/2023	Pass
Notes	Filter is okay, condensate drain has been flushed and clear, tested operations of system in full cooling mode and high fan speed, checked electrical components, checked for faults and/or damage to unit, checked airflow is sufficient, checked room temperature is matching setpoint. All tested okay.							

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	06/01/2023		Pass
Notes	Belts, pulleys and bearings are in good condition, cleaned off dust and debris from motor, greased fan shaft bearings, checked condition of VSD and cleaned. All tested okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	06/01/2023		Pass
Notes	Belts, pulleys and bearings are in good condition, cleaned off dust and debris from motor, greased fan shaft bearings, checked condition of VSD and cleaned. All tested okay.								

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	06/01/2023		Pass
Notes	Checked condition of VSD, checked over parameters and data, cleaned off dust and debris. All tested okay.								

Description Of Work

Attend Site and carry out maintenance for the month of January

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02

- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (06/01/2023) - Work Note

Firstly conducted maintenance on AC systems serving the main admin office. This includes 7 systems ranging from wall split systems to Room Air Conditioners. Also included is 1 wall split system serving weighbridge office.

Filters are all okay

Condensate drains have been flushed and cleared

Checked operations of systems in full cooling mode and high fan speed

Checked electrical components

Checked for faults and/or damage to units

Checked airflows are sufficient

Checked room temperatures are matching setpoint.

All tested okay.

Conducted maintenance on 2 extraction air fans serving the compactor pit.

Belts, pulleys and bearings are in good condition

Cleaned off dust and debris from motors

Greased fan shaft bearings

Checked condition of VSDs and cleaned off dust and debris.

Checked over parameters and data of drives.

All tested okay.

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33254
Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 06/01/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Comments / Recommendations

--

Technician (Print Name):

Kyle Dempsey



Technician (Signature):

Licence No.

L141692

Customer (Print Name):

Rod Jones



Customer (Signature):

Customer (Print Name):

Equilibrium Air Conditioning Services Pty Limited
 Unit 7, 38 Brookhollow Ave
 Northwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33340

Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 20/02/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass/
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	20/02/2023		Pass

Asset Register - Air-Cooled DX units / Split Systems

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	20/02/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	20/02/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	20/02/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSSFDURN	0BLAPAJFA00098	Meeting room	20/02/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	20/02/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	20/02/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	20/02/2023		Pass

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	20/02/2023		Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	20/02/2023		Pass

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33340

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 20/02/2023
Contact: Bob Marevski
Phone: (02) 9841 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	20/02/2023		Pass

Description Of Work

Attend Site and carry out maintenance for the month of Feb 2023
Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Dylan Mengel (20/02/2023) - Work Note

9x split system air conditioner's.
Washed filters
Flushed drains and tightened electrical terminals.
Tested on full cooling and heating modes to ensure set-point is reached.
Tested on high fan speed to confirm airflow is good. All tested ok.
2x extraction fans.
Checked belts tension and for damage.
Belts are ok.
Greased motor and fan bearings
Checked VSD's and general operations of extraction fans.

Equilibrium Air Conditioning Services Pty Ltd
ABN 51 844 035 531



Telephone: (02) 9439 4822
service@eqac.com.au

PO Box 7996
Norwest NSW 2153

**CUSTOMER JOB NO. 33340 - 3636 - Dylan Mengel
Preventative Maintenance**

Project Name Monthly Maintenance

Date Created 06/02/2023

PO # 7100410672

Site Details

Name Veolia Clyde
Address Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142
Contact Rod Jones
Telephone
Mobile 0437 167 211
Email rod.jones@veolia.com

Customer Details

Name Veolia Environmental Services P/L
Address Level 4, 65 Pirrama Road
Pyrmont NSW 2009
Contact Bob Manevski
Telephone (02) 9841 2802
Mobile 0412 275 133
Email bob.manevski@veolia.com

Work Requested

Attend Site and carry out maintenance for the month of Feb 2023
Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Dylan Mengel (20/02/2023) - Work Note

9x split system air conditioner's.
Washed filters
Washed drains and tightened electrical terminals.
Tested on full cooling and heating modes to ensure set-point is reached.
Tested on high fan speed to confirm airflow is good. All tested ok.
2x extraction fans.
Checked belts tension and for damage.
Belts are ok.
Greased motor and fan bearings
Checked VSD's and general operations of extraction fans.
All tested ok.

Equilibrium Air Conditioning Services Pty Ltd
ABN 51 844 035 531

Telephone: (02) 9439 4822
service@eqac.com.au

PO Box 7996
Norwest NSW 2153



**CUSTOMER JOB NO. 33340 - 3636 - Dylan Mengel
Preventative Maintenance**

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:

Rod Jones

Print Name

A handwritten signature in black ink, appearing to read "Rod Jones", written over a horizontal line.

Signature

Technician:

Dylan Mengel

Print Name

A handwritten signature in black ink, appearing to read "Dylan Mengel", written over a horizontal line.

Signature

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
 Norwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33453

Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 23/03/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	23/03/2023		Pass
Notes: Checked condition and parameters of VSD. Cleaned off silt and debris. All tested okay.									

Asset Register - Air-Cooled DX units / Split Systems

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	23/03/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	23/03/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	23/03/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSFS DURN V	0BLAPAJFA00098	Meeting room	23/03/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	23/03/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	23/03/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	23/03/2023		Pass

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	23/03/2023		Pass
Notes: - Had replaced belts on pulley, after cracks appeared. Had greased fan motor and fan shaft bearings. Cleaned over motor of dust and debris. Pulley and bearings in good condition. All tested okay.									

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
 Norwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33453

Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 23/03/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	23/03/2023		Pass
Notes - Had replaced belts on pulley, after cracks appeared. Had greased fan motor and fan shaft bearings. Cleaned over motor of dust and debris. Pulley and bearings in good condition. All tested okay.									

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	23/03/2023		Pass
Notes Checked condition and parameters of VSD. Cleaned off sif and debris. All tested okay.									

Description Of Work

Attend Site and carry out maintenance for the month of March

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (13/03/2023) - Work Note

Attended site to conduct March maintenance
 Firstly conducted maintenance on 2 extraction fans above the compactor pit.

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33453

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 23/03/2023

Contact: Bob Manevski
Phone: (02) 9841 2802

Isolated fans at switchboard and isolated alarm.

Greased fan motor and fan shaft bearings

Cleaned over VSDs and motors of dust and debris.

Found on fan 1 that belts had cracked.

Used spare belts on site to replace damaged belts.

Removed housing for pulleys

Removed old belts

Placed new belts on pulleys.

Belt tension was too tight, had to adjust motor position.

Checked alignment of pulleys once motor was moved.

Placed housing back over the belts/pulleys.

Switched power on back at the switchboard and monitored fan performance.

Turned alarm back on after fans were operating normally.

Will need to order a new set of belts as spares on site.

Conducted maintenance on indoor wall split units serving the administration office and weighbridge office.

Cleaned filters

Flushed and cleared drains

Checked operations of each system in full cooling mode and high fan speed

Checked electrical components

Checked for faults and/or damage to units.

Fan barrels on kitchen AC and comms room AC are getting dirty and blocked up this is affecting airflow. Will need to clean out on next maintenance.

Due to wet weather conditions could not conduct maintenance on outdoor units serving administration office and weighbridge office.



ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33453 - 3750 - Kyle Dempsey
Preventative Maintenance**

Project Name

Monthly Maintenance - March

Date Created

07/03/2023

PO #

7100410672

Site Details

Name	Veolia Clyde
Address	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
Contact	Rod Jones
Telephone	0437 167 211
Mobile	rod.jones@veolia.com
Email	

Customer Details

Name	Veolia Environmental Services P/L
Address	Level 4, 65 Pirrama Road Pyrmont NSW 2009
Contact	Bob Manevski
Telephone	(02) 9841 2802
Mobile	0412 275 133
Email	bob.manevski@veolia.com

Work Requested

Attend Site and carry out maintenance for the month of March

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (13/03/2023) - Work Note

Ended site to conduct March maintenance

Firstly conducted maintenance on 2 extraction fans above the compactor pit.

Isolated fans at switchboard and isolated alarm.

Greased fan motor and fan shaft bearings

Cleaned over VSDs and motors of dust and debris.

Found on fan 1 that belts had cracked.

Used spare belts on site to replace damaged belts.

Removed housing for pulleys

Removed old belts

Placed new belts on pulleys.

Belt tension was too tight, had to adjust motor position.

Checked alignment of pulleys once motor was moved.

Placed housing back over the belts/pulleys.

Switched power on back at the switchboard and monitored fan performance.

Turned alarm back on after fans were operating normally.

Will need to order a new set of belts as spares on site.

Conducted maintenance on indoor wall split units serving the administration office and weighbridge office.
Cleaned filters

ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153



**CUSTOMER JOB NO. 33453 - 3750 - Kyle Dempsey
Preventative Maintenance**

Flushed and cleared drains
Checked operations of each system in full cooling mode and high fan speed
Checked electrical components

Checked for faults and/or damage to units.

Fan barrels on kitchen AC and comms room AC are getting dirty and blocked up this is affecting airflow. Will need to
fan out on next maintenance.

Due to wet weather conditions could not conduct maintenance on outdoor units serving administration office and
weighbridge office.

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was
onsite to carry out the above mentioned works.

Customer:

Rod Jones

Print Name

[Handwritten Signature]

Signature

Technician:

Kyle Dempsey

Print Name

[Handwritten Signature]

Signature

Equilibrium Air Conditioning Services Pty Limited
 Unit 7, 38 Brookhollow Ave
 Norwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33535

Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 13/04/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	13/04/2023		Pass

Asset Register - Air-Cooled DX units / Split Systems

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	13/04/2023		Pass
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	13/04/2023		Pass
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	13/04/2023		Pass
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSFSJDURN	0BLAPAJFA00098	Meeting room	13/04/2023		Pass
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	13/04/2023		Pass
3253	Change room RAC	Changeroom	TECO	TWW16CFCCG		Change room	13/04/2023		Pass
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CUE12PKR	6534700845	Weighbridge office	13/04/2023		Pass

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	13/04/2023		Pass
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	13/04/2023		Pass

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33535

Veolia Clyde

Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 13/04/2023

Contact: Bob Manevski
Phone: (02) 9841 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	13/04/2023		Pass

Description Of Work

Attend Site and carry out maintenance for the month of April

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Marcus Jackson (13/04/2023) - Work Note

Attended site to carry out inspection and maintenance of A/C system and extraction fans.

Checked operation and condition of all site office units

Cleaned filters

Flushed drains and checked supply temperatures

All ok.

Checked VSD in plantroom for extraction fans

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33535
Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 13/04/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

All ok.
Checked extraction fan belts
All ok.

Comments / Recommendations

Technician (Print Name): Marcus Jackson Licence No. L174342 Customer (Print Name): Rod Jones
Technician (Signature):  Customer (Signature): 



ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153

CUSTOMER JOB NO. 33535 - 3896 - Marcus Jackson
Preventative Maintenance

Project Name

Monthly Maintenance

Date Created

03/04/2023

PO # 7100410672

Site Details	
Name	Veolia Clyde
Address	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
Contact	Rod Jones
Telephone	0437 167 211
Mobile	rod.jones@veolia.com
Email	

Customer Details	
Name	Veolia Environmental Services P/L
Address	Level 4, 65 Pirrama Road Pyrmont NSW 2009
Contact	Bob Manevski
Telephone	(02) 9841 2802
Mobile	0412 275 133
Email	bob.manevski@veolia.com

Work Requested

Attend Site and carry out maintenance for the month of April

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

cus Jackson (13/04/2023) - Work Note

Attended site to carry out inspection and maintenance of A/C system and extraction fans.
 Checked operation and condition of all site office units
 Cleaned filters
 Flushed drains and checked supply temperatures
 All ok.
 Checked VSD in plantroom for extraction fans
 All ok.
 Checked extraction fan belts
 All ok.

ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153



CUSTOMER JOB NO. 33535 - 3896 - Marcus Jackson
Preventative Maintenance

For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:	Rod Jones	Print Name	Signature
Technician:	Marcus Jackson	Print Name	Signature

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33599

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 02/05/2023
Contact: Bob Manevski
Phone: (02) 984 1 2802

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	02/05/2023		Pass
Notes	Checked condition of cooling fan and coil, checked for faults or damage, cleaned off dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSSSDURN	0BLAPAJFA00098	Meeting room	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	02/05/2023		Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdoor pipework for leaks or damage. All tested okay.								
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	02/05/2023		Pass

Notes	Cleaned filters, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of coil, checked pipework for leaks or damage. All tested okay.							
3285	Weightbridge office wall split AC	Weightbridge office	Panasonic	CUE12PKR	6534700845	Weightbridge office	02/05/2023	Pass
Notes	Cleaned filters, flushed out condensate drain, checked electrical connections and components, tested operations in heating/cooling mode, checked for faults and/or damage to unit, checked condition of outdo checked pipework for leaks or damage. All tested okay.							

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass/
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	02/05/2023		Pass
Notes	Checked condition of belts/pulleys/bearings, greased motor and fan shaft bearings, cleaned off dust and debris from motor. All tested okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	02/05/2023		Pass
Notes	Checked condition of belts/pulleys/bearings, greased motor and fan shaft bearings, cleaned off dust and debris from motor. All tested okay.								

Asset Register - VSD

Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass/
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	02/05/2023		Pass
Notes	Checked condition of cooling fan and coil, checked for faults or damage, cleaned off dust and debris. All tested okay.								

Description Of Work

Attend Site and carry out maintenance for the month of May

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33599

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 02/05/2023
Contact: Bob Manevski
Phone: (02) 984 1 2802

- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (02/05/2023) - Work Note

Arrived on site

Firstly conducted maintenance on 2x extraction fans located above compactor pit.

Isolated power to fans and VSDs

Checked condition of belts, Pulleys and bearings

Greased motor and fan shaft bearings

Cleaned off dust and debris from motor and VSDs.

Turned power back on to fans and velocity alarm. All tested okay.

Conducted maintenance on AC systems located in admin office and weighbridge office.

This includes 6 wall split systems and 2 RACs.

Filters have been cleaned

Condensate drains have been flushed

Checked electrical connections and components

Tested systems in heating and cooling modes

Checked for faults and or damage to units.

Checked condition of outdoor coils

Checked pipework for leaks or damage.

All tested okay.

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33599
Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 02/05/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Comments / Recommendations

Empty box for comments and recommendations.

Technician (Print Name): Dylan Mengel

Technician (Signature):



Licence No. L177835

Customer (Print Name): Joe

Customer (Signature):





ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33599 - 3960 - Dylan Mengel
Preventative Maintenance**

Project Name Monthly Maintenance

Date Created

01/05/2023

PO # 7100410672

Site Details	
Name	Veolia Clyde
Address	Clyde Transfer Terminal 322 Parramatta road Clyde NSW 2142
Contact	Rod Jones
Telephone	0437 167 211
Mobile	
Email	rod.jones@veolia.com

Customer Details	
Name	Veolia Environmental Services P/L
Address	Level 4, 65 Pirrama Road Pymont NSW 2009
Contact	Bob Manevski
Telephone	(02) 9841 2802
Mobile	0412 275 133
Email	bob.manevski@veolia.com

Work Requested

Attend Site and carry out maintenance for the month of May

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Work Note

Arrived on site
 Firstly conducted maintenance on 2x extraction fans located above compactor pit.
 Isolated power to fans and VSDDs
 Checked condition of belts, Pulleys and bearings
 Greased motor and fan shaft bearings
 Cleaned off dust and debris from motor and VSDDs.
 Turned power back on to fans and velocity alarm. All tested okay.
 Conducted maintenance on AC systems located in admin office and weighbridge office.
 This includes 6 wall split systems and 2 RACs.
 Filters have been cleaned
 Condensate drains have been flushed
 Checked electrical connections and components
 Tested systems in heating and cooling modes
 Checked for faults and or damage to units.
 Checked condition of outdoor coils
 Checked pipework for leaks or damage.
 All tested okay.

ABN 51 844 035 531

Telephone: (02) 9439 4822

service@eqac.com.au

PO Box 7996

Norwest NSW 2153

**CUSTOMER JOB NO. 33599 - 3960 - Dylan Mengel
Preventative Maintenance**



For my safety and well-being during COVID-19, I cannot provide my signature, however, I confirm that the technician was onsite to carry out the above mentioned works.

Customer:	Joe	Print Name
		Signature
Technician:	Dylan Mengel	Print Name
		Signature

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	08/06/2023		Pass
Notes	Checked condition of VSDs, and cleaned off dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSCWKN		Administration office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in cooling mode (comms room), checked for faults and/or damage to unit. All tested okay. - For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.								
3251	Meeting room Wall	Meeting room	Samsung	AR12FSDURN	0BLAPAJFA00098	Meeting room	08/06/2023		Pass

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
Notes	AC				V				
Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.									
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.								
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in cooling mode, checked for faults and/or damage to unit. All tested okay.								
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	08/06/2023		Pass
Notes	Filters have been cleaned, condensate drain has been cleared, checked electrical connections and components, checked operations of system in heating mode, checked for faults and/or damage to unit. All tested okay.								
- For outdoor unit, checked electrical connections and components, checked pipework for leaks or damage, checked condition of outdoor coil, cleaned off dust and debris from unit, checked for faults and/or damage to unit. All tested okay.									
Asset Register - Fans									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	08/06/2023		Pass

Notes	Isolated power, had checked condition of belts/pulleys/bearings, had greased fan motor and fan shaft bearings, had cleaned off dust and debris from fan motor and bearings. All tested okay.				
3880	Extraction Fan-2	Roof plant room	HG	Y315S	Waste area
Notes	Isolated power, had checked condition of belts/pulleys/bearings, had greased fan motor and fan shaft bearings, had cleaned off dust and debris from fan motor and bearings. All tested okay.				

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	08/06/2023		Pass
Notes	Checked condition of VSDs, and cleaned off dust and debris. All tested okay.								

Description Of Work

Attend Site and carry out maintenance for the month of June

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (08/06/2023) - Work Note

Firstly conducted maintenance on 2 extraction fans above the compactor pit.

Isolated power

Checked condition of belts/pulleys/bearings

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33701

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 08/06/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Greased fan motor and fan shaft bearings
Cleaned off dust and debris from fan motor and bearings.
Checked condition of VSDs, and cleaned off dust and debris. All tested okay.

Conducted maintenance on AC units serving admin office and weighbridge office.
7 units included.

Filters have been cleaned
Condensate drains have been cleared
Checked electrical connections and components
Checked operations of systems in heating mode
Checked for faults and/or damage to units. All tested okay.

For outdoor units
Checked electrical connections and components
Checked pipework for leaks or damage
Checked condition of outdoor coils
Cleaned off dust and debris from units
Checked for faults and/or damage to units. All tested okay.

Independent Air had conducted Velocity tests on Extraction Fans serving the compactor pit. Awaiting reports.

Comments / Recommendations

**Equilibrium Air Conditioning Services Pty
Limited**
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33701
Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 08/06/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Technician (Print Name):

Kyle Dempsey

Technician (Signature):



Licence No.

L141692

Customer (Print Name):

Rod Jones

Customer (Signature):



Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Serving	Date	Service	Pass / Fail
3881	VSD Extraction Fan-1	Roof plant room	Danfoss	131B8508		Extraction Fan-1	13/07/2023		Pass
Notes	Checked condition of VSD cooling fan, checked condition of coil, checked over parameters, removed dust and debris. All tested okay.								

Asset Register - Air-Cooled DX units / Split Systems									
Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Serving	Date	Service	Pass / Fail
3248	Manager office Wall AC	Manager office	Mitsubishi Electric	MSZ-GE35VAD	0000533	Manager's office	18/07/2023		Pass
Notes	Washed filters Checked outdoor electrical connections Checked indoor operation All tested okay								
3249	Administration office Wall AC	Administration office	Samsung	AR09FSSSCWKN		Administration office	18/07/2023		Pass
Notes	Washed filters Checked operation of outdoor unit Checked electrical connections on indoor & Outdoor units All tested okay								
3250	Comms room Wall AC	Comms room	Mitsubishi Electric	MSZ-AP25VGD	0029477	Comms room	18/07/2023		Pass
Notes	Washed filters Checked outdoor operation Checked electrical connections on indoor& Outdoor All tested okay								
3251	Meeting room Wall AC	Meeting room	Samsung	AR12FSDJURN	0BLAPAJFA00098 V	Meeting room	18/07/2023		Pass
Notes	Washed filters Checked outdoor operations								

	Checked outdoor& indoor electrical connections All tested okay							
3252	Lunch room Wall AC	Lunch room	Mitsubishi Electric	MSZ-GE35VAD	8003334	Lunchroom	18/07/2023	Pass
Notes	Washed filters Checked indoor connections Checked outdoor operations & Electrical connections All tested okay							
3253	Change room RAC	Changeroom	TECO	TWW16CFCG		Change room	18/07/2023	Pass
Notes	Washed filter Cleaned grille Checked operation of unit All tested okay							
3285	Weighbridge office wall split AC	Weighbridge office	Panasonic	CU-E12PKR	6534700845	Weighbridge office	18/07/2023	Pass
Notes	Washed filters Indoor unit requires cleaning impeller dirty also Condenser coil dirty All tested okay							

Asset Register - Fans

Asset ID	Unit ID	Unit Location	Brand	Model Number	Serial Number	Servicing	Date	Service	Pass / Fail
3879	Extraction Fan-1	Roof plant room	HG	Y315S		Waste area	13/07/2023		Pass
Test Readings	Inspect motor terminal boxes for loose connections and overheating. Renew or rectify burnt wiring and tighten connections. Check motor full load amps against nameplate rating and record. Check balance between phases:								
Notes	Found belts to be cracked. Had removed housing, removed cracked belts and loosened off motor. Placed new belts over pulleys and adjusted to correct tension. Re-aligned motor and tighten. Had greased motor and fan shaft bearings, removed and dust and debris from motor. Tested to run. All okay.								
3880	Extraction Fan-2	Roof plant room	HG	Y315S		Waste area	13/07/2023		Pass
Test Readings	Inspect motor terminal boxes for loose connections and overheating. Renew or rectify burnt wiring and tighten connections. Check motor full load amps against nameplate rating and record. Check balance between phases:								

Equilibrium Air Conditioning Services Pty Limited
 Unit 7, 38 Brookhollow Ave
 Norwest, NSW 2153
 Ph: 02 94394822 Fax:
 ABN 51 844 035 531

Asset Record - Job No. 33800
Veolia Clyde
 Clyde Transfer Terminal
 322 Parramatta road
 Clyde NSW 2142

Inspection Date: 18/07/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Notes had checked condition of belts/pulleys/bearings, greased fan motor and fan shaft bearings, removed dust and debris from fan motor and housing. Tested to run. All okay.

Asset Register - VSD									
Asset ID	Unit ID	Unit Location	Brand	Model No	Serial No	Servicing	Date	Service	Pass / Fail
3882	VSD Extraction Fan-2	Roof plant room	Danfoss	131B8508		Extraction Fan-2	13/07/2023		Pass
Notes	Checked condition of VSD cooling fan, checked condition of coil, checked over parameters, removed dust and debris. All tested okay.								

Description Of Work

Attend Site and carry out maintenance for the month of July

Programmed maintenance service for the HVAC (Heating, Ventilation and Air-conditioning) system onsite.

- Extraction Fans x 02
- Variable Speed Drives x 02
- AC Units Serving Admin Office x 08 (3 ducted and 5 splits)
- Air balancing / Air flow testing 2 times per year
- Cleaning of Fans and Plenum 2 times per year

Kyle Dempsey (13/07/2023) - Work Note

Conducted maintenance on 2x extraction fans and VSDs located above compactor pit.

Isolated power and alarm.

Checked condition of belts/pulleys/bearings

Greased fan motor and fan shaft bearings

Removed dust and debris from motor and housing.

Equilibrium Air Conditioning Services Pty Limited

Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33800

Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 18/07/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Tested fans to run. All okay.

Belts on extraction fan 1 were cracked
Removed housing and loosened off motor to remove old belts and changeover with new.
Once placed onto pulleys, adjusted belts to correct tension by re-aligning the fan motor.
Once correct, tighten up fan motor and placed housing back over pulleys.
Tested to run.

Checked condition of VSD cooling fans
Checked condition of coils
Checked over parameters.
Also removed dust and debris from VSDs. All tested okay.

Maintenance to be completed on remaining assets on 18th July (AC units).

Steve Hortis (18/07/2023) - Technician Note

Upon arrival washed filters wiped down grilles
Checked indoor and out electrical connections
Checked Remote controllers
All tested okay

Note

Weighbridge indoor unit requires cleaning indoor coil & Impeller very dirty
Also condenser coil requires cleaning - Quote sent to Rod

Equilibrium Air Conditioning Services Pty Limited
Unit 7, 38 Brookhollow Ave
Norwest, NSW 2153
Ph: 02 94394822 Fax:
ABN 51 844 035 531

Asset Record - Job No. 33800
Veolia Clyde
Clyde Transfer Terminal
322 Parramatta road
Clyde NSW 2142

Inspection Date: 18/07/2023
Contact: Bob Manevski
Phone: (02) 9841 2802

Comments / Recommendations

--

Technician (Print Name):

Steve Hortis



Technician (Signature):

Licence No.

L026231

Customer (Print Name):

Rod Jones



Customer (Signature):



APPENDIX B:

WEATHER DATA CALIBRATION REPORTS
(JANUARY 2023, APRIL 2023 & JULY 2023)

6/1/2023

Anea Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 14/10/22 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field

were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 6/1/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	16.8	16.8
2m*	16.8	16.9
Relative Humidity*	84.9	85.7
Wind Speed	1.7 m/s at ground	2.4 m/s at 10 metres
Wind Direction	220	220
Solar Radiation	55	57
TBRG	10mm	20 tips
Battery/Solar	13.4	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0730 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 6/1/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	16.0	16.1
2m*	16.0	15.9
Relative Humidity*	88.0	87.1
Wind Speed	2.0 m/s at ground (poor exposure at ground)	2.4 m/s at 10 metres.

Wind Direction	250	250
Solar Radiation	150	151
TBRG	10mm	20 tips
Battery/Solar	12.6	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0945 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 32655577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

4/4/2023

Anea Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 4/4/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	19.2	18.7
2m*	19.2	19.4
Relative Humidity*	84.7	85.1
Wind Speed	1.3 m/s at ground	2.1 m/s at 10 metres
Wind Direction	210	210
Solar Radiation	500	510
TBRG	10mm	20 tips
Battery/Solar	14.2	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0830 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 4/4/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	22.4	21.6
2m*	22.4	21.2
Relative Humidity*	67.1	66.9
Wind Speed	1.9 m/s at ground (poor exposure at ground)	2.4 m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	600	601
TBRG	10mm	20 tips
Battery/Solar	13.4	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0940 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 32655577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au

17/7/2023

Anae Ressos
 Veolia Environmental Services (Australia) Pty Ltd

Re – Quarterly service of weather stations

Dear Anae,

As per our service agreement, on the 17/7/23 HS undertook the service, calibration and maintenance of the weather stations located at the Horsley Park and Clyde sites. Field readings were obtained by a combination of a Kestral 3500, compass, Monitor Solar Radiation field unit and HS TBRG calibration device. Details are as follows:

[Horsley Park 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	12.0	11.3
2m*	12.0	11.1
Relative Humidity*	87.2	88.0
Wind Speed	0 m/s at ground	0 m/s at 10 metres
Wind Direction	270	270
Solar Radiation	100	97
TBRG	10mm	20 tips
Battery/Solar	14.2	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 0810 EST as these were testing.

Additional Items

1. Solar panel and components cleaned. All components were very dirty.
2. Installation sprayed for insects.
3. Guy wires checked.

[Clyde 17/7/23](#)

Sensor	Actual (field)	Logger
Temperature – 10m*	17.8	18.0
2m*	17.8	16.0
Relative Humidity*	75.5	75.6
Wind Speed	0.8m/s at ground (poor exposure at ground)	1.7m/s at 10 metres.

Wind Direction	270	270
Solar Radiation	300	305
TBRG	10mm	20 tips
Battery/Solar	13.4	

* Note 1: Field reading is not inside the radiation shield.

Note 2: Ignore rainfall tips logged at approximately 1020 EST as these were testing.

Additional Items

1. All components cleaned.
2. Installation sprayed for insects.

Both sites are now polled weekly by HS and data is downloaded and available on the HS website.

Should you require any further information on this report please do not hesitate to contact me on 0420316459.

Phil Evison.

Hydrometric Services Pty Ltd
ABN 32655577567
Mob 0420316459
Email phil@hydrometric.com.au
www.hydrometric.com.au



APPENDIX C:

FIELD AMBIENT ODOUR ASSESSMENT PLOT AND FIELD SHEET

(5 JULY 2023)

THE ODOUR UNIT PTY LTD



Level 3, 12/56 Church Avenue
MASCOT NSW 2020

Phone: +61 2 9209 4420
Facsimile: +61 2 9209 4421
Email: info@odourunit.com.au
Internet: www.odourunit.com.au
ABN: 53 091 165 061

Field Ambient Odour Assessment Log Sheet

Date: 05 July 2023

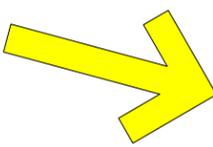
Assessor: J. Schulz

Weather Conditions: Light to moderate wind speeds blowing from the northwest. No rainfall observed.

Survey Reference Plot No: N1473L-XXXX

GRIF REF. POSITION	MEASUREMENT TIME PERIOD (hrs)	WIND DIRECTION	WIND SPEED (m/s)	ODOUR PRESENT (Y/N)	ODOUR CHARACTER	VDI 3940 INTENSITY SCALE 0-6	COMMENTS
1	13:15 – 13:20hrs	WNW	1 - 2 m/s	N	--	0	--
2	13:25 – 13:30hrs	WNW	1 – 2 m/s	N	--	0	--
3	13:33 – 13:38hrs	WNW	1 m/s	N	--	0	--
4	13:41 – 13:46hrs	WNW	1 – 2 m/s	N	--	0	--
5	13:49 – 13:54hrs	WNW	1 – 2 m/s	N	--	0	--
6	13:59 – 14:04hrs	WNW	1 – 3 m/s	N	--	0	--
7	14:11 – 14:16hrs	WNW	1 – 3 m/s	N	--	0	--



DESCRIPTION Field Ambient Odour Assessment Survey Modified German Standard VDI 3940		LEGEND German Intensity Scale VDI3882 ○ 0 Not detectable ● 1 Very weak ● 2 Weak ● 3 Distinct ● 4 Strong ● 5 Very strong ● 6 Extremely strong		 Veolia (Australia) Pty Ltd Clyde Transfer Terminal, Clyde, NSW Field Ambient Odour Assessment Survey Survey Date: 05 July 2023 Survey Time Period: 1315 hrs to 1416 hrs	
	THE ODOUR UNIT PTY LTD Level 3, 12/56 Church Avenue MASCOT, NSW 2020 Phone: (02) 9209 4420 www.odourunit.com.au	DRAWN BY I. FARRUGIA	Odour Audit XXXX Field Ambient Odour Assessment Survey	Plot No. N1473-XXXXI	
		CHECKED J. SCHULZ		Job No. N1473L	
		APPROVED J. SCHULZ			
		Local wind direction 		Local wind conditions Light to moderate wind speeds, with winds blowing from the west-north-west. No rainfall observed. Refer to FAOA Logsheet N1473L-XXXXI for details on recorded odour detections	

Appendix C3 - Noise Monitoring Data

Annual Truck Noise Measurements

*Clyde Transfer Terminal
September 2023*



Annual Truck Noise Measurements

Quality Information

Completed by:	 Anae Ressos <i>Environmental Coordinator - NSW Environment</i>
Authorised by:	 Rod Jones <i>Clyde/Greenacre Facility Manager</i>

Address Veolia Australia & New Zealand
Corner Unwin and Shirley Streets, Rosehill, NSW, 2142

Date September 2023

Reference: CTT_TRUCK_0923

Status: **FINAL (V1)**

Rev No.	Details	Issued to	Date
0	Draft	Veolia (internal QA)	February 2024
1	Final	Veolia (internal QA)	March 2024

This page intentionally left blank

Contents

Quality Information	3
Contents	5
List of Figures	5
List of Tables	5
Introduction	5
Noise Limit Criteria	6
Table 1: LAmax Noise Limits (dBA) – ADR 28/01	6
Measurement Methodology	7
Noise Measurement Results	8
Discussion	9
Table 2: Highest NC Hightclass vehicle noise measurements	9
Table 3: NB class vehicle noise measurements	10
Conclusions	12
References	12
Appendices	12
Appendix A - Truck Noise Monitoring Location	12
Appendix B - Sound Level Meter Calibration Certificate	12
Appendix C - Weighbridge Record	13
Appendix D - Truck Noise Measurement Results	13

List of Figures

Figure 1: Noise level distribution from Truck Noise Monitoring –

7 September 2023

9

List of Tables

Table 1: LAmax Noise Limits (dBA) – ADR 28/01	7
Table 2: Highest NC Hightclass vehicle noise measurements	10
Table 3: NB class vehicle noise measurements	11

Introduction

The Clyde Transfer Terminal was issued with Conditions of Development Consent (Conditions) by the Department of Planning, Industry and Environment (DPIE) formerly known as the Department of Planning, which are attached to the Development Consent. The Conditions include a requirement to assess heavy vehicle noise limits specified in Australian Design Rule 28/01 (ADR 28/01).

The requirements of Condition 112 are as follows:

The Applicant shall implement a Heavy Vehicle Noise Monitoring Management Program for the development to the satisfaction of the Director-General. This program must:

- (a) monitor heavy vehicle noise on site, in accordance with the methods outlined in the “Truck Noise Monitoring – Proposed Test and Management Plan” prepared by Heggies and dated 26 May 2008;
- (b) be undertaken quarterly for a year starting in October 2008, and annually thereafter, unless otherwise agreed by the Director-General;
- (c) measure at least 25% of the heavy vehicles visiting the site;
- (d) identify heavy vehicles exceeding the relevant noise criteria specified in the Australian Design Rule 28/01, or its successor, and ensure that the owners of these subsequently comply with the relevant noise criteria;
- (e) report the number of non-compliant heavy vehicles identified and the actions undertaken to address these non-compliances in the Annual Environmental Monitoring Report; and
- (f) be amended, should the monitoring activities not achieve the aim of the program to the satisfaction of the Director-General.

This Annual Truck Noise Measurements report (the Report) presents the results of the eighteenth round of heavy vehicle noise monitoring at the Terminal. Monitoring was completed by Veolia on the 7th of October 2023 between 8:01 AM and 11:57 AM, in accordance with the Proposed Test Management Plan (PTMP) developed by Heggies. This is the fourteenth sampling event and report prepared by Veolia under Condition 112 since resuming the responsibility of monitoring from Heggies.

Noise Limit Criteria

The noise limit criteria for maximum allowable noise levels for Goods Vehicles described in the PTMP (2008) are provided in Table 1 below.

Table 1: LMax Noise Limits (dBA) – ADR 28/01

Vehicle Category Code	Vehicle Type	Vehicles In Motion	Stationary Vehicles				
			Direct Injection & Spark Ignition Diesel Engines	Spark Ignition Engines Exhaust Outlet Height		Direct Injection Engines Exhaust Outlet Height	
				<1500mm	≤1500mm	<1500mm	≤1500mm
NA	Light Goods Vehicles GVM ≤3.5t on road use	78 to 80	89	85	99	95	
NB	Medium Goods Vehicles GVM >3.5t ≤12t on road use	81 to 84	95	91	101	97	
NC	Heavy Goods Vehicles GVM >12t on road use	81 to 87	95	91	103	99	

Note: For vehicles in motion test, LMax noise limits are based on the Gross Vehicle Mass (GVM) and the Nett Engine Power (NEP). The noise limits in the table are expressed as a range where the lower noise level refers to the minimum GVM and NEP in each category and the upper noise level refers to the maximum GVM and NEP in each category.

Waste collection trucks entering the Terminal are loaded vehicles with a Gross Vehicle Mass (GVM) over 12 tonnes, based on tare weights of incoming vehicles on the site weighbridge. Hence, for the purpose of conducting a vehicle noise assessment at the Terminal, Vehicle Category Code “NC”, for heavy goods vehicles with a GVM of 12 tonnes or more on the road, a Net Engine Power (NEP) of greater than 150 kilowatts (kW) has been applied. The upper limit (87dBA) of the NC range provided in Table 1 will be used to assess truck noise measurements. This is consistent with the assessment criteria applied by Heggies in previous monitoring rounds.

Measurement Methodology

The monitoring location from which the truck noise was measured was consistent with previous monitoring rounds conducted by Veolia and Heggies. Measurements were taken at a distance of approximately 7.5 metres from the centre of the vehicle travel path and a height of 1.2 metres above the vehicle entrance ramp from the weighbridge to the Terminal building, which was the test site surface. Trucks accelerating at this location, which is shown in **Appendix A**, were measured where the vehicle was accelerating in line with the microphone of the sound level meter. For further information regarding measurement location and methodology refer to the PTMP prepared by Heggies (Heggies, 2008).

Measurements were taken with a Casella Sound Level Meter, using an A-weighted (LA) filter network and fast response time constant as required under ADR 28/01. The (LA) filter ensured that the sound level meter was less sensitive to very high and very low frequencies which would be outside the range of noise emitted by the heavy vehicles entering and exiting the Terminal, while the fast response time constant enabled a more accurate reading of noise from each vehicle movement. Calibration of the Sound Level Meter was completed by Thermo Fisher Scientific prior to monitoring. Refer to **Appendix B** for calibration certificate.

For each truck movement a LA maximum noise level measurement was recorded. Additional information on each truck movement was noted (where possible) to assist in identification of trucks exceeding noise criteria, including:

- Company;
- Vehicle Make and Type;
- Registration; and
- Exhaust Location.

The collected data was cross referenced with the Terminal's weighbridge records for vehicles entering the facility on 7 September 2023, a copy of which is provided in **Appendix C**, to identify trucks measured during this sampling period and to calculate the percentage of trucks sampled.

Noise Measurement Results

A total of 108 truck movements were recorded entering the Terminal and a measurement for each vehicle movement past the monitoring location was taken as the trucks accelerated on the entrance ramp.

Twenty Five (25) of these measurements were under impeded traffic conditions causing distorted noise emissions, caused by queuing of waste trucks waiting to enter the Terminal building during busy periods or idling of engines past the testing zone. Impeded traffic conditions affected the representative quality of the noise measurements. The measured sound levels of each pass-by event were recorded on field sheets, which have been tabulated in **Appendix D**.

A total measurement of 41.3% of all truck movements (261) was achieved during this monitoring round, which satisfies the minimum requirements of Condition 112 (25% of daily truck movements). **Figure 1** presents the distribution of recorded sound level frequencies which were measured in A-weighted decibels (dBA).

Measurements of 'normal' truck acceleration ranged from 65.8dBA to 86.9dBA with the highest frequency occurring between 77 - 79dBA. Impaired acceleration readings due to the impeded traffic conditions ranged from 60dBA to 87dBA, with the highest frequency occurring between 73-75dBA. Impaired acceleration readings were plotted separately from the normal accelerating vehicles on Figure 1.

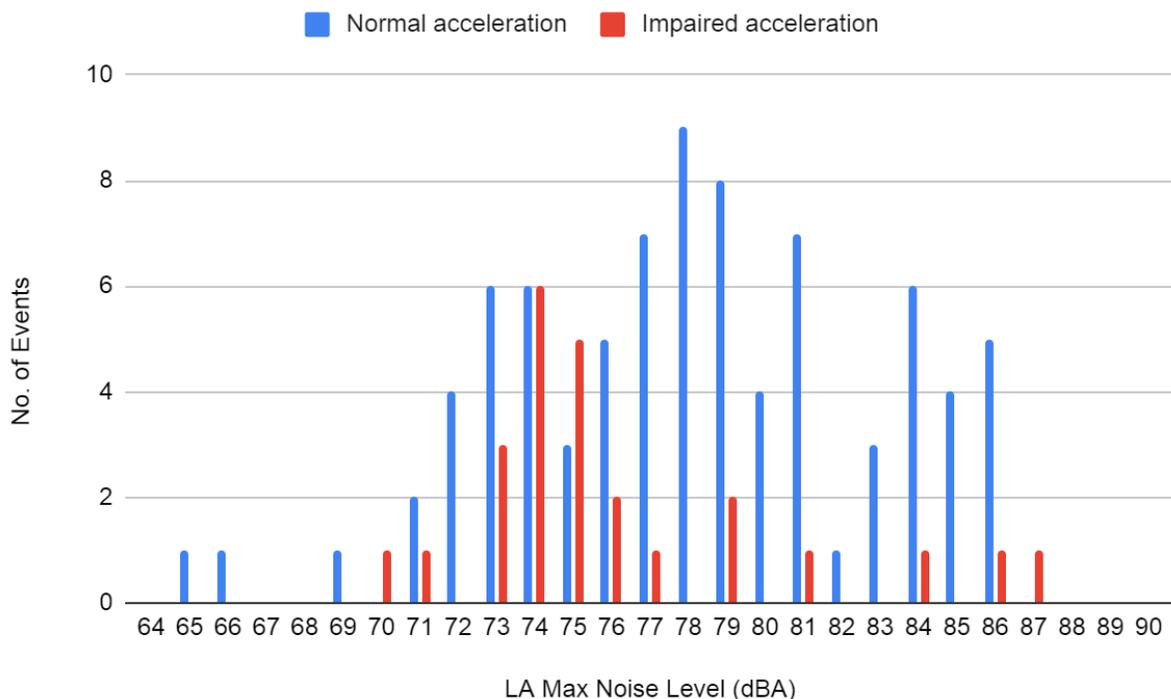


Figure 1: Noise level distribution from Truck Noise Monitoring – 7th of September 2023

Discussion

Comparison of the heavy vehicle noise measurement results against the limits specified in ADR 28/01 (refer to Table 1) indicates that 107 trucks entering the Terminal in this monitoring round were within the acceptable noise criteria for the NC category vehicles. One (1) truck reached this threshold but did not exceed it. The vehicle is listed in **Table 2**.

Table 2: Highest NC Hightclass vehicle noise measurements

Time	Company	Make	Registration	L _A Max (dBA)	Impeded Movement	Comments
09:34	Enfield FrontLift	Unknown	XN62FN	87	Y	Impeded movement

Thirteen (13) smaller waste vehicles (ranging from approximately 6 – 11 tonnes when loaded) were observed entering the facility during this monitoring event. For the purpose of this assessment it is considered that these vehicles would fall within the NB category with a noise limit of 84dBA. All noise emitted from vehicles assigned to this category was measured below this threshold as indicated in **Table 3**.

Table 3: NB class vehicle noise measurements

Time	Company	Make	Registration	L _A Max (dBA)	Impeded Movement
8:10	SUEZ Recycling & Recovery-Sydney	Unknown	XO84FH	73.1	N

8:15	Cumberland Council - Auburn	Unknown	CK41CQ	84.9	N
8:19	Leichhardt Municipal Council	Unknown	CL41XK	76.5	N
8:28	Lane Cove Council	ISUZU	XO07PF	73.7	N
8:41	Leichhardt Municipal Council	Unknown	CI23DH	74.2	N
9:15	Enfield RearLift	ISUZU	CL43KU	72.2	N
9:32	Ku-ring-gai Council	Unknown	CN75MI	79.9	N
9:42	Ku-ring-gai Council	Unknown	XO44SM	73.5	Y
9:51	Ku-ring-gai Council	Unknown	CN84MI	70.3	Y
10:13	Sydney Waste Pty Ltd	Unknown	XO86IW	71.9	N
10:25	Hornsby Council	Unknown	XO26AN	79.6	N
10:32	City of Canada Bay Council - TS&O	HINO	XN49HD	71.5	Y

11:09	Capital City Waste Services Pty Ltd	Unknown	XO49FF	69.5	N
-------	-------------------------------------	---------	--------	------	---

Noise from the Terminal's operations such as plant noise (forklift, compactor, front end loader and road sweeper) and surrounding areas (Parramatta Road, train tracks) were not significant enough to influence waste truck noise measurements at this location. The noise wall located adjacent to the exit ramp, on the North-western boundary of the Terminal, also assisted in focusing noise measurements on truck movements into the facility by limiting interference noise sources.

No noise complaints pertaining to the Terminal's operations were received between the annual truck noise monitoring rounds. This indicates that noise impacts from waste truck movements at the Terminal boundary are within the Terminal and surrounding area background noise levels.

Conclusions

Truck noise monitoring was conducted on the 7th of September 2023 between 8:01 AM and 11:57 AM. The results indicated:

- Noise from 108 truck movements was measured;
- A total of 41.3% of truck movements were measured, which satisfies the minimum 25% requirement of Condition 112;
- All measured trucks were identified against weighbridge records to verify the accuracy of field data for reporting.
- A maximum noise measurement of 87.0dBA was identified, reaching but not exceeding the 87dBA limit of ADR 28/01. All other truck noise measurements were well below the noise criteria of ADR 28/01 and hence did not exceed the trigger limits.
- Noise from the Terminal's operations was not significant enough to influence the truck noise assessment.
- No noise complaints pertaining to the Terminal's operations were received since the previous truck noise monitoring round.
- Overall, truck noise impacts at the Terminal boundary are considered to be within background levels.

References

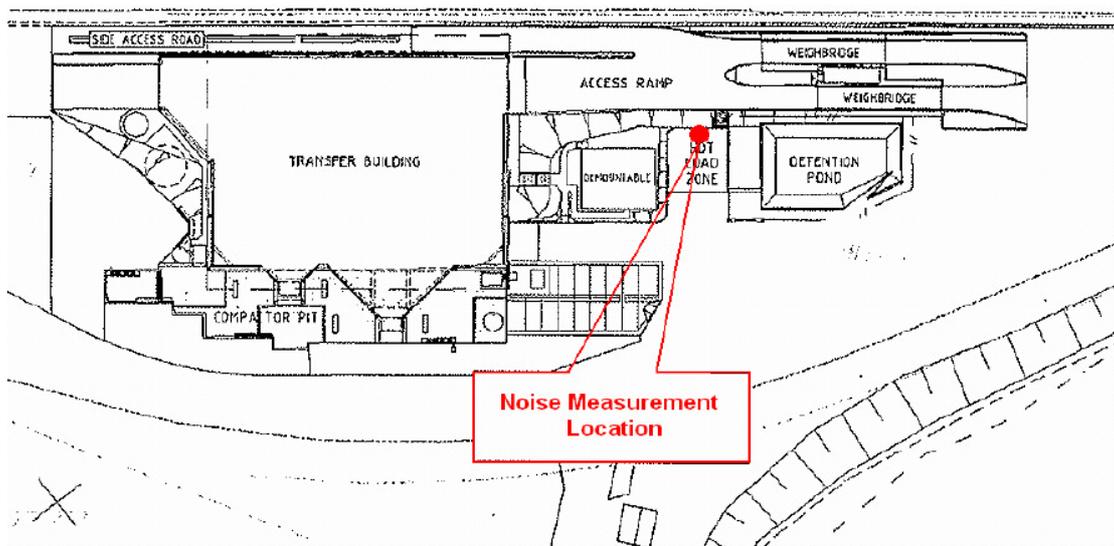
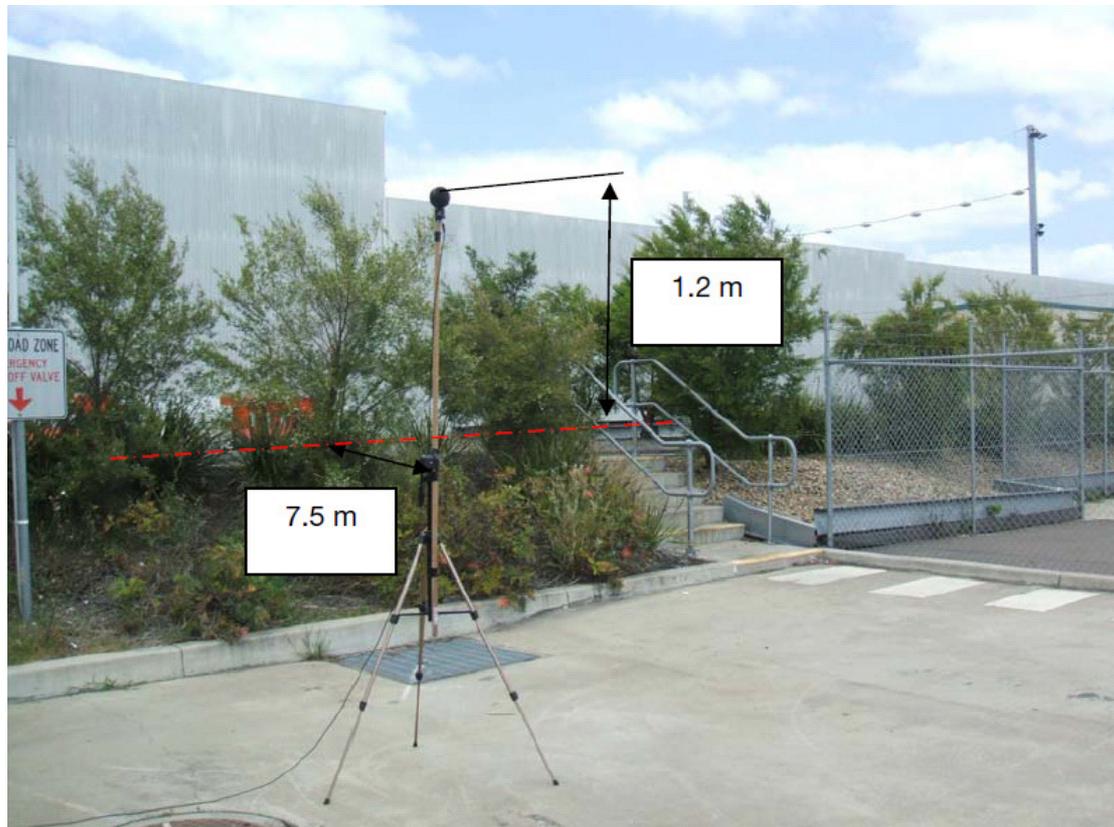
- ADR 28/01 Vehicle Standard Australian Design Rule 28/01 – External Noise of Motor Vehicles), 2006. Federal Register of Legislative Instruments F2006L01279. Australian Government.
- PTMP (2008) Clyde Waste Transfer Facility – Truck Noise Monitoring Proposed Test and Management Plan, 2008. Heggies Pty Ltd.

Appendices

Appendix A - Truck Noise Monitoring Location



Truck Noise Monitoring Location



Appendix B - Sound Level Meter Calibration Certificate

Certificate of Conformity and Calibration

Instrument Model:- CEL-633B
Serial Number 2425321
Firmware revision V006-05

Microphone Type:- CEL-252
Serial Number 101461

Preamplifier Type:- CEL-495
Serial Number 005585

Instrument Class/Type:- 2



Applicable standards:-

IEC 61672: 2002 / EN 60651 (Electroacoustics - Sound Level Meters)
 IEC 60651 1979 (Sound Level Meters), ANSI S1.4: 1983 (Specifications For Sound Level Meters)

Note:- The test sequences performed in this report are in accordance with the current Sound level meter Standard - IEC61672. The combination of tests performed are considered to confirm the products electro-acoustic performance to all applicable standards including superceded Sound Level Meter Standards - IEC60651 and IEC60804.

Test Conditions:- 27 °C
 71 %RH
 1004 mBar

Test Engineer:- Nicola Cartwright
Date of Issue:- January 24, 2023

Declaration of conformity:-

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2008 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

Test Summary:-

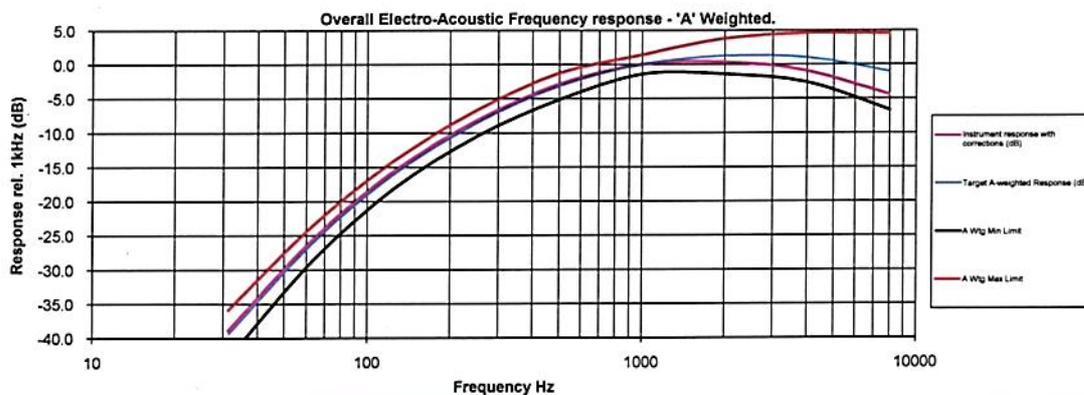
- Self Generated Noise Test
- Electrical Signal Test Of Frequency Weightings
- Frequency & Time Weightings At 1 kHz
- Level Linearity On The Reference Level Range
- Toneburst Response Test
- C-peak Sound Levels
- Overload Indication
- Acoustic Tests

- All Tests Pass

Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.



Casella UK
 Regent House, Woseley Road,
 Kempston, Bedford
 MK42 7JY
 United Kingdom
 Tel: +44 (0) 1234 844100
 Fax: +44(0) 1234 841490
 E-mail: info@casellasolutions.com

Casella USA
 415 Lawrence Bell Drive, Unit 4
 Buffalo, NY 14221, USA
 Toll Free (800) 366-2966
 Tel: +1 (716) 276 3040
 E-mail: info@casellausa.com

Casella India
 Ideal Industries India Pvt.Ltd.
 229-230, Spazedge, Tower -B Sohna Road,
 Sector-47, Gurgaon-122001, Haryana , India.
 Tel: +91 124 4495100
 E-mail: casella.sales@ideal-industries.in

Casella China
 Ideal Industries China
 Room 305, Building 1, No.1279, Chuanqiao
 Rd, Pudong New District,
 Shanghai, China
 Tel: +86-21-31263188
 Fax: +86-21-61605906
 Email: info@casellasolutions.cn

Casella Australia
 Ideal Industries (Aust) PTY LTD
 Unit 17, 35 Dunlop Rd, Mulgrave.
 Vic. 3170, Australia.
 Email: australia@casellasolutions.com

Appendix C - Weighbridge Record

Facility	Trans Date	Time In	Rego No	Customer Name
Clyde	7/9/2023	0:27	XO18EZ	Enfield FrontLift
Clyde	7/9/2023	1:13	XO12KG	Enfield FrontLift
Clyde	7/9/2023	1:32	CN93MI	Ku-ring-gai Council
Clyde	7/9/2023	1:39	CL43JW	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	1:43	CN73MI	Ku-ring-gai Council
Clyde	7/9/2023	2:15	CN75MI	Ku-ring-gai Council
Clyde	7/9/2023	2:18	XO21NI	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	2:59	XO05IR	Quality Wire Pty Ltd
Clyde	7/9/2023	3:06	XO61KG	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	3:12	XO23NI	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	3:28	XO28NI	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	3:31	XO29NI	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	3:38	XN50RK	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	4:00	XO21NI	Suez Recycling & Recovery-Wetherill
Clyde	7/9/2023	4:02	CN84MI	Ku-ring-gai Council
Clyde	7/9/2023	4:03	CN75MI	Ku-ring-gai Council
Clyde	7/9/2023	4:11	XO28ID	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	4:13	URM823	Cumberland Council - Auburn
Clyde	7/9/2023	4:14	XO13IQ	CBD Waste & Recycling Pty Ltd
Clyde	7/9/2023	4:19	XO22PE	Enfield FrontLift
Clyde	7/9/2023	4:28	3URM	URM Environmental Services Pty Limi
Clyde	7/9/2023	4:32	URM826	Cumberland Council - Auburn
Clyde	7/9/2023	4:32	CK27AL	Ashfield Council
Clyde	7/9/2023	4:33	CK29AL	Ashfield Council
Clyde	7/9/2023	4:38	XO62MC	Wastefree (Aust) Pty Ltd
Clyde	7/9/2023	4:48	XO89TQ	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	4:52	XO76FH	Capital City Waste Services Pty Ltd
Clyde	7/9/2023	5:04	XN26NX	Enfield FrontLift
Clyde	7/9/2023	5:13	CJ77ZS	Capital City Waste Services Pty Ltd
Clyde	7/9/2023	5:26	XN75LQ	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	5:39	CP03AT	Canterbury-Bankstown Council
Clyde	7/9/2023	5:39	CP02AT	Canterbury-Bankstown Council
Clyde	7/9/2023	5:46	XO05IR	Quality Wire Pty Ltd
Clyde	7/9/2023	5:48	XN44IM	Canterbury-Bankstown Council
Clyde	7/9/2023	5:52	URM678	Cumberland Council - Auburn
Clyde	7/9/2023	5:52	XO18EZ	Enfield FrontLift
Clyde	7/9/2023	5:55	XN05XO	Canterbury-Bankstown Council
Clyde	7/9/2023	5:57	XO89TQ	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	6:00	CO41MK	Leichhardt Municipal Council
Clyde	7/9/2023	6:07	XO49FF	Capital City Waste Services Pty Ltd
Clyde	7/9/2023	6:08	DPP003	Direct Packaging & Pallets Pty Ltd
Clyde	7/9/2023	6:12	XO23MP	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	6:13	CN62TG	Wanless Waste Management Pty Ltd
Clyde	7/9/2023	6:16	XN18XO	Canterbury-Bankstown Council
Clyde	7/9/2023	6:20	XN39HQ	Canterbury-Bankstown Council

Clyde	7/9/2023	6:21	XN44ML	Canterbury-Bankstown Council
Clyde	7/9/2023	6:21	XO36GK	Wastefree (Aust) Pty Ltd
Clyde	7/9/2023	6:23	XN10XO	Canterbury-Bankstown Council
Clyde	7/9/2023	6:25	XO29NQ	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	6:26	XO07PF	Lane Cove Council
Clyde	7/9/2023	6:33	XO82MP	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	6:44	XN73YM	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	6:45	URM803	Cumberland Council - Auburn
Clyde	7/9/2023	6:45	CN92DF	Parramatta City Council Depot V101
Clyde	7/9/2023	6:45	XO55IN	Leichhardt Municipal Council
Clyde	7/9/2023	6:52	URM818	Cumberland Council - Auburn
Clyde	7/9/2023	6:53	XN72BC	Canterbury-Bankstown Council
Clyde	7/9/2023	6:57	URM811	Cumberland Council - Auburn
Clyde	7/9/2023	7:02	XO05IR	Quality Wire Pty Ltd
Clyde	7/9/2023	7:10	XO07JR	Leichhardt Municipal Council
Clyde	7/9/2023	7:10	URM841	Cumberland Council - Auburn
Clyde	7/9/2023	7:10	XO69MZ	Hunter's Hill Council
Clyde	7/9/2023	7:11	XN25IA	Cumberland Council - Auburn
Clyde	7/9/2023	7:15	URM898	Cumberland Council - Auburn
Clyde	7/9/2023	7:18	BQ60WN	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	7:20	URM813	Cumberland Council - Auburn
Clyde	7/9/2023	7:20	URM839	Cumberland Council - Auburn
Clyde	7/9/2023	7:25	XO68OL	City of Ryde
Clyde	7/9/2023	7:32	XO26AN	Hornsby Council
Clyde	7/9/2023	7:32	XN27FG	Parramatta City Council Depot V101
Clyde	7/9/2023	7:33	URM814	Cumberland Council - Auburn
Clyde	7/9/2023	7:43	CL78JV	Enfield RearLift
Clyde	7/9/2023	7:48	BL54KN	Leichhardt Municipal Council
Clyde	7/9/2023	7:48	XO05EZ	Wanless Waste Management Pty Ltd
Clyde	7/9/2023	7:49	URM849	Cumberland Council - Auburn
Clyde	7/9/2023	7:53	XN26YU	City of Ryde
Clyde	7/9/2023	7:57	XO75SC	Cumberland Council - Auburn
Clyde	7/9/2023	8:01	XQ82GB	Burwood Council
Clyde	7/9/2023	8:03	XO76MZ	Lane Cove Council
Clyde	7/9/2023	8:06	XO86GD	City of Ryde
Clyde	7/9/2023	8:06	XO72MZ	Hunter's Hill Council
Clyde	7/9/2023	8:10	XO84FH	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	8:12	XO18EZ	Enfield FrontLift
Clyde	7/9/2023	8:13	CO41MK	Leichhardt Municipal Council
Clyde	7/9/2023	8:13	URM844	Cumberland Council - Auburn
Clyde	7/9/2023	8:15	CK41CQ	Cumberland Council - Auburn
Clyde	7/9/2023	8:15	URM817	Cumberland Council - Auburn
Clyde	7/9/2023	8:16	XQ81GB	Burwood Council
Clyde	7/9/2023	8:18	URM842	Cumberland Council - Auburn
Clyde	7/9/2023	8:19	CL41XK	Leichhardt Municipal Council
Clyde	7/9/2023	8:22	XN04ZL	City of Ryde

Clyde	7/9/2023	8:27	XN54WO	Canterbury-Bankstown Council
Clyde	7/9/2023	8:28	XO07PF	Lane Cove Council
Clyde	7/9/2023	8:31	XQ83GB	Burwood Council
Clyde	7/9/2023	8:32	XN70ZM	City of Ryde
Clyde	7/9/2023	8:34	XO92AH	City of Ryde
Clyde	7/9/2023	8:34	XN37IM	Strathfield Municipal Council
Clyde	7/9/2023	8:35	XO77MZ	Lane Cove Council
Clyde	7/9/2023	8:39	XO73MZ	Lane Cove Council
Clyde	7/9/2023	8:41	CI23DH	Leichhardt Municipal Council
Clyde	7/9/2023	8:41	XN87UY	Leichhardt Municipal Council
Clyde	7/9/2023	8:43	XO68MZ	Lane Cove Council
Clyde	7/9/2023	8:44	XO38BZ	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	8:47	XO28ID	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	8:51	CK27AL	Ashfield Council
Clyde	7/9/2023	8:51	XN51RK	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	8:52	CP19KQ	Ku-ring-gai Council
Clyde	7/9/2023	8:54	XO05IC	City of Canada Bay Council - Domestic
Clyde	7/9/2023	9:01	CK29AL	Ashfield Council
Clyde	7/9/2023	9:07	XN72BC	Canterbury-Bankstown Council
Clyde	7/9/2023	9:07	XN44VY	Canterbury-Bankstown Council
Clyde	7/9/2023	9:12	XO90JE	City of Canada Bay Council - Domestic
Clyde	7/9/2023	9:13	CP02AT	Canterbury-Bankstown Council
Clyde	7/9/2023	9:14	XO41KY	City of Canada Bay Council - Domestic
Clyde	7/9/2023	9:15	CL43KU	Enfield RearLift
Clyde	7/9/2023	9:16	XN05XO	Canterbury-Bankstown Council
Clyde	7/9/2023	9:17	XO11AB	Hornsby Council
Clyde	7/9/2023	9:23	XN62YA	Canterbury-Bankstown Council
Clyde	7/9/2023	9:25	XO44CU	Enfield RearLift
Clyde	7/9/2023	9:26	XO10AG	Hornsby Council
Clyde	7/9/2023	9:26	XO12AB	Hornsby Council
Clyde	7/9/2023	9:27	XN50ZK	Hornsby Council
Clyde	7/9/2023	9:27	XO52KY	City of Canada Bay Council - Domestic
Clyde	7/9/2023	9:31	CJ18SV	Canterbury-Bankstown Council
Clyde	7/9/2023	9:32	CN75MI	Ku-ring-gai Council
Clyde	7/9/2023	9:32	XO55IN	Leichhardt Municipal Council
Clyde	7/9/2023	9:32	XO29NQ	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	9:33	XO79RB	Cumberland Council - Auburn
Clyde	7/9/2023	9:34	XN62FN	Enfield FrontLift
Clyde	7/9/2023	9:35	XN29EW	Paper Resource Pty Ltd
Clyde	7/9/2023	9:35	XN18XO	Canterbury-Bankstown Council
Clyde	7/9/2023	9:36	XN78ZF	Hornsby Council
Clyde	7/9/2023	9:37	XN55BI	Canterbury-Bankstown Council
Clyde	7/9/2023	9:38	XN44ML	Canterbury-Bankstown Council
Clyde	7/9/2023	9:40	XN78LI	Fairfield City Council-waste
Clyde	7/9/2023	9:41	XN51ZK	Hornsby Council
Clyde	7/9/2023	9:42	XO44SM	Ku-ring-gai Council

Clyde	7/9/2023	9:45	XO07IT	Ku-ring-gai Council
Clyde	7/9/2023	9:49	XN89XQ	Strathfield Municipal Council
Clyde	7/9/2023	9:50	XO11IT	Ku-ring-gai Council
Clyde	7/9/2023	9:50	XN60GO	Enfield FrontLift
Clyde	7/9/2023	9:51	CN84MI	Ku-ring-gai Council
Clyde	7/9/2023	9:51	XN65ZF	Hornsby Council
Clyde	7/9/2023	9:52	XO42KY	City of Canada Bay Council - Domest
Clyde	7/9/2023	9:55	XO07AG	Hornsby Council
Clyde	7/9/2023	9:56	XO72IH	Ku-ring-gai Council
Clyde	7/9/2023	9:58	XN79ZF	Hornsby Council
Clyde	7/9/2023	9:58	CL43JW	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	10:01	URM811	Cumberland Council - Auburn
Clyde	7/9/2023	10:04	URM818	Cumberland Council - Auburn
Clyde	7/9/2023	10:11	XO05IR	Quality Wire Pty Ltd
Clyde	7/9/2023	10:13	XO86IW	Sydney Waste Pty Ltd
Clyde	7/9/2023	10:19	XO85OZ	Cumberland Council - Auburn
Clyde	7/9/2023	10:20	XN23PF	URM Environmental Services Pty Limi
Clyde	7/9/2023	10:21	URM803	Cumberland Council - Auburn
Clyde	7/9/2023	10:23	XN26NX	Enfield FrontLift
Clyde	7/9/2023	10:23	CN99LG	Ku-ring-gai Council
Clyde	7/9/2023	10:25	XO26AN	Hornsby Council
Clyde	7/9/2023	10:27	CL51CZ	Strathfield Municipal Council
Clyde	7/9/2023	10:27	XO17GU	Fairfield City Council-waste
Clyde	7/9/2023	10:28	XO73IH	Ku-ring-gai Council
Clyde	7/9/2023	10:28	XN13RO	Enfield Bulk
Clyde	7/9/2023	10:30	XO32SV	Enfield RearLift
Clyde	7/9/2023	10:32	XN49HD	City of Canada Bay Council - TS&O
Clyde	7/9/2023	10:35	XN77DN	Ku-ring-gai Council
Clyde	7/9/2023	10:38	CM73SQ	Ku-ring-gai Council
Clyde	7/9/2023	10:41	URM841	Cumberland Council - Auburn
Clyde	7/9/2023	10:43	XO10AB	Hornsby Council
Clyde	7/9/2023	10:47	CP03AT	Canterbury-Bankstown Council
Clyde	7/9/2023	10:56	XN61LR	Fairfield City Council-waste
Clyde	7/9/2023	11:05	XO92AH	City of Ryde
Clyde	7/9/2023	11:09	XN37IM	Strathfield Municipal Council
Clyde	7/9/2023	11:09	XO49FF	Capital City Waste Services Pty Ltd
Clyde	7/9/2023	11:14	CP70DL	Strathfield Municipal Council
Clyde	7/9/2023	11:17	CP32YZ	Enfield FrontLift
Clyde	7/9/2023	11:19	CP80RB	Canterbury-Bankstown Council
Clyde	7/9/2023	11:32	CK68TO	Ku-ring-gai Council
Clyde	7/9/2023	11:33	XO14RB	Quality Wire Pty Ltd
Clyde	7/9/2023	11:33	CM16SR	Strathfield Municipal Council
Clyde	7/9/2023	11:44	URM817	Cumberland Council - Auburn
Clyde	7/9/2023	11:45	URM839	Cumberland Council - Auburn
Clyde	7/9/2023	11:47	XN19QA	Fairfield City Council
Clyde	7/9/2023	11:51	XN25IA	Cumberland Council - Auburn

Clyde	7/9/2023	11:53	URM898	Cumberland Council - Auburn
Clyde	7/9/2023	11:54	URM818	Cumberland Council - Auburn
Clyde	7/9/2023	11:56	URM803	Cumberland Council - Auburn
Clyde	7/9/2023	11:56	URM849	Cumberland Council - Auburn
Clyde	7/9/2023	11:57	XN26KZ	Enfield RearLift
Clyde	7/9/2023	11:57	XN23JX	Canterbury-Bankstown Council
Clyde	7/9/2023	11:57	XN26YU	City of Ryde
Clyde	7/9/2023	11:58	URM820	Cumberland Council - Auburn
Clyde	7/9/2023	12:00	URM821	Cumberland Council - Auburn
Clyde	7/9/2023	12:01	XN15XO	Canterbury-Bankstown Council
Clyde	7/9/2023	12:01	URM106	Cumberland Council - Auburn
Clyde	7/9/2023	12:04	XN04ZL	City of Ryde
Clyde	7/9/2023	12:07	XO86GD	City of Ryde
Clyde	7/9/2023	12:07	XN18XO	Canterbury-Bankstown Council
Clyde	7/9/2023	12:07	XO17SN	Cumberland Council - Auburn
Clyde	7/9/2023	12:09	URM841	Cumberland Council - Auburn
Clyde	7/9/2023	12:10	CM6555	Wanless Waste Management Pty Ltd
Clyde	7/9/2023	12:12	XN70ZM	City of Ryde
Clyde	7/9/2023	12:19	URM842	Cumberland Council - Auburn
Clyde	7/9/2023	12:29	XO52KY	City of Canada Bay Council - Domestic
Clyde	7/9/2023	12:31	XO26AN	Hornsby Council
Clyde	7/9/2023	12:35	URM811	Cumberland Council - Auburn
Clyde	7/9/2023	12:37	XO96PY	Wanless Waste Management Pty Ltd
Clyde	7/9/2023	12:42	XN02NR	Lane Cove Council
Clyde	7/9/2023	12:43	URM826	Cumberland Council - Auburn
Clyde	7/9/2023	13:01	XN75LQ	Revesby Biosecurity Treatment Facil
Clyde	7/9/2023	13:06	XO90JE	City of Canada Bay Council - Domestic
Clyde	7/9/2023	13:13	BQ60WN	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	13:16	XO72IH	Ku-ring-gai Council
Clyde	7/9/2023	13:20	BH63QY	Parramatta City Council Depot V101
Clyde	7/9/2023	13:28	URM921	URM Environmental Services Pty Limi
Clyde	7/9/2023	13:31	XN34EB	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	13:38	XO55DB	Enfield FrontLift
Clyde	7/9/2023	13:46	XO42KY	City of Canada Bay Council - Domestic
Clyde	7/9/2023	13:51	XO41KY	City of Canada Bay Council - Domestic
Clyde	7/9/2023	13:52	CN26UW	Enfield Bulk
Clyde	7/9/2023	14:01	XO10AG	Hornsby Council
Clyde	7/9/2023	14:05	XN79ZF	Hornsby Council
Clyde	7/9/2023	14:05	XO26AN	Hornsby Council
Clyde	7/9/2023	14:07	XO12AB	Hornsby Council
Clyde	7/9/2023	14:08	XN50ZK	Hornsby Council
Clyde	7/9/2023	14:08	XN78ZF	Hornsby Council
Clyde	7/9/2023	14:11	XN51ZK	Hornsby Council
Clyde	7/9/2023	14:15	XN65ZF	Hornsby Council
Clyde	7/9/2023	14:18	CK27AL	Ashfield Council
Clyde	7/9/2023	14:23	CM73SQ	Ku-ring-gai Council

Clyde	7/9/2023	14:24	CN99LG	Ku-ring-gai Council
Clyde	7/9/2023	14:29	XN54OS	Fairfield City Council
Clyde	7/9/2023	14:37	XQ93EY	JJ Richards & Sons Pty Ltd
Clyde	7/9/2023	14:48	XO07IT	Ku-ring-gai Council
Clyde	7/9/2023	15:01	XO73IH	Ku-ring-gai Council
Clyde	7/9/2023	15:24	URM836	Cumberland Council - Auburn
Clyde	7/9/2023	15:37	CK29AL	Ashfield Council
Clyde	7/9/2023	17:55	XN61FN	Enfield FrontLift
Clyde	7/9/2023	18:35	XN96LU	Enfield Bulk
Clyde	7/9/2023	18:59	XN87UY	Leichhardt Municipal Council
Clyde	7/9/2023	19:05	XO92SW	CBD Waste & Recycling Pty Ltd
Clyde	7/9/2023	19:20	XN61FN	Enfield FrontLift
Clyde	7/9/2023	19:27	XN88UY	Leichhardt Municipal Council
Clyde	7/9/2023	19:37	XO55IN	Leichhardt Municipal Council
Clyde	7/9/2023	19:49	XN96LU	Enfield Bulk
Clyde	7/9/2023	19:50	XN54IL	Revesby Biosecurity Treatment Facil
Clyde	7/9/2023	19:54	XN11OH	Doyle Bros t/a Faralga Pty Ltd
Clyde	7/9/2023	20:01	XO41DS	Revesby Biosecurity Treatment Facil
Clyde	7/9/2023	20:43	XO93KR	Enfield Bulk
Clyde	7/9/2023	21:02	XN96LU	Enfield Bulk
Clyde	7/9/2023	21:14	XO93KR	Enfield Bulk
Clyde	7/9/2023	21:45	XN54IL	Revesby Biosecurity Treatment Facil
Clyde	7/9/2023	22:07	XN96LU	Enfield Bulk
Clyde	7/9/2023	22:08	XN51GJ	Doyle Bros t/a Faralga Pty Ltd
Clyde	7/9/2023	22:26	XN54IL	SUEZ Recycling & Recovery-Sydney
Clyde	7/9/2023	22:39	XN42CY	Enfield RearLift
Clyde	7/9/2023	22:55	XN58OU	Enfield FrontLift
Clyde	7/9/2023	22:58	XN49CY	Enfield RearLift
Clyde	7/9/2023	23:01	XO00LY	Doyle Bros t/a Faralga Pty Ltd
Clyde	7/9/2023	23:31	XO55DB	Enfield FrontLift
Clyde	7/9/2023	23:39	XO51TL	Waste Clear Pty Ltd
Clyde	7/9/2023	23:58	CAL068	Enfield RearLift

Appendix D - Truck Noise Measurement Results

NOISE LEVEL MEASUREMENT RESULTS							
Time In	Company	Rego No	Make	Lift	Exhaust	LA Max	Impeded (Y/N)
08:01	Burwood Council	XQ82GB				66.1	N
08:03	Lane Cove Council	XO76MZ				65.8	N
08:06	City of Ryde	XO86GD	IVECO			84.4	N
08:10	SUEZ Recycling & Recovery-Sydney	XO84FH				73.1	N
08:12	Enfield FrontLift	XO18CZ				86.9	N
08:13	Leichhardt Municipal Council	CO41MK	HINO			85.4	N
08:13	Cumberland Council - Auburn	URM844				81.1	N
08:15	Cumberland Council - Auburn	CK41CQ				84.9	N
08:15	Cumberland Council - Auburn	URM817				86.6	N
08:16	Burwood Council	XQ81GB			FRONT	72.9	N
08:18	Cumberland Council - Auburn	URM842			FRONT	77.4	N
08:19	Leichhardt Municipal Council	CL41XK			FRONT	76.5	N
08:22	City of Ryde	XN04ZL	VEOLIA		FRONT	83.1	N
08:27	Canterbury-Bankstown Council	XN54WO				84.6	N
08:28	Lane Cove Council	XO07PF	ISUZU		REAR	73.7	N
08:31	Burwood Council	XQ83GB	JJs			74.3	N
08:34	City of Ryde	XO92AH				84.8	N
08:34	Strathfield Municipal Council	XN37IM				82.0	N
08:39	Lane Cove Council	XO73MZ	URM	SIDE	SIDE	77.9	N
08:41	Leichhardt Municipal Council	CI23DH				74.2	N
08:41	Leichhardt Municipal Council	XN87UY				77.9	N
08:43	Lane Cove Council	XO68MZ				85.5	N
08:44	JJ Richards & Sons Pty Ltd	XO38BZ	BUCHER	REAR	FRONT	74.7	Y
08:47	SUEZ Recycling & Recovery-Sydney	XO28ID	ISUZU	FRONT	RIGHT	73.8	N
08:51	Ashfield Council	CK27AL	IVECO	REAR		86.6	N
08:51	SUEZ Recycling & Recovery-Sydney	XN51RK		FRONT	RIGHT	75.0	N
08:52	Ku-ring-gai Council	CP19KQ	ISUZU	REAR		81.8	N
08:54	City of Canada Bay Council - Domestic	XO05IC	DENNIS	REAR		85.5	N

09:01	Ashfield Council	CK29AL	IVECO	REAR	RIGHT	79.1	N
09:07	Canterbury-Bankstown Council	XN72BC	IVECO	REAR	RIGHT	78.9	N
09:07	Canterbury-Bankstown Council	XN44VY	IVECO	REAR	LEFT	71.4	N
09:12	City of Canada Bay Council - Domest	XO90JE				81.0	N
09:13	Canterbury-Bankstown Council	CP02AT	IVECO	REAR	RIGHT	81.0	N
09:14	City of Canada Bay Council - Domest	XO41KY		SIDE	RIGHT	83.2	N
09:15	Enfield RearLift	CL43KU	ISUZU	REAR		72.2	N
09:16	Canterbury-Bankstown Council	XN05XO	IVECO	SIDE	LEFT	79.3	Y
09:17	Hornsby Council	XO11AB	DENNIS	REAR		84.0	N
09:23	Canterbury-Bankstown Council	XN62YA	IVECO			79.2	N
09:25	Enfield RearLift	XO44CU		REAR		78.3	N
09:26	Hornsby Council	XO10AG	DENNIS	SIDE	RIGHT	80.7	N
09:26	Hornsby Council	XO12AB	DENNIS	REAR	RIGHT	72.4	N
09:27	Hornsby Council	XN50ZK	DENNIS	REAR	RIGHT	74.5	N
09:27	City of Canada Bay Council - Domest	XO52KY	ISUZU	REAR	RIGHT	78.5	N
09:31	Canterbury-Bankstown Council	CJ18SV	IVECO			78.5	N
09:32	Ku-ring-gai Council	CN75MI				79.9	N
09:32	Leichhardt Municipal Council	XO55IN		REAR		77.6	N
09:32	JJ Richards & Sons Pty Ltd	XO29NQ		FRONT		79.4	N
09:33	Cumberland Council - Auburn	XO79RB		REAR		75.5	Y
09:35	Paper Resource Pty Ltd	XN29EW	SCANIA	FRONT		84.3	Y
09:35	Canterbury-Bankstown Council	XN18XO	IVECO	SIDE		74.8	Y
09:36	Hornsby Council	XN78ZF	DENNIS	SIDE		76.7	Y
09:37	Canterbury-Bankstown Council	XN55BI	IVECO	REAR		79.8	Y
09:38	Canterbury-Bankstown Council	XN44ML	IVECO	REAR	RIGHT	77.6	Y
09:40	Fairfield City Council-waste	XN78LI	ISUZU	REAR	RIGHT	73.8	Y
09:41	Hornsby Council	XN51ZK	DENNIS	SIDE	RIGHT	73.2	Y
09:42	Ku-ring-gai Council	XO44SM		REAR		73.5	Y
09:45	Ku-ring-gai Council	XO07IT		SIDE		74.3	Y
09:49	Strathfield Municipal Council	XN89XQ	VOLVO	SIDE		74.1	N

09:50	Ku-ring-gai Council	XO11IT	VOLVO	REAR		76.9	N
09:50	Enfield FrontLift	XN60GO		FRONT		81.6	N
09:51	Ku-ring-gai Council	CN84MI		REAR		70.3	Y
09:51	Hornsby Council	XN65ZF	DENNIS	SIDE	RIGHT	74.1	Y
09:52	City of Canada Bay Council - Domestic	XO42KY		SIDE	RIGHT	75.3	Y
09:55	Hornsby Council	XO07AG	DENNIS	REAR	RIGHT	73.4	N
09:56	Ku-ring-gai Council	XO72IH	VOLVO			76.7	Y
	Hornsby Council	XN79ZF	DENNIS	SIDE	RIGHT	75.9	Y
09:58	SUEZ Recycling & Recovery-Sydney	CL43JW	ISUZU	REAR		75.3	Y
10:01	Cumberland Council - Auburn	URM811	IVECO	SIDE		78.6	N
10:04	Cumberland Council - Auburn	URM818	IVECO	SIDE	RIGHT	80.9	N
10:11	Quality Wire Pty Ltd	XO05IR	VOLVO	BULK		76.2	N
10:13	Sydney Waste Pty Ltd	XO86IW		REAR		71.9	N
10:19	Cumberland Council - Auburn	XO85OZ				76.8	N
10:20	URM Environmental Services Pty Limi	XN23PF				73.8	N
10:21	Cumberland Council - Auburn	URM803				78.0	N
10:23	Enfield FrontLift	XN26NX		FRONT		77.8	N
10:23	Ku-ring-gai Council	CN99LG				77.8	N
10:25	Hornsby Council	XO26AN				79.6	N
10:27	Strathfield Municipal Council	CL51CZ	HINO	REAR		74.0	N
10:27	Fairfield City Council-waste	XO17GU		REAR	RIGHT	75.8	N
10:28	Ku-ring-gai Council	XO73IH	VOLVO	SIDE		75.7	Y
10:28	Enfield Bulk	XN13RO		BULK	RIGHT	74.1	Y
10:30	Enfield RearLift	XO32SV	ISUZU	REAR		74.5	Y
10:32	City of Canada Bay Council - TS&O	XN49HD	HINO	REAR		71.5	Y
10:38	Ku-ring-gai Council	CM73SQ		SIDE		78.3	N
10:41	Cumberland Council - Auburn	URM841		SIDE	CENTRE	78.2	N
10:43	Hornsby Council	XO10AB	DENNIS	REAR		73.1	N
10:56	Fairfield City Council-waste	XN61LR				74.4	N
11:05	City of Ryde	XO92AH	DENNIS	REAR	RIGHT	76.7	N

11:09	Strathfield Municipal Council	XN37IM	HINO	REAR		85.2	N
11:09	Capital City Waste Services Pty Ltd	XO49FF		REAR		69.5	N
11:14	Strathfield Municipal Council	CP70DL	HINO	SIDE		75.2	N
11:17	Enfield FrontLift	CP32YZ	VOLVO	FRONT		83.8	N
11:19	Canterbury-Bankstown Council	CP80RB	IVECO	SIDE		81.2	N
11:32	Ku-ring-gai Council	CK68TO	IVECO	SIDE	RIGHT	78.7	N
11:33	Quality Wire Pty Ltd	XO14RB		BULK		72.8	N
11:33	Strathfield Municipal Council	CM16SR	IVECO	SIDE	RIGHT	77.6	N
11:44	Cumberland Council - Auburn	URM817	IVECO	SIDE	RIGHT	81.5	N
11:45	Cumberland Council - Auburn	URM839		SIDE		79.3	N
11:47	Fairfield City Council	XN19QA	HINO		LEFT	84.7	N
11:51	Cumberland Council - Auburn	XN25IA		SIDE		86.0	N
11:53	Cumberland Council - Auburn	URM898	IVECO	SIDE	RIGHT	80.3	N
11:54	Cumberland Council - Auburn	URM818	IVECO	SIDE	RIGHT	80.8	N
11:56	Cumberland Council - Auburn	URM803	IVECO	SIDE	RIGHT	86.1	N
11:56	Cumberland Council - Auburn	URM849	IVECO	SIDE	RIGHT	79.0	N
11:57	Enfield RearLift	XN26KZ		REAR	RIGHT	79.7	N
11:57	Canterbury-Bankstown Council	XN23JX		SIDE	RIGHT	86.6	Y
11:57	City of Ryde	XN26YU	IVECO	SIDE	RIGHT	81.1	Y

Measured Truck Movements			Total Impeded Truck Movements		
	109			25	
Total Truck Movements - 7/9/2024			Unimpeded Truck Measurements		
	261			84	
Percentage % of Truck Movements measured - 16.08.2018			Total Small Truck Movements		
	41.7%			14	

Appendix C4 - Pest & Vermin Reports

SERVICE REPORT

24/11/2023

Service Performed by:

EXPERT JUDGEMENT

PEST MANAGEMENT PTY LTD

PO Box A25, ENFIELD SOUTH NSW 2133

enquiries@expertjudgementpest.com.au

Telephone: (02) 9715 5270

ABN 63 081 548 861

Property Detail:

Veolia Environmental Services (Australia) Pty Ltd
Clyde Transfer Terminal
322 Parramatta Road
AUBURN NSW 2144

Service Details:

A quarterly routine pest control service to internal and external areas for cockroaches, ants, spiders and rodents.

Inspected and treated all internal areas including kitchens, offices, staff room and toilets by using Goliath cockroach gel and Coopex dust spot spray.

Inspected and treated shed, pit and external areas by using Cislin 25 spray and Roban rodent bait.

Light rodent activity found in shed area and treated by using Roban rodent bait.

SERVICE REPORT

14/08/2023

Service Performed by:

EXPERT JUDGEMENT

PEST MANAGEMENT PTY LTD

PO Box A25, ENFIELD SOUTH NSW 2133

enquiries@expertjudgementpest.com.au

Telephone: (02) 9715 5270

ABN 63 081 548 861

Property Detail:

Veolia Environmental Services (Australia) Pty Ltd
Clyde Transfer Terminal
322 Parramatta Road
AUBURN NSW 2144

Service Details:

A quarterly routine pest control service to internal and external areas for cockroaches, ants, spiders and rodents.

Inspected and treated all areas including kitchens, offices, staff room, toilets, shed and pitt areas by using Cislin 25 spray, Coopex dust spot spray and Roban rodent bait.

Light rodent activity found in shed area and treated by using Roban rodent bait.

SERVICE REPORT

30/05/2023

Service Performed by:

EXPERT JUDGEMENT

PEST MANAGEMENT PTY LTD

PO Box A25, ENFIELD SOUTH NSW 2133

enquiries@expertjudgementpest.com.au

Telephone: (02) 9715 5270

ABN 63 081 548 861

Property Detail:

Veolia Environmental Services (Australia) Pty Ltd
Clyde Transfer Terminal
322 Parramatta Road
AUBURN NSW 2144

Service Details:

A quarterly routine pest control service to internal and external areas for cockroaches, ants, spiders and rodents.

Inspected and treated all areas including kitchens, offices, staff room, toilets, shed and pitt areas by using Cislin 25 spray, Goliath cockroach gel,

Coopex dust spot spray and Roban rodent bait.

Rodent activity found in shed and external areas and treated by using Roban rodent bait.

SERVICE REPORT

15/02/2023

Service Performed by:

EXPERT JUDGEMENT

PEST MANAGEMENT PTY LTD

PO Box A25, ENFIELD SOUTH NSW 2133

enquiries@expertjudgementpest.com.au

Telephone: (02) 9715 5270

ABN 63 081 548 861

Property Detail:

Veolia Environmental Services (Australia) Pty Ltd
Clyde Transfer Terminal
322 Parramatta Road
AUBURN NSW 2144

Service Details:

A quarterly routine pest control service to internal and external areas for cockroaches, ants, spiders and rodents.

Inspected and treated all areas including kitchens, offices, staff room, toilets, shed and pitt areas by using Cislin 25 spray, Goliath cockroach gel, Coopex dust spot spray and Roban rodent bait.

Light rodent activity found inside shed area and treated by using Roban rodent bait.