Annual Environmental Management Report 2022-23

For Woodlawn Waste Expansion Project & Woodlawn Alternative Waste Technology Project

December 2023

Quality Information

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Definitions/Abbreviations

AEMR	Annual Environmental Management Report
BTT	Banksmeadow Transfer Terminal
CoR	Chain of Responsibility
CTT	Clyde Transfer Terminal
DPE	NSW Department of Planning and Environment
EMP	Environmental Management Plan
EIS	Environmental Impact Statement
EP&A	Environmental Planning and Assessment Act 1979 (and Regulations)
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
ERP	Emergency Response Plan
IEA	Independent Environmental Audit
IMF	Crisps Creek Intermodal Facility
IOA	Independent Odour Audit
LEMP	Landfill Environmental Management Plan
LFG	Landfill Gas
LMP	Leachate Management Plan
LTP	Leachate Treatment Plant
LWMS	Leachate and Water Management System
MBT	Woodlawn Mechanical Biological Treatment Facility
MWOO	Mixed Waste Organic Output
MOP	Mining Operations Plan
NMMP	Noise Monitoring Management Plan
OEMP	Operational Environmental Management Plan (MBT)
PA	Project Approval
POEO	Protection of the Environment Operations Act 1997 (and Regulations)
RRO	Resource Recovery Order
RRE	Resource Recovery Exemption
SMA	Sydney Metropolitan Region
SWMP	Soil and WaterManagement Plan
TADPAI	Tarago and District Progress Association Inc
TPA	Tonnes per annum
Veolia	Veolia Australia and New Zealand
WIP	Woodlawn Infrastructure Plan
WOO	Woodlawn Organic Outputs

Executive Summary

This Annual Environmental Management Report (AEMR) has been prepared in accordance with the Woodlawn Waste Expansion Project under Project Approval (PA) MP10_0012 and the Alternative Waste Technology Project under PA 06_0239, as well as relevant legislative requirements.

On instruction from the NSW Department of Planning, Industry and Environment (DPE), the requirements under each PA have been combined in this AEMR to comprise collectively the 2022-23 reporting period respectively for:

- PA MP10_0012 (Schedule 7, Condition 5) for the Woodlawn Bioreactor Bioreactor and the Crisps Creek Intermodal Facility (IMF); and
- PA 06_0239 (Schedule 4, Condition 5) for the Woodlawn Mechanical Biological Treatment Facility (MBT).

This AEMR details the environmental performance of the Bioreactor, which incorporates the Woodlawn Bioenergy Power Station (Power Station) and the Leachate Treatment Plant (LTP), the IMF and the MBT for the reporting period, as a summary of environmental monitoring conducted pursuant to the PAs, as well as corrective actions resulting from any non-compliances identified and/or other findings from regulatory inspections, external and internal audit programs.

This AEMR covers the period of 9 September 2022 to 8 September 2023 (reporting period), reflecting the anniversary date from the commencement of expanded operations at the Bioreactor.

Part 1 Introduction

1.1 Eco-Precinct Overview

Veolia Environmental Services (Australia) Pty Ltd (Veolia) owns and operates the Woodlawn Eco-Precinct (Eco Precinct), which is located approximately 40 kilometres (km) south of Goulburn and 50 km north of Canberra, comprising the Bioreactor, the Power Station, the LTP, the IMF, the MBT, as depicted in **Appendix 1**, as well as a solar farm.

1.1.1 Woodlawn Bioreactor

The Bioreactor was the first stage of the Eco Precinct developed by Veolia and has been in operation since September 2004. The Bioreactor is approved to accept a maximum input of 1.13 million tonnes per annum (tpa) of waste.

Waste is deposited into the void of a remnant open cut mine, approximately 33 million cubic metres (m^3) in capacity. With the use of optimal moisture and temperature conditions, the Bioreactor achieves enhanced degradation to produce landfill gas, collected through a vast network of infrastructure within the landfill.

Methane is extracted from the landfill gas within the Power Station, which commenced operating in 2008, for conversion and supply as electricity into the energy grid.

Waste to the Bioreactor comes from the Sydney Metropolitan Region (SMA) via the IMF, also owned and operated by Veolia, and via road from regional councils and businesses.

1.1.2 Crisps Creek Intermodal Facility

The IMF forms an integral part of the logistical operations of the Eco-Precinct, and is located 8km from the Bioreactor in the township of Tarago, adjacent to the Goulburn- Bombala Railway line.

Waste from the SMA is transported, in shipping containers, via rail to the IMF, where they are unloaded and transferred to the Bioreactor by road trailers. The IMF is approved to accept 900,000tpa from Sydney.

1.1.3 Woodlawn Leachate Treatment Plant

The LTP, which commenced operations in 2018, extracts and treats leachate from the Bioreactor using a reverse osmosis and chemical process. Treated leachate is then transferred to the ED1 Coffer Dam located within the Eco Precinct. The LTP facilitates an improvement in environmental and operational performance by:

- allowing the extraction and treatment of greater volumes of leachate from the landfill void
- helping reduce the generation of odour from untreated leachate, and
- enabling more efficient gas extraction to maximise the waste to energy benefits of the Power Station.

1.1.4 Woodlawn Mechanical Biological Treatment Facility

The MBT Facility, which is located to the north-west of the Bioreactor, has been operating since 2017 and is approved to accept 280,000 tpa of waste (240,000 tpa of mixed waste and 40,000 tpa of garden waste).

The waste is processed in two separate streams, Municipal Solid Waste (MSW) and Food Organics Garden Organics (FOGO). Incoming waste is processed to extract recyclable materials or produce compost. The Mixed Waste Organic Output (MWOO) compost is matured on site with the intention to rehabilitate the neighbouring Woodlawn Zinc Copper mine through application to land.

A ban imposed by the NSW Environment Protection Authority (EPA) in October 2018 prevents the application to land of this type of material; however, Veolia was granted a site specific Resource Recovery Order and Exemption on 14 May 2020, which permits a trial of the use of Woodlawn Organic Outputs (WOO) in the rehabilitation of tailings dams at the Woodlawn Zinc Copper mine. The trial commenced in February 2021.

1.1.5 Woodlawn Solar Farm

A 2.3 megawatt (MW) solar farm, operational since 2019, is located adjacent to the MBT Facility. The electricity generated from this installment is directly utilised in MBT operations, and excess distributed for the Bioreactor operations. This infrastructure follows Veolia's commitment towards increasing resource recovery and energy efficiency at the Eco Precinct.

1.2 Key Eco Precinct Personnel

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1.3 Legislative Requirements

The main legislative instruments governing the environmental performance and activities undertaken at the various facilities within the Eco Precinct include the *Environmental Planning and Assessment Act 1979* (the EP&A Act) administered by the DPE, and the *Protection of the Environment Operations Act 1997* (POEO Act) administered by the EPA, as well as their respective associated regulations.

In addition to the 2 PAs, 3 Environment Protection Licences (EPLs) issued by the EPA under the POEO Act regulate the operational activities conducted at the Bioreactor, IMF and MBT respectively. Monitoring activities undertaken at all these facilities are reflected in the EPLs, consistent with PA requirements.

Environmental Management Plans (EMP) have also been prepared and approved by DPE to reflect the requirements of the PAs and EPLs for the operation of these facilities as follows:

- *Landfill Environmental Management Plan for the Woodlawn Bioreactor* (LEMP) (Veolia, August 2018)
- *Environmental Management Plan for Crisps Creek Intermodal Facility* (EMP) (Veolia, September 2016)
- *Operational Environmental Management Plan for Woodlawn Mechanical Biological Treatment Facility* (OEMP) (Veolia, January 2017)

These 3 documents concentrate on key environmental issues identified in the environmental assessment undertaken for the 3 facilities and set out the criteria for managing and monitoring environmental parameters such as water quality, waste, traffic, air quality, greenhouse gases, noise, landscape and vegetation and emergency response.

The above requirements stipulate the performance standards that need to be met to maintain compliance at the 3 facilities, and those relevant to the preparation of this AEMR are provided in **Table 1.3.1** and **Table 1.3.2** below.

***Table 1.3.1* Bioreactor and IMF conditions relevant for the preparation of this AEMR**

Schedule 7 - Environmental Management, Reporting and Auditing	
Condition	**Annual Environment Management Review**
5	One (1) year after the commencement of expanded operations, and annually thereafter, the Proponent shall prepare an Annual Environmental Management Report (AEMR) to review the environmental performance of the project to the satisfaction of the Director-General. This review must: **a)** describe the operations that were carried out in the past year; **b)** analyse the monitoring results and complaints records of the Project over the past year, which includes a comparison of these results against the • relevant statutory requirements, limits or performance measures/criteria; • monitoring results of previous years; and • relevant predictions in the EA; **c)** identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; **d)** identify any trends in the monitoring data over the life of the Project; and **e)** describe what measures will be implemented over the next year to improve the environmental performance of the Project.

***Table 1.3.2* MBT conditions relevant for the preparation of this AEMR**

Schedule 4 - Environmental Management, Reporting and Auditing

Condition	Annual Reporting
5	Every year from the date of this approval, unless the Director-General agrees otherwise, the Proponent shall submit an AEMR to the Director-General and relevant agencies. The AEMR shall: **a)** identify the standards and performance measures that apply to the development; **b)** include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; **c)** include a summary of the monitoring results for the development during the past year; **d)** include an analysis of these monitoring results against the relevant: • Impact assessment criteria; • Monitoring results from previous years; and • Predictions in the EIS; **e)** identify any trends in the monitoring results over the life of the development; **f)** identify any non-compliance during the previous year; and **g)** describe what actions were, or are being taken to ensure compliance.

Table 1.3.3 summarises the list of environmental approvals in place for the Bioreactor, IMF and MBT.

***Table 1.3.3* Environmental Approvals**

Description	Permit Number
Conditions of Development Consent: The Woodlawn Waste Management Facility (issued by DPE) and subsequent modifications.	31-02-99
Project Approval: *Woodlawn Waste Expansion Project* (issued by DPE) and subsequent modifications.	MP10_0012
Project Approval: *Woodlawn Alternative Waste Technology Project* (issued by DPE) and subsequent modification.	PA 06_0239
Special (Crown & Private Lands) Lease 20 (SML 20) (issued by the Department of Primary Industries)	SML 20
Woodlawn Bioreactor Environment Protection Licence (issued by EPA)	11436
Crisps Creek IMF Environment Protection Licence (issued by EPA)	11455
Woodlawn MBT Environment Protection Licence (issued by EPA)	20476
Woodlawn Organic Outputs Acid Mine Tailings Trial Exemption 2020 (issued by EPA)	N/A
Woodlawn Organic Outputs Acid Mine Tailings Trial Order 2020 (issued by EPA)	N/A
Water Access Licence: Willeroo Borefield (issued by Water NSW)	40WA411642
NSW Phylloxera Exclusion Zone Permit	OUT11/5415

1.4 Responsibilities

- Environmental monitoring for the Bioreactor, IMF and MBT was undertaken and/or supervised by Marea Rakete (Woodlawn Environmental Advisor), Callum Simpson (LTP Operations Supervisor),

Ryan Phillips (MBT Process Engineer) and suitably qualified experts, Consulting Earth Scientists and The Odour Unit in this reporting period.

- Environmental reporting for the Bioreactor, IMF and MBT was undertaken and/or supervised by Marea Rakete (Woodlawn Environmental Advisor), Callum Simpson (LTP Operations Supervisor), Ryan Phillips (MBT Process Engineer) and Ray Choy (Woodlawn Environmental Manager).
- Analysis of samples collected by Veolia were performed at Australian Laboratory Services Pty Ltd (ALS), a NATA accredited laboratory.
- The Odour Unit Pty Ltd (TOU) was appointed to conduct the annual Independent Odour Audit for the Bioreactor during the reporting period. The audit team was approved by the DPE.
- Jackson Environment and Planning Pty Ltd (JEP) was appointed to conduct the annual Independent Leachate and Water Management System Audit for the Bioreactor during the reporting period. The audit team was approved by the DPE.

Part 2 Environmental Monitoring and Management

2.1 Environmental Management

This section presents the monitoring undertaken at the Bioreactor, IMF and MBT throughout the reporting period in accordance with the requirements of the PAs, as detailed in the respective Environmental Monitoring (EMP). Where specific monitoring requirements or locations were not stipulated by the PAs, the monitoring requirements under the respective EPLs have been adopted to measure performance of implemented site controls to manage the environmental risks parameters assessed for the Eco Precinct sites.

The EMPs are used to facilitate monitoring requirements, which enable the continuous measuring and assessment of suitability, adequacy and effectiveness of on-site environmental management measures. These requirements are summarised in **Table 2.1.1**, **Table 2.1.2** and **Table 2.1.3** and discussed in the subsections below.

Table 2.1.1 **Bioreactor Monitoring Requirements**

PA/EMP Reference	Type of Monitoring	Frequency	Commentary
Schedule 4, Condition 3	Site Inspection	Daily	Ongoing basis
Schedule 4, Condition 7	Odour Audit	Annually	Condition satisfied , independent odour audit conducted March 2023
Schedule 4, Condition 11	Dust Monitoring	Monthly	Ongoing basis
Schedule 4, Condition 12/ Air Quality and Greenhouse management Plan	Odour – Site inspections	Daily or as required	Ongoing basis
Schedule 4, Condition 17/ Soil and Water management Plan/EPL	Surface water monitoring Groundwater monitoring Dam Level Survey	Quarterly/ Annually/ Monthly	Ongoing basis
Schedule 4, Condition 18/ Leachate Management Plan	Leachate pond and Leachate recirculation monitoring, Long-term Leachate Management Action Plan, LWMS Audit	Annually	Ongoing basis
Schedule 4, Condition 19/ Noise Management Plan	Noise Monitoring	As required	Not triggered

Schedule 4, Condition 22	Meteorological monitoring	Continuous	Ongoing basis
Schedule 4, Condition 23/ Landscaping and Vegetation Management Plan	Site Inspections	Weekly housekeeping	Ongoing basis
Schedule 4 Condition 24/ Pest ,Vermin & Noxious Weed Management	Site Inspections	Weekly housekeeping	Ongoing basis
Schedule 4, Condition 3	Site Inspection	Daily	Ongoing basis

Table 2.1.2 **Crisps Creek IMF Monitoring Requirements**

PA/EMP Reference	Type of Monitoring	Frequency	Commentary
Schedule 5, Condition 5	Litter control	Daily	Ongoing basis
Schedule 5 Condition 6/ Pest ,Vermin & Noxious Weed Management Plan	Site Inspections	Weekly housekeeping	Ongoing basis
Schedule 5, Condition 9	Odour Audit	Annually	Condition satisfied , independent odour audit conducted March 2023
Schedule 5, Condition 15	Noise Monitoring	As required	Not triggered

Table 2.1.3 **MBT Monitoring Requirements**

PA/EMP Reference	Type of Monitoring	Frequency	Commentary
Schedule 3, Condition 29 EPL Condition M4	Meteorological monitoring	Continuous	Ongoing basis
Schedule 3, Condition 23 & 24 EPL Condition M2.2	Depositional Dust Monitoring	Monthly	Ongoing basis
Schedule 3, Condition 25 & 26 EPL Condition L4	Operational noise monitoring	As required	Condition satisfied
Schedule 3, Condition 20 EPL Condition M2.3	Surface Water Monitoring	Quarterly	Ongoing basis
Schedule 3, Condition 20 EPL Condition M2.3	Groundwater Quality Monitoring	Quarterly	Ongoing basis
Schedule 3, Condition 20 EPL Condition M2.3	Leachate Monitoring	Six monthly	Ongoing basis
Schedule 3, Condition 6 EPL Condition L3.1	Waste volume monitoring	Daily	Ongoing basis
Schedule 3, Condition 9	Site Inspection and Housekeeping	Weekly	Ongoing basis

Schedule 3, Condition 10	Pest and Vermin Checks	Every two months	Ongoing basis
Schedule 3, Condition 29 EPL Condition M4	Meteorological monitoring	Continuous	Ongoing basis

2.2 Environmental Performance Measurement

Based on the risk predictions in the environmental assessments undertaken for the 3 facilities, the implemented control measures described in the EMPs have become the criteria to determine the environmental performance of the respective operations. These are summarised in **Table 2.2.1.**

***Table 2.2.1* Performance Criteria**

Environmental Parameter	Issue	Risk	Control Measure(s)
Air quality (dust and odour)	Emission of air pollutants and odour above the EPA guidelines.	Low level of risk for MBT based on EIS modelling Moderate - High risk for IMF and Bioreactor Landfill gas emissions	Monthly Dust monitoring and daily use of water cart. Annual Independent Odour Audits including leachate samples for odour assessment. LTP treating all leachate extracted from the void. Monthly surface gas monitoring programme Continuous H2S monitoring within Tarago (EPA point 71,72) Large buffer distance between the MBT, Bioreactor and sensitive receptors Sealed containers only at the IMF and full containers not stored

Greenhouse gas emissions and energy use	Excessive energy consumption and related GHG emissions	Insufficiently offset through generation of electricity from methane produced at the Bioreactor. Not meeting stakeholder expectations regarding GHG emissions capture or energy usage	Extraction & monitoring of the gas for green energy generation. Compliance reporting under the National Greenhouse and Energy Scheme. Installation of a solar farm as offset for energy consumption at the MBT
Surface Water	Contamination of surface water.	Contamination from leachate or stored chemicals possible without control measures, but unlikely due to existing approved Surface Water Management Scheme.	Ongoing Surface and Groundwater monitoring, Leachate monitoring. Dam integrity inspections. Dam freeboard control. Leachate Barrier system. 3 monitoring bores were added to the existing groundwater monitoring network and scheduled for construction to mitigate any risk from dam leakage. Stormwater management system.
Groundwater	Contamination of groundwater.	Contamination from leachate or stored chemicals is possible without control measures, however unlikely due to the use of leachate barrier systems and existing Groundwater Management Scheme.	
Noise	Increased noise impacts above the EPA guidelines.	Impacts on local residents.	In the event a noise complaint is received, noise monitoring is carried out at the site. All waste processing carried out indoors at MBT Facility. Permitted Operational Hours. Large buffer distance between the Bioreactor

			and MBT sensitive receivers.
Pest, disease and agriculture related impacts	Introduction of pests and the spread of disease as a result of the proposed expansion.	Degradation of local economic and environmental values possible without control measures, however unlikely due to existing approved, operational management measures.	Routine Site Inspections Vermin control measures in place for Bioreactor, MBT & IMF.
Traffic and transport	Significant impacts on the local Tarago community.	Impacting levels of service and traffic flow. The risk is rare due to the relatively low level of truck movements.	Limit the transfer of waste within approved operational hours and implementation of a Transport Code of Conduct. All drivers trained in National Heavy Vehicle Regulatory CoR modules.
Socio economic and visual amenity	Impact on existing social conditions and on the economic vitality of the Tarago district.	Negative impact on existing social conditions and on the economic vitality of the Tarago district; visual amenity impacts to sensitive receptors Rare as the Eco Precinct generates employment while amenity impacts are low.	Veolia has well established mechanisms for addressing community concerns and engaging with the community to manage any issues raised. A 24hr feedback line exists. Veolia has implemented the Veolia Mulwaree Trust which provides grant funding to Not for Profit organizations in the local region. Location of the site well away from the local road network and from neighbouring properties.
Hazardous Substances	Impacts to human health and the environment from expansion.	Hazardous materials impacting on human health and environment. Rare, as hazardous	All known hazards are understood and managed by Veolia with any incidents dealt with as part of the Emergency

		substances may not be received at the Bioreactor and IMF. Possible at LTP as it has stores of hazardous substances but very unlikely due to controls in place.	Response Plan (ERP) including PIRMP. Dangerous Goods and Hazardous Substance Register/Inventory. All hazardous substances stored according to Australian Standards. Inspection and testing of chemical management infrastructure

2.3 Environmental Monitoring

Veolia undertakes an environmental monitoring program in accordance with the requirements in EPL's 11436, 11455 and 20476. Environmental monitoring is completed in accordance with Veolia's environmental monitoring procedures, which specify the relevant standards and methodologies. EPL monitoring location plans are included in **Appendix 3**.

All monitoring data collected during this reporting period is summarised in **Sections 3.1, 4.1 and 5.1** and tabulated in **Appendix 5**. Graphs of data collected have been developed to assist in the assessment of trends and depict any variability within the monitoring results, and are presented in **Appendix 5**.

2.3.1 Air Quality

Air quality monitoring, pertaining to odour and dust, was undertaken in accordance with the relevant EMPs to determine whether activities conducted at the Bioreactor, IMF and MBT affected ambient air quality.

All operations and activities were carried out in a manner to minimise dust at the boundary of the Eco Precinct. These included all access roads from the IMF to the Bioreactor and MBT, and the haul road used for ancillary operations being sealed, the use of water trucks for dust suppression as required, and monthly sampling to monitor for the presence and quantity of depositional dust.

The active tipping face in the waste void is kept to a minimum surface area, to the extent practicable, to reduce potential fugitive odour emissions.

A landfill gas (LFG) capture network has been installed and expanded in accordance with the Woodlawn Infrastructure Plan. A biofiltration system is installed along the rock/waste interface to minimize odour emission. Leachate extraction from the waste is maintained to reduce the impact of leachate on LFG capture. Evaporation of stored leachate on site is also maintained to reduce the odour footprint. All leachate from the void is treated via the LTP to achieve higher effluent quality and minimize odour potential.

All operational buildings at the MBT are enclosed and equipped with Odour Control ducting connected to Biofilters. The Biofilters are inspected on a regular basis in accordance with the O&M manuals to maintain suitable moisture, air flow rate and pressure of the air from the buildings for maximum air quality and odour control.

Veolia operates the Bioreactor to maximise the production of landfill gas for generation of renewable energy at the Power Station, where 7 generators have been installed and commissioned, with 3 auxiliary flares as back up treatment of landfill gas emissions captured. The generators and flares satisfy the design, installation and operational requirements within the Bioreactor PA and EPL.

An annual independent odour audit (IOA) is used to assess the effectiveness of odour control measures and to identify improvements to existing odour management practices at the site.

2.3.2 Noise

Any noise emissions from the site with the potential to impact on nearby sensitive receivers remain within the criteria specified in the PA conditions. Veolia has implemented a number of noise minimising measures below:

- Waste filling operations below the ground levels
- Road Transport – Code of Conduct
- Waste operations within the approved specified hours
- Acoustic enclosures
- Use of hearing protection in restricted areas

Any noise emission incidents or complaints received will be managed and the appropriate corrective actions applied as outlined in the noise monitoring and management protocol within the noise monitoring and management plan (NMMP).

2.3.3 Soil, Water & Leachate

The processes and management of water quality is documented and implemented on site in accordance with each facility's respective EMP. The EMPs provide guidance on the management of surface and stormwater systems such as drainage and pumping networks to divert clean water from any water that has come in contact with waste or leachate, as required under the Bioreactor and MBT PAs.

Clean surface and stormwater collected from within the void is pumped to Evaporation Dam 3 South (ED3S) for evaporation.

Water that has come into contact with waste and/or leachate is partially treated within the leachate aeration dam and stored within the Evaporation Dams ED3N or ED3SS and/or pumped to the onsite LTP for treatment and transferred for storage in Evaporation Dam (ED1) Coffer Dam 1 and Coffer Dam 2 for evaporation and potential use as process water for Develop when they recommence mining operations. Mechanical evaporators may be used to assist evaporation and are controlled by wind direction sensors to prevent the drifting of sprayed liquids from the premises.

Soil monitoring is not undertaken as there is minimal risk of further contamination from water sources given the degraded nature of the disturbed mine site. However, erosion and sediment control measures have been implemented onsite to protect water storages from contaminated run-off.

2.3.4.1 Leachate Treatment System

The leachate treatment system continued to be maintained and operated to optimise the Bioreactor conditions for treatment of leachate, other wastewaters and stormwater entering the void. Excess leachate was extracted, treated and transferred for storage in ED3 lagoons 1, 2, 3, 4 & 5 (ED3N-1, ED3N-2, ED3N-3 & ED3N-4, ED3SS).

The LTP commenced operations in 2018, treating leachate from the Bioreactor using an ultrafiltration membrane bioreactor. Treated leachate is then transferred to ED1 Coffer Dam 1, constructed within the footprint of ED1. The LTP facilitates an improvement in environmental and operational performance by:

- Allowing the extraction and treatment of greater volumes of leachate from the landfill void;
- Helping reduce the generation of odour from untreated leachate, and
- Enabling more efficient gas extraction to maximise the waste to energy benefits of the Power Station.

Leachate from the waste which is transported to the IMF via Veolia's Sydney transfer facilities continued to be the only liquid imported into the void during this reporting period, and was processed through the leachate treatment system as approved by the EPA.

In accordance with Schedule 4, Condition 18M of MP10_0012, updates on volumes and remaining storage volumes of leachate within ED3S-S and ED1 Coffer Dam are reported to the DPE on a quarterly basis.

2.3.4.2 Water Balance

The Woodlawn Bioreactor water balance is a complete and tightly coupled system. It is important to focus on all elements of the water balance as a collective when considering any actions to be taken in order to achieve the overall purpose of the facility which is to maximise gas capture.

The elements of the Woodlawn Bioreactor water balance can impact each other and ultimately the effectiveness of gas generation and collection include:

- Leachate generation - Liquid inputs to waste (storm water, waste, groundwater ingress);
- Stormwater interception (rock walls and surface of waste);
- Leachate absorption (waste absorption capacity);
- Leachate removal (treatment);
- Leachate treatment (Leachate Treatment Dam (LTD) and Leachate Treatment Plant (LTP)); and
- Liquid storage (Stormwater, LTD treated leachate and LTP permeate).

The Independent Leachate and Water Management System audit carried out during the reporting period determined that the 2017 water balance had not been a reliable predictor of rainfall, evaporation rates, and levels in dams for the Bioreactor. As a consequence, inflows into the dam systems have exceeded outflows, leading to increasing dam levels which exceed freeboard levels.

On 28 February 2023, Veolia submitted to the DPE short to medium, and long term leachate and water management strategies developed by Engeny for rectifying and improving the sites overall water management, in accordance with the Development Control Order issued to Veolia by the DPE on 1 April 2022. Veolia is in the process of implementing all strategies.

Engeny are currently undertaking additional water balance modeling to validate the short to medium term water and leachate management strategies implemented, and will provide guidance and recommendations in that process on long term leachate and water management strategies specific to the remaining requirements.

2.3.4 Waste Management

All waste received was in accordance with the waste types permitted in the Bioreactor and MBT PA and EPL. Acceptance and screening of waste prior to final disposal was in accordance with the requirements of the Woodlawn Receipt of Non-Conforming Waste Work Instruction to ensure only conforming waste is received.

Visual assessments of incoming waste were conducted by operators, as tipping/unloading occurred on the landfill surface. No records of non-conforming waste were recorded during this reporting period.

2.3.5 Meteorological Monitoring

Monitoring meteorological data during this reporting period provided an understanding of the ambient air (such as dust and odour) and rainfall conditions at the Eco-Precinct, which was utilised to manage environmental performance, as well as investigate potential impact to nearby sensitive receivers.

In accordance with Schedule 4, Condition 22 of the Consent MP10_0012, an onsite automated meteorological monitoring station was operated during the reporting period to monitor weather conditions representative of the site. Meteorological data recorded includes (but is not limited to):

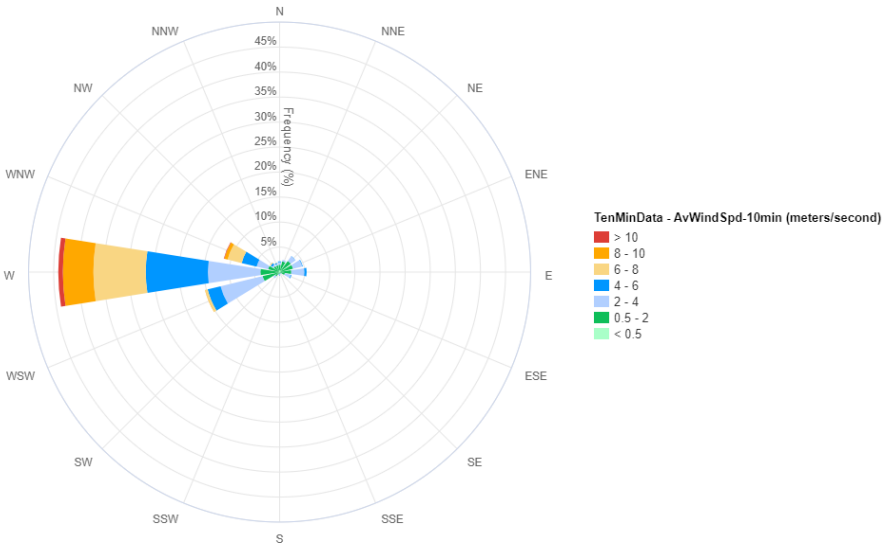
- Wind speed at 10m;
- Wind direction at 10m;
- Temperature at 2m;
- Temperature at 10m;
- Rainfall;
- Solar radiation; and
- Sigma theta at 10m.

The wind speed, direction, as well as the sigma theta (which is used to calibrate turbulence) are recorded at 60-minute intervals, which are used to respond to complaints about odours and noises that are received.

Meteorological data is logged in 60 minute and 24 hour intervals and can be made available for the reporting period upon request. Servicing and calibration of the meteorological station is carried out quarterly by Hydrometric Consulting Services.

Figure 1.5.8 below indicates average wind speed and direction during the reporting period.

Figure 1.5.8 Average Wind Speed (km/h) and Direction



Source: https://www.willyweather.com.au/

The wind rose above depicts the average wind speed and direction recorded at 10m above ground level from September 2022 to September 2023. Average wind speeds over the reporting period ranged from 0 km/h to 49.6km/h with strong prevailing winds typically from the West (W) directly toward Tarago and surrounding areas.

An analysis of the correlation between reports of odour complaints and meteorological data such as wind speed, wind direction, and temperature at the time and place when the alleged odour emission occurred confirms the validity of this model.

According to the Woodlawn Weather Station, total rainfall over the reporting period was 789.5 mm, which is approximately 296 mm below the previous period (1085.5mm). This is extremely lower than the total of 1,166.5 mm of rainfall recorded in 2021, the highest annual rainfall since 1974 (1,178.0mm), and the third highest rainfall since 1950 (1,305.1mm).

Part 3 Woodlawn Bioreactor

3.1 Bioreactor Monitoring Results

3.1.1 Bioreactor Landfill Gas Monitoring Results

Gas monitoring is a critical component of the Bioreactor's landfill and subsurface gas monitoring regime.

Gas monitors (PGM's) and gas analysers, such as the GEM5000 and TDL Landfill Gas Analyzer, are used to conduct spot readings, measure landfill conditions moment by moment, and verify monthly landfill surface gas surveys and subsurface gas monitoring in-house. Consulting Earth Scientists (CES) have been engaged to perform the EPL monthly monitoring of landfill surface gas in accordance with the special methodology and landfill gas emissions trigger action response plan.

The findings from Landfill gas monitoring required under the Bioreactor PA and EPL is summarised in **Table 3.1.1** below.

***Table 3.1.1* Bioreactor Landfill Gas Monitoring Results**

<table>
<tr><th>Parameter</th><th>Results/Discussion</th></tr>
<tr><td>Subsurface Gas</td><td>Subsurface landfill gas is currently monitored on a quarterly basis from three (3) subsurface gas monitoring locations in accordance with the EPL requirements and is summarised in Table 1.5.1.1 below:

Table 1.5.1.1: Subsurface Gas Monitoring Result
<table><tr><th rowspan="2">Monitoring Bore ID</th><th colspan="4">Purged Methane Reading (%)</th></tr><tr><td>15/11/2022</td><td>15/02/2023</td><td>18/05/2023</td><td>17/08/2023</td></tr><tr><td>GMBH1</td><td>0</td><td>0</td><td><0.1</td><td><0.1</td></tr><tr><td>GMBH2</td><td>0</td><td>0.1</td><td><0.1</td><td><0.1</td></tr><tr><td>GMBH4</td><td>0</td><td>0</td><td><0.1</td><td>0.2</td></tr></table>
The subsurface gas data recorded at each gas monitoring well was compared against The Environmental Guidelines: Solid Waste Landfills (NSW EPA, 2016) trigger criteria for methane (> 1% (v/v)) and carbon dioxide (> 1.5% above background levels).

The results show that the gas collection network is effectively capturing and controlling landfill gas within the landfill void. Engineered impermeable barriers and the natural subsurface of the void wall also minimises the potential movement of landfill gas from the Bioreactor, allowing for maximum extraction through the gas collection system.

The monitoring data for each of the subsurface gas monitoring bores is provided in Tables 1.1 to 1.3 (refer Appendix 4).</td></tr>
</table>

Landfill Gas Extraction Booster

The data reported for the landfill gas extraction booster at the Power Station is consistent to the historical average as summarised in **Table 1.5.1.2** below:

Table 1.5.1.2: Landfill Gas Extraction Booster Monitoring Results Summary

Parameter	Historical Average	2022-23 Result
Temperature (°C)	2.7	2
Volumetric Flow (m³/s)	0.67	1.1
Carbon Dioxide (%)	38.8	34.8

The detailed data for each of the parameters required under the EPL for the gas extraction booster is provided in **Tables 2.1** and **2.2** (refer **Appendix 4**).

Surface Gas

Surface gas monitoring was completed on a quarterly basis as per EPL requirements, which are summarised in **Table 1.5.1.3** below. The detailed tabulated data is available in **Tables 3.1** to **3.9** (refer **Appendix 4**).

Table 1.5.1.3: Surface Gas Monitoring Results Summary

Parameter (ppm)	Minimum	Average	Maximum
Methane	0	65	14000
Hydrogen Sulfide	0	0.039	19

Methane was detected in varying concentrations over the waste surface with an overall average of 65 ppm (0.005%) during this reporting period, showing consistency with 54.5 ppm (0.005%) last reporting period.

Identified through surface gas monitoring, areas where higher methane levels were recorded had additional cover material added to maintain the average methane emissions below the threshold concentration in surface gas emission testing of 500 parts per million (0.05%), as per the *Environmental Guidelines for Solid Waste Landfills* (EPA, 2016).

Application of cover material in areas of the void demonstrating settlement cracking, commissioning and rebalancing of gas extraction wells and installing additional gas collection infrastructure were methods used to reduce surface gas emissions. Mulch bio-cover was applied around wells, which has assisted in mitigating odour and reducing surface gas emissions as well as an approved Alternative Daily Cover (ADC).

Veolia's Trigger Action Response Plan and "Special Methodology" for the sampling of Landfill Surface Fugitive Gas Emissions, was added to the EPL under Condition O6.32 and implemented in July 2022.

<table>
<tr><td>Landfill Gas Flare</td><td>The landfill gas flares are manufactured to a residence time of 0.3 seconds with a destruction efficiency of 98% for methane and non methanogenic organic compounds to meet the requirements of the EPL.

Monitoring was continuously performed during this reporting period, an average of which is summarised in Table 1.5.1.4 below.

Table 1.5.1.4: Landfill Gas Flare Monitoring Results
<table><tr><th>Parameter</th><th>Units</th><th>Flare 1</th><th>Flare 2</th><th>Flare 3</th></tr><tr><td>Temperature</td><td>°C</td><td>1,100</td><td>1,102</td><td>1,102</td></tr><tr><td>Residence Time</td><td>Seconds</td><td>>0.3</td><td>>0.3</td><td>>0.3</td></tr></table></td></tr>
<tr><td>Landfill Gas Engine Exhaust Point(s)</td><td>Monitoring of a landfill gas engine exhaust point was completed during the reporting period. The results are consistent with the previous monitoring period and presented in Tables 4.1 and 4.2 (refer Appendix 4).

Concentration limits for each of the following pollutants are stipulated in the EPL, all of which were below the threshold for the exhaust point test within this reporting period and consistent with previously reported levels.

• Nitrogen Oxides;
• Hydrogen Sulphide;
• Volatile Organic Compounds;
• Sulphuric Acid Mist; and
• Sulphur Trioxide.

Table 1.5.1.5: Landfill Gas Engine Exhaust Point Monitoring
<table><tr><th>Concentration (mg/m³)</th><th>Maximum</th><th>Result</th></tr><tr><td>Hydrogen Sulphide</td><td>5</td><td><1</td></tr><tr><td>Sulfuric acid mist and sulfur trioxide (as SO3)</td><td>100</td><td>4.8</td></tr><tr><td>Nitrogen Oxides</td><td>450</td><td>310</td></tr></table></td></tr>
</table>

3.1.2 Bioreactor Dust Monitoring Results

Air quality monitoring was carried out as required to determine whether activities conducted at the site impacted ambient air quality. Operations were carried out in a manner targeted to minimising emissions of dust from the premises.

Dust suppression control measures employed during the reporting period included but was not limited to:

- A water cart used on access roads to suppress and/or clear dust, as required
- The wheel wash ensures that trucks travelling from the Bioreactor to the IMF minimise the transport of particulate matter into the surrounds
- Truck speed and movements on-site are minimised as much as practicable, with speed limits no greater than 40km/h
- All trucks entering and leaving the premises carrying loads must be covered at all times, except during loading and unloading

Sampling and analysis of dust deposition was carried out in accordance with Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method, as specified in the Bioreactor PA.

The criteria for deposited dust at the Bioreactor is assessed as insoluble solids and provided in **Table 3.1.2.1.**

***Table 3.1.2.1* Bioreactor Depositional Dust Long Term Criteria**

Pollutant	Averaging Period	Maximum Increase	Maximum Total Level
[c]Deposited Dust	Annual	[b]2 g/m^2/month	[a]4 g/m^2/month

Criteria Notes:

[a]Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to other sources);

[b] Incremental impact (i.e. incremental increase in concentrations due to the project on its own);

[c] Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and

[d]Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed to by the Director-General in consultation with OEH.

There are currently three dust deposition gauges associated with the Woodlawn operation. DG22 on the eastern side of the void, DG34 behind the core shed, and DG28 located at Pylara. These are sampled each month as shown in **Table 3.1.2.2**.

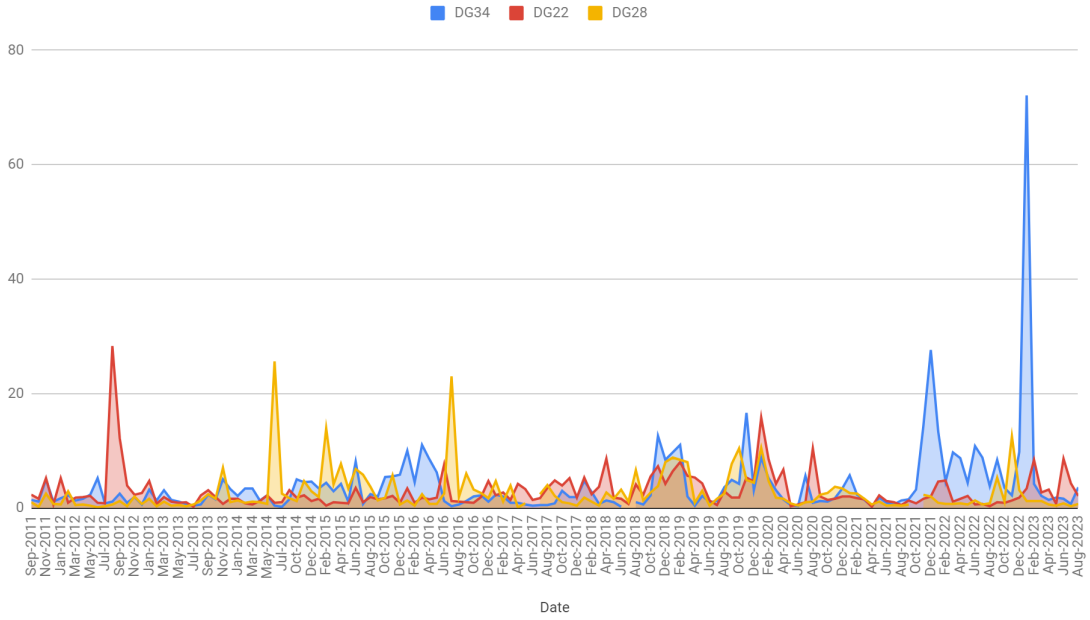
***Table 3.1.2.2* Bioreactor Dust Monitoring Results**

<table>
<tr><th>Parameter</th><th>Results/Discussion</th></tr>
<tr><td>Particulates/ Dust Monitoring</td><td>All twelve monthly monitoring samples were undertaken during the reporting period. The results of total insoluble solids found within the depositional dust samples are summarised for each of the monitoring locations in Table 1.5.2.1 below, with the detailed results tabulated in Table 5.1 (refer Appendix 4).

Table 1.5.2.1: Dust Monitoring Results
<table><tr><th rowspan="2">Dust Gauge</th><th colspan="3">Summary Total Insoluble Solids (g/m²/month)</th></tr><tr><th>Minimum</th><th>Average</th><th>Maximum</th></tr><tr><td>DG22</td><td>0.7</td><td>3.2</td><td>8.6</td></tr><tr><td>DG34</td><td>0.7</td><td>9.3</td><td>72.1</td></tr><tr><td>DG28</td><td>0.3</td><td>2.4</td><td>12.5</td></tr></table>
The annual average results for depositional dust were below the rolling average criteria of 4 g/m^2/month with the exception of DG34 which recorded higher than average total insoluble solids during the period Sep 2022 – Feb 2023.

The cause of the higher than average reading is consistent with the extremely high quantity of standing pasture in the grazing paddock where DG34 is located, and a scrub fire to the west of the premises on 2 February 2023. This observation is substantiated with laboratory results which show a high monthly quantity of combustible matter and very low monthly residual ash content recorded for the gauge during the period.</td></tr>
</table>

Figure 3.1.2.3 **Bioreactor Dust Monitoring Results**



3.1.3 Bioreactor Surface Water Monitoring Results

A surface water monitoring program is established to detect potential pollution of offsite surface water by leachate or sediment-laden stormwater from the landfill. Monitoring points are located upstream and downstream of the site to identify any impacts the Woodlawn operations may be having on surface waters and equally, eliminate impacts to surface waters that are not a result of the landfill operation.

The findings from water quality monitoring of surface water locations required under the Bioreactor PA and EPL is summarised in **Table 3.1.3** below with detailed data provided in **Tables 6.1 - 6.11** (refer **Appendix 5**). Key quality indicators selected to identify likely impacts from the Bioreactor include:

- pH
- Electrical conductivity (EC),
- Ammonia (NH_3),
- Total organic carbon (TOC) and
- Potassium (K).

These are depicted in the trend graphs **(Figures 1.5.3.1 – 1.5.3.11)** provided in **Appendix 5.**

Table 3.1.3 **Bioreactor Surface Water Monitoring Results**

Parameter	Results/Discussion
Site 115 – Allianoyonyiga Creek	Site 115 measures water quality downstream of ED2 in Allianoyonyiga Creek. All four quarterly monitoring samples were undertaken in this monitoring period. Based on the results provided in **Table 6.1** (refer **Appendix 4**), the pollutant concentration trends from previous monitoring periods are generally consistent. • Mean pH at 7.89 for this location indicates slightly alkaline water; • EC at 1792 µS/cm, indicating fresh to brackish water; • NH_3 at 0.12 mg/L and TOC at mean of 14.5 mg/L concentrations recorded in this monitoring period remain consistent with historical monitoring results; • Mineral concentrations remain fairly low at 2.68 mg/L for K, indicating no contaminated runoff is impacting surface water at this monitoring location. Historical results show that pH is typically slightly above neutral, whilst conductivity fluctuates considerably most likely due to seasonal wetting and drying cycles
Spring 2	Spring 2 is located upstream of the Bioreactor and adjacent to Crisps Creek. The site therefore provides background water quality information to site operations. The spring naturally overflows to Crisps Creek during rainfall events. 4 out of 4 quarterly monitoring events required under the EPL were undertaken in this monitoring period, and have been documented in the Annual Return. Water quality trend in Spring 2, based on the results provided in **Table 6.2** (refer **Appendix 4**), is consistent with water quality from historical monitoring records. • pH is consistent with previous years (average 7.36) and reflective of the overall range of 6.06 - 7.43 for this location;

	• EC (average 3932 µS/cm) for this reporting period is showing an increasing trend; • K (average 2.63 mg/L) concentrations continue to show slow decline from overall averages with some variability likely due to dilution following wet weather periods and concentration during drier periods; • NH_3 (average 0.1 mg/L) and TOC (average 32 mg/L) concentrations recorded in this monitoring period are consistent with historical monitoring results. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
Site 105 – Crisps Creek	Site 105 is located on the north east perimeter of the site on Crisps Creek. Crisps Creek is ephemeral and therefore sampling only occurs when the creek is flowing after rain events. All quarterly monitoring requirements were undertaken in this monitoring period. Water quality trends in Site 105, based on the results provided in **Table 6.3** (refer **Appendix 4**) are consistent with previous monitoring results. • pH (7.5) is within the overall range of 7.06 - 7.96 for this location, indicating relatively neutral water; • EC (1470 µS/cm) is consistent with historical results, reflecting brackish water; • TOC (26 mg/L) and NH_3 (0.13 mg/L) were consistent with historical trends; • K remains consistent averaging 2.5 mg/L, slightly higher than previous results. The water quality fluctuates in response to rainfall and can contain higher salt content particularly during low flow or following extended dry conditions. During the reporting period Crisps Creek has consistently had water flow due to the above average rainfall experienced across the region.
WM200 - Raw Water Dam	The RWD (also referred to as Woodlawn Dam) contains water pumped from the Willeroo borefield and runoff from the western ridge of Rehabilitated Waste Rock Emplacement. This water is natural and can be used as an indication of background levels in the area. Quarterly monitoring events were undertaken in accordance with EPL conditions. Based on the results provided in **Table 6.4** (refer **Appendix 4**), the results for WM200 remain generally consistent with the previous reporting periods. • pH (average 7.7) indicates slightly alkaline water; • EC (average 958µS/cm) is slightly lower but overall consistent with historical results; • TOC was an average of 10.2 mg/L in this reporting period which is consistent with historical results. This could be reflective of the presence of organic matter from riparian zone vegetation surrounding the dam; • NH_3 at an average of 1.07 mg/L is consistent with historical results. The pH is generally close to neutral although it fluctuates ±1pH unit, while the conductivity long term average is around 1000 µS/cm, a reading of 548 in Q1 of the reporting period reflected a dilution of salts in the borefield and from surface flows during the recent wet cycle.

WM201 – Entrance Road Culvert	The Entrance Road Culvert collects surface water runoff from the Bioreactor administration office and workshop areas. 3 of 4 monitoring quarters were sampled during the reporting period. Water quality trends for WM2011, based on the results provided in **Table 6.5** (refer **Appendix 4**). • pH (7.1) is within the overall range of 5.53 – 8.56 for this location, indicating relatively neutral water; • EC (1289 µS/cm) showing an increasing trend; • TOC (8.6 mg/L) remains consistent with previous reporting periods; • NH_3 (0.3 mg/L) concentration are consistent with historical trends; • K (average 2.6 mg/L) is lower than historical levels. Veolia will continue monitoring this location in the next reporting period for any runoff impacts.
ED3SS – Lagoon 5	Evaporation Dam 3 South-South (ED3SS) is a storage point to manage treated leachate by evaporation. Quarterly monitoring events were undertaken in accordance with the EPL. Based on the water quality results provided in **Table 6.6** (refer **Appendix 4**), for ED3SS, the following can be confirmed: • pH (average 8.3) appears to be fairly consistent with the existing treated leachate quality; • EC average (18560 µS/cm) indicates an increasing trend from previous reporting periods; • K averages (1325 mg/L) appears to be fairly consistent with the existing treated leachate quality; • NH_3 concentrations (average 148 mg/L) lower than previous monitoring periods; • TOC (average 1775 mg/L) trends downwards from previous reporting periods. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
WM203 – Evaporation Dam 3 North	Evaporation Dam 3 North (ED3N) is a storage point to manage treated leachate by evaporation. Quarterly monitoring events were undertaken in accordance with the EPL. Based on the water quality results provided in **Table 6.7** (refer **Appendix 4**), for WM203, the following can be confirmed: • pH (average 8.3) is consistent with previous reporting periods; • EC average (28370 µS/cm) is consistent with previous reporting periods; • NH_3 concentrations (average 165 mg/L) showing an increase from the previous reporting period; • TOC average (2075 mg/L) has decreased from the previous reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
Pond 5	Pond 5 is situated on a bench within the landfill void and acts as a transfer point to capture stormwater from the walls of the landfill void to Evaporation Dam 3 South. All quarterly monitoring events required under the EPL were undertaken in this monitoring period, the results of which are tabulated in **Table 6.8** (refer **Appendix 4**). These water quality results are consistent with previous reporting periods.

	• pH average of 6.9 confirms acidic nature of water that comes in contact with the void walls and is lower than previous results; • EC (average 8944 µS/cm) is higher than previous results; • K average of 137 mg/L shows an upwards trend; • NH_3 (average 300 mg/L) and TOC (average 219 mg/L) both show increasing trends which appear quite variable over historical monitoring results. These results and trends are deemed representative of the stormwater quality captured from the walls of the void.
WM202 – ED3S	Evaporation Dam 3 South is a storage point to manage stormwater from the void by evaporation. Quarterly monitoring events were undertaken in accordance with EPL conditions. Water quality results indicated a similar trend to previously reported data as seen **in Table 6.9** (refer **Appendix 4**). • pH levels indicate an acidic, yet stable trending result with the average pH of 4.2 appearing to be generally consistent with previous reporting periods; • K at an average of 15 mg/L is consistent with previous reporting periods; • EC (average 3332 µS/cm) is indicating a downward trend; • NH_3 concentrations (average 29 mg/L) is also lower than previous reporting periods. The majority of the analytes tested at this location during this monitoring period indicates a downward trend in concentrations in comparison to previous reporting periods.
Evaporation Dam 1 (ED1)	Evaporation Dam 1 (ED1) is a storage point to manage runoff stormwater from its external catchment including dolerite stockpile area. Quarterly monitoring events were undertaken in accordance with the EPL. Based on the water quality results provided in **Table 6.10** (refer **Appendix 4**), for ED1, the following can be confirmed: • pH (average 3.17) which is consistent with previous reporting periods; • EC (average 14120 µS/cm) is slightly higher than previous reporting periods; • K levels (average 142 mg/L) is consistent with the previous reporting period; • NH_3 concentrations (average 11.7 mg/L) showing a slight increase in results over the reporting period; • TOC averages 28 mg/L is lower than previous reporting periods. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
ED1 Coffer Dam#1	Evaporation Dam 1 (ED1) coffer dam is a storage point to manage treated leachate from the Leachate Treatment Plant. Monthly monitoring events were undertaken in accordance with the EPL. Based on the water quality results provided in **Table 6.11** (refer **Appendix 4**), for ED1 coffer dam, the following can be confirmed: • pH (average 8.9) is consistent with the previous reporting period; • EC (average 17275 µS/cm), BOD (average 16.3 mg/L) and COD (2045 mg/L) results are consistent previous reporting period results; • NH_3 concentrations (averaging less than 7.25 mg/L) remained stable over the reporting period;

	• Chloride averages (2912 mg/L) remained stable however declining over the reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
ED1 Coffer Dam#2	Evaporation Dam 1 (ED1) coffer dam is a storage point to manage treated leachate from the Leachate Treatment Plant. Monthly monitoring events were undertaken in accordance with the EPL. Based on the water quality results provided in **Table 6.12** (refer **Appendix 4**), for ED1 coffer dam, the following can be confirmed: • pH (average 8.5) is consistent with Coffer Dam#1 during reporting period; • EC (average 18950 µS/cm), BOD (average 6.5 mg/L) and COD (2215 mg/L) results consistent during the reporting period; • NH_3 concentrations (average 1.7 mg/L) remained stable over the reporting period; • Chloride averages (2495 mg/L) is consistent with Coffer Dam#1. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.

3.1.4 Bioreactor Leachate Monitoring Results

Leachate quality monitoring is undertaken annually at 2 monitoring locations in the Bioreactor as required by the EPL. Effluent quality from the Leachate Treatment Plant is also monitored and sampled.

The findings from this reporting period are summarised in **Table 3.1.4** below with the detailed data provided in **Tables 7.1** and **7.2** (refer **Appendix 5**). The key quality indicators selected to characterize the leachate and identify any migration into groundwater or surface water monitoring locations include:

- pH,
- Electrical Conductivity (EC),
- Sulphate (SO_4),
- Lead (Pb),
- Zinc (Zn),
- Ammonia ($NH_{3)}$, and
- Total Organic Carbon (TOC).

These are also depicted in the subsequent trend graphs **Figures 1.5.4.1** and **1.5.4.2** (refer **Appendix 5).**

Table 3.1.4 Bioreactor Leachate Monitoring Results

Parameter	Results/Discussion
Leachate Dam	The leachate dam is located at the northwest rim of the landfill void where leachate collected and extracted from the void is treated by aeration to oxidise organic compounds. An annual monitoring round was completed during this reporting

	period as per the requirements of the EPL. Based on the results provided in **Table 7.1** (refer **Appendix 4**), the characteristics of the leachate are: • pH (8.5) and EC (26908 µS/cm) is consistent with the previous reporting period; • SO_4 one of the dominant anions, (300 mg/L) is consistent with previous reporting readings; • Pb (0.004 mg/L) and Zn (0.96 mg/L) is less than previous reporting periods; • NH_3 (2200 mg/L) is higher than previous reporting periods; • TOC (4100 mg/L) is higher than the previous reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
Leachate Recirculation System	An annual round was completed during this reporting period in accordance with the EPL, the results of which are detailed in **Table 7.2** (refer **Appendix 4**). Based on these results, the leachate collected directly from the recirculation system displays similar characteristics to the leachate pond, with some exceptions as summarised below: • pH (8.18) is generally consistent with previous reporting period; • EC (38551 µS/cm) is higher than the previous reporting period; however, consistent with the overall annual average for this location; • SO_4 (36 mg/L) is much lower than previous reporting periods; • Both Pb and Zinc show a downward trend with the previous reporting period, 0.007 mg/L and 0.44 mg/L respectively; • TOC (4200 mg/L) is slightly higher than historical monitoring results. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
Effluent from LTP	The effluent from the Leachate Treatment Plant is located at the ultrafiltration membrane shed at the Leachate treatment Plant. Water quality is tested on the agreed 7 day assessment and provided to the EPA on a monthly basis as part of the Commissioning process. Based on the results provided in **Table 8.1** (refer **Appendix 4**), the water quality at this location can be described as: • pH (average 7.8) consistent with throughout reporting period and meets proposed Targets; • EC (average 16334 µS/cm) remains stable, consistent with throughout the reporting period; • NH_3 (average 9.63 mg/L) is well below proposed targets; • BOD (2.79 mg/L) is well below proposed targets; No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.

3.1.5 Bioreactor Groundwater Monitoring Results

Groundwater quality monitoring at 22 locations was undertaken in this reporting period as required by the EPL, comprising 1 annual and 3 quarterly rounds of monitoring for 19 of the 22 locations. The results of this are summarised in **Table 3.1.5** below.

The groundwater monitoring well network allows for an assessment of potential impacts from the waste operations at the Bioreactor, evaporation dams and tailing dams.

The key quality indicators selected to detect any pollutants in groundwater samples are the same as those deemed characteristic for leachate and are as follows:

- pH,
- Sulphate (SO_4),
- Lead (Pb),
- Zinc (Zn),
- Ammonia ($NH_{3)}$, and
- Total Organic Carbon (TOC).

These are depicted in the trend graphs **(Figures 1.5.5.1 to 1.5.5.21)** provided in **Appendix 5**.

Table 3.1.5 **Bioreactor Groundwater Monitoring Results**

Parameter	Results/Discussion
MB1	MB1 is located down gradient of the landfill void. Based on the results provided in **Table 9.1** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 13.6 m) was higher than previous reporting periods due to recent rainfall events; • pH (average 7.1) neutral – to slightly alkaline consistent with previous reporting period; • SO_4 (average 300 mg/L) is generally consistent with previous periods; • Pb and Zn (0.001 mg/L and less than 0.31 mg/L respectively) are generally lower with previous periods; • NH_3 (average 0.06) is consistent with previous reporting periods; • TOC (2 mg/L) is higher than the previous reporting period and historical trends. The concentration is indicative of natural conditions. Veolia will continue to monitor this parameter in the future with the intention of ensuring water quality at this location is preserved. All trends at this location indicate fairly stable concentration and there is no indication of contamination from mining or Bioreactor activities. No significant variations or anomalies were recorded for any analyte tested during this monitoring period.

MB2	MB2 is located upstream of Evaporation Dam 2. Based on the results provided in **Table 9.2** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 1.59m) was consistent with long term average since 2004; • pH (average 6.5) neutral, consistent with previous reporting period; • SO_4 (average 3725 mg/L) are generally consistent with previous periods; • Pb (less than 0.001 mg/L) indicates a stable trend consistent with the previous reporting period; • Zn (0.068 mg/L) is generally consistent with previous reporting periods; • NH_3 (0.1 mg/L) is consistent with previous monitoring periods of non detection rates; • TOC (2 mg/L) shows a slight increase with previous reporting periods. All trends indicate fairly stable concentration and there is no indication of contamination from mining or Bioreactor activities. No significant variations or anomalies were recorded for any analyte tested during this monitoring period.
MB3	MB3 is located upstream of the Bioreactor and mine site. Based on the results provided in **Table 9.3** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 0.1 m) was consistent with long term average since 2004; • pH (average 6.7) near neutral is consistent with previous reporting period; • SO_4 (average 37 mg/L) is stable; • Pb (less than 0.001 mg/L) and Zn (0.016 mg/L) are less than previous periods; • NH_3 (0.1 mg/L) is consistent with previous monitoring periods of non detection rates; • TOC (1 mg/L) result is consistent with historical results. The concentration is indicative of natural conditions. Veolia will continue monitoring this parameter in the future with the intention of ensuring water quality at this location is preserved. The site is considered to be a near surface groundwater table with the potential to form natural springs but is influenced by longer term rainfall patterns. All trends indicate fairly stable concentration and provide an indication of background groundwater concentrations.
MB4	MB4 is located to the east of the landfill void and downstream of the Bioreactor. Based on the results provided in **Table 9.4** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 9.25 m) was consistent with long term average since 2004; • pH (average 5.3) slightly acidic, consistent with previous reporting period; • SO_4 (average 315 mg/L) follows a similar stable trend to previous reporting periods; • Pb (0.013 mg/L) remains stable while Zn (19 mg/L) is seen to fluctuate which appears consistent with historical cyclic trends; • NH_3 (0.1 mg/L) is consistent with previous monitoring periods of non detection rates;

	• TOC (2 mg/L) result is consistent with historical results. The concentration is indicative of natural conditions. Veolia will continue monitoring this parameter in the future with the intention of ensuring water quality at this location is preserved. There has been periodic fluctuations in pH in MB4 over many years. The recent trend is for the pH to be slightly acidic. Apart from higher than average rainfall there is no other geotechnical explanation for the fluctuations. Other metals and water quality parameters are consistent with historical trends.
MB6	MB6 is located to the west of the landfill void and downstream of Evaporation Dam 3 and upstream of the Bioreactor and has been dry since October 2021. Due to the tendency of MB6 now to be dry, the long term reliability of this bore for monitoring is uncertain. Nevertheless, it will continue to be monitored and samples obtained when possible.
MB7	MB7 is located upstream of Evaporation Dam 3. Based on the results provided in **Table 9.6** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 1.63 m) was consistent with long term average since 2004; • pH (average 7) neutral is consistent with the previous reporting period; • SO_4 (average 200 mg/L) follows a similar stable trend to previous reporting periods; • Pb (less than 0.001 mg/L) is consistent throughout the reporting period whilst Zn (0.13 mg/L) shows a slightly fluctuating trend consistent with historical cycles; • NH_3 (0.03 mg/L) is consistent with previous monitoring periods of non detection rates; • TOC (5 mg/L) is fairly consistent with the previous reporting period. The concentration is indicative of natural conditions. Veolia will continue monitoring this parameter in the future with the intention of ensuring water quality at this location is preserved. The sulphate levels of between 150 mg/L and 300 mg/L within the metamorphic strata of MB7 are considered low. Sulphate levels have dropped during the reporting period which could be an indication that rainwater is infiltrating the strata and diluting the sulphate concentration.
MB10	MB10 is located adjacent to Evaporation Dam 1. Based on the results provided in **Table 9.7** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 1.55 m) was consistent with previous monitoring periods; • pH (average 6.8) neutral is consistent with previous reporting periods; • SO_4 (average 3775 mg/L) is generally consistent with previous periods; • Pb (less than 0.001 mg/L) is stable while Zn (0.043 mg/L) and is generally consistent with previous reporting periods; • NH_3 (0.11 mg/L) is consistent with previous monitoring periods of non detection rates;

	• TOC (2 mg/L) appears lower than the previous reporting period. The concentration is indicative of natural conditions. Veolia will continue monitoring this parameter in the future to ensure water quality at this location is preserved. All trends indicate fairly stable concentrations and there is no indication of contamination from mining or Bioreactor activities.
ED3B	ED3B is located downstream of Evaporation Dam 3. Based on the results provided in **Table 9.8** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 2.56 m) was consistent with previous monitoring periods; • pH (average 6.7) is neutral – slightly alkaline and consistent with previous reporting period; • SO_4 (average 1600 mg/L) follow similar trends consistent with previous periods; • Pb (less than 0.001 mg/L) remains stable while Zn (0.12 mg/L) is lower than previous monitoring periods; • NH_3 (0.07 mg/L) is at non detection rates; • TOC (6 mg/L) slightly higher than the previous reporting period. All trends indicate fairly stable concentrations at this location with no evidence of contamination from mining or Bioreactor activities.
WM1	WM1 is located northeast of the landfill void. Based on the results provided in **Table 9.9** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 22.1 m RL) is consistent with previous monitoring periods; • pH (average 6.4) neutral – to slightly alkaline consistent with previous reporting period; • SO_4 (average 622 mg/L) demonstrates a downward trend; • Both Pb (0.006 mg/L) and Zn (3.1 mg/L) remain consistent with previous reporting periods; • NH_3 (average 0.1 mg/L) is close to, or within, non-detection rates; • TOC (3 mg/L) is consistent with previous monitoring period reflective of natural conditions; All trends indicate fairly stable concentrations at this location with no evidence of contamination from mining or Bioreactor activities.
WM5	WM5 is located to the west of the void near Evaporation Dam 3 South. Based on the results provided in **Table 9.10** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 0.48 m) is consistent with long term averages; • pH (average 6.9) neutral is consistent with the previous period; • SO_4 (average 190 mg/L) is higher than previous monitoring periods; • Pb (average less than 0.001 mg/L) and Zn (0.013 mg/L) can be seen to be fluctuating which appears consistent with historical cyclic trends; • NH_3 (average 0.24 mg/L) is close to non-detection rates;

	• TOC (7 mg/L) is less than previous monitoring periods reflecting natural conditions. No significant variations or anomalies were recorded for any analyte tested in this location during this monitoring period from the data available.
WM6	WM6 is located to the west of the void adjacent to Evaporation Dam 3 North. Based on the results provided in **Table 9.11** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 3 m) is consistent with the previous reporting period; • pH (average 5) is slightly acidic, but stable and consistent with previous reporting period; • SO_4 (average 610 mg/L) shows an increasing trend; • Pb (0.004 mg/L) and Zn (0.240 mg/L) are both less than the previous reporting period and generally consistent with historical fluctuations; • NH_3 (average 0.07 mg/L) is close to, or within, non-detection rates; • TOC (4 mg/L) is consistent with previous monitoring periods reflecting natural conditions. All trends are relatively consistent and there is no indication of contamination from mining or Bioreactor activities.
MW8S	MW8S is located on the northern side of ED3N. Based on the results provided in **Table 9.12** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 3m) is consistent with previous reporting periods; • SO_4 (average 2975 mg/L) shows a decreasing trend but is generally consistent with previous periods; • NH_3 (average 0.09 mg/L) is close to, or within, non-detection rates; • Pb (0.18 mg/L) and Zn (180 mg/L) are less than the previous reporting period and generally consistent with historical fluctuations. All trends indicate fairly stable concentrations with no evidence of contamination from mining or Bioreactor activities.
MW8D	MW8D is located adjacent to MW8S. Based on the results provided in **Table 9.13** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 5m) was consistent with long term average since 2004; • pH (average 4.8) shows a downward trend with previous reporting periods; • SO_4 (average 4325 mg/L) is consistent with previous periods; • Pb (0.69 mg/L) and Zn 250 mg/L) are both higher than with previous periods; • NH_3 (3.4 mg/L) is at non detection rates; • TOC (8 mg/L) is consistent with previous monitoring periods reflecting natural conditions. All trends indicate fairly stable concentrations with no evidence of contamination from mining or Bioreactor activities.

MW9S	MW9S is located on the northwest side of ED3N within the footprint of ED1. This bore was determined to be inaccessible during the reporting period due to the high volume of water in ED1.
MW10S	MW10S is located on the northeast side of ED3. Although this bore has been consistently dry since the well was commissioned in 2007, 2 of the 4 quarterly monitoring events were undertaken in accordance with the EPL during the reporting period. Based on the results provided in **Table 9.14** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 9 m) higher than the long term average since 2004; • pH (average 4.5) consistency with that of neighbouring groundwater monitoring bores, MW8S and MW8D; • SO_4 (average 2100 mg/L) was generally consistent in this reporting period; • Pb (0.69 mg/L) and Zn 240 mg/L) were both generally consistent in this reporting period; • NH_3 (1.1 mg/L) is at non detection rates; • TOC (14 mg/L) reflecting natural conditions.
MB28	MB28 is located downstream of ED1. Based on the results provided in **Table 9.16** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 6.07m) was consistent throughout this reporting period; • pH (average 6.9) is neutral; • SO_4 (average 853 mg/L) is consistent; • Pb (less than 0.001 mg/L) and Zn (0.82 mg/L) were both generally consistent in this reporting period; • NH_3 (0.056 mg/L) is at non detection rates; • TOC (4 mg/L) reflecting natural conditions is consistent throughout this reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
MB33	MB33 is a 75m deep groundwater monitoring bore to replace a waste covered well (WM4) in the Void. A bailer was used to retrieve the groundwater samples from this bore during the reporting period due to pump limitations resulting from the >35m below ground level (BGL) depth of the standing water level (SWL). Based on the results provided in **Table 9.17** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 42.36 m) was consistent throughout this reporting period; • pH (average 8.15) showing a downward trend from previous reporting periods; • SO_4 (average 590 mg/L) is consistent with previous periods; • Pb (less than 0.001 mg/L) and Zn (0.97 mg/L) were both generally consistent in this reporting period;

	• NH_3 (0.3 mg/L) is close to, or within, non-detection rates; • TOC (2 mg/L) reflecting natural conditions is consistent throughout this reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
MB34	MB34 is a deep groundwater monitoring bore installed as part of a groundwater monitoring network review in the vicinity of the landfill void. A bailer was used to retrieve the groundwater samples from this bore during the reporting period due to pump limitations resulting from the >35m below ground level (BGL) depth of the standing water level (SWL). Based on the results provided in **Table 9.21** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 51.16 m) was consistent throughout this reporting period; • pH (average 6.5) showing consistent alkalinity; • SO_4 (average 265 mg/L) is consistent with previous periods; • Pb (less than 0.001 mg/L) and Zn (2.2 mg/L) both generally consistent in this reporting period; • NH_3 (0.13 mg/L) is close to, or within, non-detection rates; • TOC (6 mg/L) reflecting natural conditions is consistent throughout this reporting period. Whilst baseline concentrations are still being established since the installation on MB34 in 2021, no significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
MB35	MB35 is a deep groundwater monitoring bore installed as part of a groundwater monitoring network review in the vicinity of the landfill void. A bailer was used to retrieve the groundwater samples from this bore during the reporting period due to pump limitations resulting from the >35m below ground level (BGL) depth of the standing water level (SWL). Based on the results provided in **Table 9.22** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 39.7m) was consistent throughout this reporting period; • pH (average 6.3) showing consistent alkalinity; • SO_4 (average 2850 mg/L) is significantly less that previous periods; • Pb (less than 0.001 mg/L) and Zn (31 mg/L) both less than previous reporting periods; • NH_3 (4.5 mg/L) is close to non-detection rates; trend will continue to be monitored for increases in the next sampling round. • TOC (22 mg/L) reflecting natural conditions is consistent throughout this reporting period.

	Whilst baseline concentrations are still being established since the installation on MB35 in 2021, no significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
SP2-MW1	SP2-MW1 is located adjacent to Spring 2. This shallow bore was installed as part of the ED1 and ED2 seepage management scheme. Based on the results provided in **Table 9.18** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 778.4m) is a slight increase during this reporting period; • pH (average 6.9) being neutral, was consistent throughout the reporting period; • EC (average 2302 µS/cm) remains stable, consistent with for fresh to brackish water; • SO_4 (average 136 mg/L) is consistent with the previous reporting period; • Pb (average 0.0115 mg/L) and Zn (average 0.309 mg/L) were both generally consistent in this reporting period; • TDS (2008 mg/L) reflecting natural conditions is consistent throughout this reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
MW-FRC1	MW-FRC1 is located adjacent to the farm road culvert. This shallow bore was installed as part of the ED1 and ED2 seepage management scheme. Based on the results provided in **Table 9.19** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 1.5m) was consistent throughout this reporting period; • pH (average 6.7) consistent throughout this reporting period; • EC (average 1570 µS/cm) remains stable, throughout the reporting period; • SO_4 (average 257 mg/L) is consistent with the previous reporting period; • Pb (average 0.173 mg/L) and Zn (average 0.340 mg/L) were both generally consistent and reflected low to non-detectable; • TDS (2200 mg/L) reflecting natural conditions is consistent throughout this reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.
MB10S	MB10S is located adjacent to MB10 at the toe end of ED1. This shallow bore was installed as part of the ED1 and ED2 seepage management scheme. Based on the results provided in **Table 9.20** (refer **Appendix 4**), the groundwater quality at this location can be described as: • SWL (average 1m) was consistent throughout this reporting period; • pH (average 7) consistent throughout this reporting period; • EC (average 4370 µS/cm) remains stable for fresh to brackish water; • SO_4 (average 707 mg/L) is less than previous reporting periods; • Pb (average 0.003 mg/L) and Zn (average 0.06 mg/L) were both generally consistent and reflected low to non-detectable;

	• TDS (3300 mg/L) reflecting natural conditions is consistent throughout this reporting period. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.

3.1.6 Bioreactor Piezometers Level Monitoring Results

Measurements for groundwater standing water levels (SWL) in the vicinity of the Bioreactor were undertaken at 6 out of 6 piezometers around the landfill void in accordance with the EPL and have been documented in the Annual Return.

The primary purpose is to monitor the groundwater hydraulics in the Void. Each location consists of a shallow (reference A) and deep (reference B) piezometer.

The findings of the monitoring are summarised in **Table 3.1.6** below and detailed quarterly levels are provided in **Tables 10.1 – 10.5** (refer **Appendix 5**).

Table 3.1.6 **Bioreactor Piezometers Level Monitoring Results**

Parameter	Results/Discussion
P38A & P38B	P38 is located east of the void. Standing water levels are presented in **Table 10.1** (refer **Appendix 4**). Only 2 of the 4 quarterly monitoring events were undertaken during the reporting period due to the inability to access the Void berm (bench) due to wet and unstable conditions. • SWL in P38A (shallow aquifer) indicated a stable standing water level ranging from 31.24m to 35.12m during this reporting period. • SWL in P38B (deep) ranged from 59.81m to 55.21m in this reporting period, consistent with previous reporting periods.
P200A & P200B	P200 is located east of the void. Standing water levels are presented in **Table 10.2** (refer **Appendix 4**). • SWL in P200A (shallow) showed a range of 21m to 22.97m and is stable. • SWL in P200B (deep) showed a range of 21.3m to 26.3m and is stable.
P58A & P58B	P58 is located west of the void. Standing water levels are presented in **Table 10.3** (refer **Appendix 4**). • SWL in P58A (shallow) showed a range of 42m to 42.9m and is stable. • SWL in P58B (deep) is similar to the previous reporting period, fluctuating between 47.2m and 57m.
P59A & P59B	P59 is located west of the void and to the south of P58. Standing water levels are presented in **Table 10.4** (refer **Appendix 4**). • SWL in P59A (shallow) ranged from 14.02m to 16.5m in this reporting period, consistent with previous reporting period. • SWL in P59B (deep) ranged between 16.56m and 17.45m consistent with previous reporting period.

P100A & P100B	P100 is located northeast of the void. Standing water levels are presented in **Table 10.5** (refer **Appendix 4**). • SWL in P100A (shallow) ranged from 38m to 40.8m in this reporting period, consistent with previous reporting period. • P100B (deep) averaged between 52.69m and 54.74m.

3.1.7 Bioreactor Evaporation Dam Volume Monitoring Results

The Evaporation Dam 3 (ED3) system comprises extracted (and treated) leachate from the landfill void and captured stormwater. Water levels are surveyed monthly as detailed in **Table 3.1.7**, which shows the dam levels and required freeboard requirements. Additional monitoring is conducted for other dams managed by Veolia.

The site has been negatively impacted by numerous years of La Nina, causing most dams to reach freeboard in previous reporting periods (2020-21 and 2021-22), which continued into the reporting period. It is noted that continuing wet weather periods and lower than predicted rates of evaporation has resulted in storage levels in dams exceeding predictions.

Table 3.1.7 **Bioreactor Evaporation Dam Volume Monitoring Results (RLs AHD)**

Month	ED3 SOUTH		ED3 NORTH				ED1	
Date	ED3S	ED3S-S	ED3N-1	ED3N-2	ED3N-3	ED3N-4	Coffer Dam #1	Coffer Dam #2
28/09/2022	791.42	793.91	791.54	791.35	791.64	791.91	790.03	791.42
27/10/2022	791.76	793.96	791.68	791.78	791.76	792.01	789.92	791.76
28/11/2022	791.90	793.95	792.07	792.07	792.07	791.87	789.79	791.90
19/12/2022	791.80	793.86	791.96	791.96	791.96	791.77	789.77	791.80
25/01/2023	791.79	793.79	791.77	791.43	791.66	791.88	789.67	791.79
27/02/2023	791.71	793.68	791.66	791.18	791.59	791.95	789.57	791.71
24/03/2023	791.51	793.45	791.53	791.01	791.60	791.91	789.46	791.51
01/05/2023	791.84	793.56	791.60	791.00	791.74	792.13	789.54	791.84
31/05/2023	791.8	793.68	791.81	791.86	791.79	792.02	789.5	791.8
30/06/2023	791.77	793.69	792.06	792.05	792.06	791.90	789.49	791.77
27/07/2023	791.73	793.60	792.02	792.02	792.02	791.90	789.48	791.73
31/08/2023	790.68	793.46	791.93	791.93	791.93	791.94	789.44	790.68
Minimum	790.68	793.45	791.53	791.00	791.59	791.77	789.44	787.47
Mean	791.64	793.72	791.80	791.64	791.82	791.93	789.64	787.91
Maximum	791.9	793.96	792.07	792.07	792.07	792.13	790.03	788.35

Max Freeboard	**791.55**	**793.5**	**791.25**	**791.25**	**791.24**	**791.45**	**789.97**	**789.9**

A second coffer dam has been constructed and commissioned in the north-west corner of the ED1 with a capacity of 50,680 m3 at 0.5m freeboard. Veolia is currently in the process of seeking approval for an additional dam. On 28 February 2023, Veolia submitted to the DPE short to medium, and long term leachate and water management strategies developed by Engeny for rectifying and improving the sites overall water management, in accordance with the Development Control Order issued to Veolia by the DPE on 1 April 2022. Veolia is in the process of implementing these strategies.

3.1.8 Bioreactor Extraction of Water

Table 3.1.8 below provides the volume of the water extracted from the Willeroo Borefield of which an annual allocation of 600ML is available. Water Access Licence (Veolia Environmental Services (Australia) Pty Ltd) 28983 Lachlan Fold Belt Mdb Groundwater Source.

Table 3.1.8 **Willeroo Bore Field Extraction Volume**

Month	Usage Volume (kL)
September 2022	4051
October 2022	3002
November 2022	8944
December 2022	2856
January 2023	9595
February 2023	9206
March 2023	14029
April 2023	16179
May 2023	10499
June 2023	14514
July 2023	12450
August 2023	12916
TOTAL	**139,728.9 kL**

The neighboring mine site, now run and owned by Develop, also sources raw water from the Willeroo borefield as a primary source of water whilst in operations, utilising the allowance of a WAL owned by Veolia. Approximately 73624.71 kL of raw water was consumed by Develop during the reporting period.

3.1.9 Bioreactor Noise Monitoring

Operational activities at the Bioreactor are restricted to within the approved operating hours described in **Table 3.1.9** as per Conditions of Bioreactor PA.

Table 3.1.9 **Bioreactor & IMF Approved Hours of Operation**

Activity	Day	Hours
Operations	Monday - Saturday	6:00am - 10:00pm
	Sunday & Public Holiday	Nil

As a result of industrial action between Pacific National and Rail, Tram & Bus Union (RTBU) operational activities were required to be conducted on Sunday 27 November, 4 December and 11 December 2022. This was approved in writing by the EPA on 26 November 2022. No noise complaints were received during this reporting period indicating that noise at the Bioreactor was likely maintained within the 35 dB(A) LAeq (15 minute) criteria at the nearest residential receiver. Noise monitoring will be undertaken by Veolia on the receipt of any such complaints.

3.1.10 Bioreactor Waste Volume Monitoring

The Bioreactor PA stipulates that the expanded operations must not exceed the maximum annual input rates in Schedule 3, Condition 5 of MP10_0012, which are outlined in **Table 3.1.10.1**.

Table 3.1.10.1 **Maximum annual input rates for Woodlawn Bioreactor as per Schedule 3, Condition 5 of MP10_0012**

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Putrescible regional waste received by road
900,000 tpa	100,000 tpa	50,000 tpa

Schedule 3, Condition 6 of MP10_0012 specifies that Veolia can receive more than 50,000 tpa of regional waste by road at the Bioreactor, up to a maximum of 130,000 tpa, if it receives the approval from the Director-General to do so.

On 26 April 2018, Veolia received approval from the DPE to increase the amount of regional waste delivered by road to the Bioreactor from 50,000 tpa to 90,000 tpa, pursuant to Schedule 3, Condition 6.

On 4 July 2019, Veolia received approval from the DPE to increase the amount of regional waste delivered by road to the Bioreactor from 90,000 tpa to 125,000 tpa, pursuant to Schedule 3, Condition 6, subject to further consultation with Goulburn Mulwaree Council to determine if a climbing lane is required for Tarago Road.

In May 2022, the Goulburn Mulwaree Council (GMC) provided interim approval to increase waste tonnage to 125,000 tpa. As a condition of this interim approval, the following points must be met:

- Transport up to 15,000t of waste from the north (through Tarago) and up to 110,000t of waste from the south (Canberra);
- Survey the Tarago road between the Crisps Creek IMF and Collector Road;
- Develop a detailed concept plan for a potential climbing lane;
- Determine costing for the construction of a climbing lane;
- Seek assessment and feedback by Veolia senior management; and
- Meet with the Council to discuss the outcome.

Veolia has subsequently sent a letter to the GMC on 5 July 2023 detailing progress made to date on the road design for the climbing lane, as well as forming a Working Party with Council to extend the interim approval until 31 December 2023. An extension of the interim approval until 31 December was received by Veolia on 10 August 2023.

Accordingly, the maximum annual input rates for the Bioreactor during the reporting period are outlined in **Table 3.1.10.2**.

***Table 3.1.10.2* Maximum annual input rates for Woodlawn Bioreactor current for the reporting period**

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Regional waste received by road
900,000 tpa	100,000 tpa	125,000 tpa

All waste received is recorded in the Systems, Applications and Products in Data Processing (SAP) software including details such as vehicle registration, the date and time of delivery, the gross and tare weight of the vehicle, as well as the nature and origin of the waste delivered by each contractor.

The data provided by SAP is used to track and monitor the amount of incoming waste in accordance with the limits of the Bioreactor PA.

Table 3.1.10.2 indicates that the Woodlawn Bioreactor has remained within the annual waste limit stipulated within the Bioreactor PA of 1.13Mtpa during the reporting period.

***Table 3.1.10.3* Incoming waste tonnage via rail from Sydney and regional waste by road at the Woodlawn Bioreactor during 2022-23 reporting period**

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Regional waste received by road (All waste types)
682,243.218 tpa	47,964.160 tpa	124,288.680 tpa

The forecasted tonnage (tpa) for the following reporting period is outlined in **Table 3.1.10.3**.

Table 3.1.10.4 **Forecast waste tonnages for the 2023-24 reporting period**

Putrescible waste received by rail from Sydney	Received as residual waste from Woodlawn AWT	Putrescible regional waste received by road
900,000 tpa	100,000 tpa	90,000 tpa

Part 4 Crisps Creek Intermodal Facility

4.1 Crisps Creek IMF Monitoring Results

4.1.1 IMF Surface Water Monitoring Results

Upstream and downstream monitoring is undertaken at nearby surface water bodies to identify any degradation of water quality caused by landfilling operations.

Surface water quality monitoring at 3 monitoring locations was undertaken as required by the EPL, the findings of which are summarised in **Table 4.1.1**. Detailed quality results are provided in **Tables 12.1** to **12.3** (refer **Appendix 5**). The key quality indicators selected to identify any contamination in the receiving surface waters from site operations include:

- pH,
- Electrical Conductivity (EC),
- Sulphate (SO_4),
- Zinc (Zn),
- Ammonia ($NH_{3)}$, and
- Total Organic Carbon (TOC).

These are depicted in trend graphs **(Figures 2.4.1.1 to 2.4.1.3)** provided in **Appendix 5**.

Table 4.1.1 **IMF Surface Water Monitoring Results**

Parameter	Results/Discussion
Site 110 Upstream	Site 110 is located upstream of the IMF in Crisps Creek. It is approximately 8 km downstream of the Bioreactor. Four out of four quarterly monitoring requirements were fulfilled this reporting period. Results provided in **Table 11.1** (refer **Appendix 4**) indicate the following trends:

	• pH is close to neutral (average 7.5), consistent with previous reporting periods; • EC (average 1430 µS/cm) is higher that the previous reporting period, however consistent with the historical data and representative of fresh water salinity; • SO_4 (average 210 mg/L) shows a upward trend from previous reporting periods; • Fe and Zn, average 1.78 mg/L and 0.306 mg/L are generally consistent with the previous periods but reflective of fluctuating cycles. • NH_3 an average of (0.11 mg/L) is also is consistent with previous reporting period; • TOC (average 12.3 mg/L) which is lower than previous reporting periods. While the indicator trends for this location indicate some variability over time, this is not uncommon when sampling intermittent streams. Veolia will continue to endeavour to obtain samples when flow occurs during a rainfall event for low flow surface water points.
Site 150 – Mulwaree River	Site 150 is located 2 km downstream of the IMF on the Mulwaree River, which is also downstream of a railway bridge and Braidwood Road. Four out of four quarterly monitoring requirements were fulfilled this reporting period. Results provided in **Table 11.2** (refer **Appendix 4**) indicate the following trends: • pH (average 7.8) is consistent with the previous reporting period; • EC (average 1088 µS/cm) is higher that the previous reporting period, however consistent with the historical data and representative of fresh water salinity; • SO_4 (average 121.8 mg/L) reflecting EC trend, is generally consistent with previous reporting periods; • Fe and Zn, average 0.6 mg/L and 0.1 mg/L are generally consistent with the previous period but reflective of fluctuating cycles. • NH_3 an average of (0.1 mg/L) is also is consistent with previous reporting period; • TOC (average 11 mg/L) which is consistent with previous reporting periods. These results are consistent with the trends for Site 110.
First Flush Stormwater Outlet	The IMF First Flush is located at the surface water outlet point of the site, prior to runoff into Crisps Creek. Results provided in **Table 11.3** (refer **Appendix 4**) indicate the following trends: • pH (average 7.7) is close to neutral, consistent with the previous reporting period; • EC (average 129 µS/cm) shows a downward trend but is generally consistent with the previous period and representative of fresh water salinity; • SO_4 (average 11 mg/L) is consistent with previous reporting periods; • Fe and Zn, average 0.6 mg/L and 0.09 mg/L are generally consistent with the previous period but reflective of fluctuating cycles. • NH_3 an average of (0.04 mg/L) is also is consistent with previous reporting period;

	• TOC (average 22 mg/L) which is consistent with previous reporting periods. No significant variations or anomalies were recorded for any analyte tested at this location during this monitoring period.

4.1.2 IMF Dust Monitoring Results

The handling of waste and associated operational activities at the IMF are undertaken in a manner to ensure minimal emissions of dust. This includes no opening of containerised waste on unloading, and operating on a hardstand which aids in the mitigation of dust emissions due to the sealed surface.

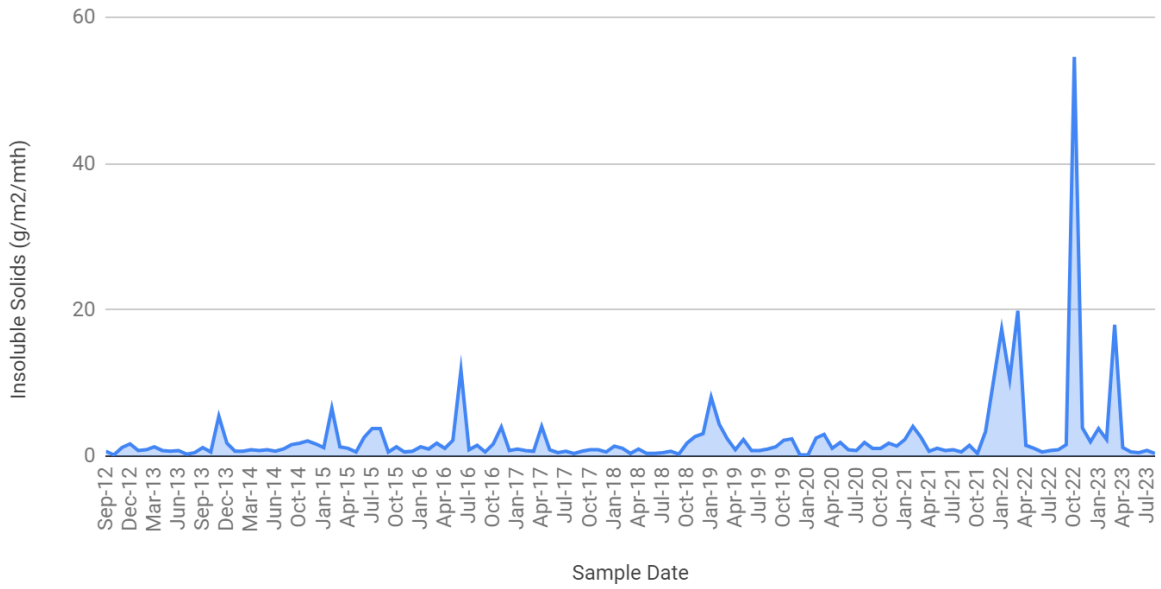
Dust monitoring is undertaken monthly at 1 location at the IMF in accordance with the EPL. A summary of this reporting period is provided in **Table 4.1.2** and detailed in **Table 13.1** (refer **Appendix 5**).

Table 4.1.2 **Dust Monitoring Results**

Summary Total Insoluble Solids (g/m²/month)		
Minimum	**Average**	**Maximum**
0.4	7.5	54.6

The results at DG18 indicated a maximum level of total insoluble solid matter of 54.6 g/m²/month in October 2022, as seen in the subsequent graph in **Figure 4.1.2**. It is believed that the elevated level is due to an agricultural burn off in the vicinity.

Figure 4.1.2 **Crisps Creek IMF Depositional Dust Levels**



4.1.3 IMF Waste Volume Monitoring

Schedule 3, Condition 8 stipulates that the facility must not exceed the annual throughout rate outlined to **Table 4.1.3** below.

Table 4.1.3 **Maximum annual input rates for Crisps Creek IMF**

Received by Rail from Sydney	Received by rail from Sydney for processing at the Woodlawn MBT
900,000 tpa	280,000 tpa

Veolia uses data provided by PWS to track and monitor the amount of incoming waste transported by rail from Sydney to the IMF for processing at the Bioreactor and the MBT.

Table 4.1.3A shows that inputs received by rail from Sydney have remained within the annual waste limit stipulated within the Bioreactor PA during the reporting period.

Table 4.1.3A **Incoming waste tonnage received by rail at the Crisps Creek (IMF) during 2022-23 reporting period**

Received by Rail from Sydney for processing at the Woodlawn Bioreactor	Received by rail from Sydney for processing at the Woodlawn MBT
682,243.218 tpa	101,316.784 tpa

Part 5 Woodlawn MBT Facility

5.1 MBT Monitoring Results

5.1.1 MBT Surface Water Monitoring Results

Quarterly surface water monitoring is carried out to monitor any potential surface water impacts of the project on the surrounding area. Baseline data for surface water has been obtained from historical water quality monitoring undertaken for monitoring location Site 115 - Allianoyonyiga Creek.

For results of the surface water monitoring point Site 115, refer to **Section 3.1.3** and **Table 6.1** (refer **Appendix 5**).

5.1.1.1 Discharge Monitoring Results

Surface water discharge monitoring is conducted at the MBT facility to determine whether surface water flowing off site could be contaminated as a result of operational activities. The results of discharge monitoring are assessed against discharge limits stipulated within the MBT PA and EPL 20476, which are described in **Table 5.1.1**.

***Table 5.1.1* Discharge Parameters and Performance Measures**

Parameter	Performance Measure	Standards	Statutory Requirements
pH	6.5-8.5	Approved Methods for the Sampling and Analysis of Water Pollutants in NSW	EPL Condition L2.4
Total Suspended Solids (TSS)	50 mg/L		

Condition 19 of the MBT PA states the stormwater retention pond must capture and store all stormwater runoff generated at the premises during a 24-hour duration 1-in-100-year Average Recurrence Interval (ARI) rainfall event. Following the commencement of operations the facility must ensure it maintains a closed water management system, which ensures no discharge to the downstream environment.

The discharge point was sampled on seven occasions in accordance with the EPL, and following heavy rainfall events during the reporting period. **Table 5.1.1A** below.

***Table 5.1.1A* MBT Discharge Point Monitoring Results**

Parameter	Results/Discussion
Site 140	Site 140 is located near the north western boundary of the facility collecting surface water runoff from the western and northern side of the MBT maturation pad. The

	pollutant concentration trends are generally consistent with previous sampling opportunities. • pH (7.8) is consistent with the previous period average (7.95), indicating slightly alkaline water; and • TSS (141 mg/L) is higher than previous results, a concentration reflecting slightly turbid water. Due to the extent of heavy rainfall experienced at the Premises, the discharge point was diligently monitored following every rainfall event. Veolia will continue monitoring this location in the next reporting period for any runoff impacts.

5.1.2 MBT Groundwater Water Monitoring Results

Four quarterly groundwater quality monitoring at WMBT Point 11 (MB32) was undertaken in this reporting period as required by the EPL. Results are summarised in **Table 5.1.2** below and depicted in **Figure 5.1.2.1** (refer **Appendix 5**).

The key quality indicators selected are the same as listed in **Section 3.1.5** to detect any pollutants in groundwater samples are the same as those deemed characteristic for leachate.

In addition to water quality monitoring, standing water levels (SWL) of the wells are also measured in metres relative to sea level (m RL).

Table 5.1.2 **MBT Groundwater Monitoring Results**

Parameter	Results/Discussion
MB32	MB32 is located down gradient of the MBT leachate aeration dam. Based on the results provided in **Table 15.1** (refer to **Appendix 5**), the groundwater quality at this location can be described as: • SWL (average 2.6m) is consistent with the previous reporting period; • pH (average 6.52) is consistent with the previous reporting period; • EC (average 11719 µS/cm) is lower than previous reporting period readings (average 11945 µS/cm); • SO_4 (average 447 mg/L) is consistent throughout this reporting period and lower then previous period (537 mg/L); • Pb and Zn (average <0.02 mg/L and 0.037 mg/L respectively) are generally consistent with the previous period; and • NH_3 (average 0.138 mg/L) is slightly higher than the previous reporting period; • TOC (5 mg/L) is consistent with previous reporting periods (6.75 mg/L) with a slight decrease in concentration. All trends at this location indicate consistent concentration and there is no indication of contamination from leachate or MBT activities. No significant variations or anomalies were recorded for any analyte tested during this monitoring period.

5.1.3 MBT Leachate Monitoring Results

Leachate quality monitoring is undertaken half-yearly at the MBT leachate aeration dam as detailed in the OEMP. The findings from this reporting period are summarised in **Table 5.1.3** below with the detailed data provided in **Table 15** (refer to **Appendix 5**). The trends are also depicted in **Figure 5.1.3.1** (refer **Appendix 5**).

In addition to chemical testing, the level of the water in the leachate aeration dam is also monitored on a weekly basis and after every rainfall event to ensure the freeboard is not exceeded as per Condition O5.3 of the EPL.

Table 5.1.3 **MBT Leachate Monitoring Results**

Parameter	Results/Discussion
MBT Leachate Aeration Dam	The leachate aeration dam is located at the northern side of the MBT facility where leachate collected from the facility is treated by aeration to oxidise organic compounds in leachate. Based on the results provided in **Table 16.1** (refer to **Appendix 5**), the characteristics of the leachate are: • pH average (7.83) is lower than the previous reporting period result; • EC average (10,354 µS/cm) significantly lower than the overall average (21,050 µS/cm); • SO_4 average (2 mg/L) is significantly lower than the overall overage (396 mg/L). • Pb average decreased from 0.046 mg/L (overall average to 0.132 mg/L), Zn also decreased from 9.9 mg/L (overall average) to 0.966 mg/L from the previous reporting period; • NH_3 average (350 mg/L) is lower compared to previous overall average (566 mg/L); and • TOC average (3355 mg/L) is lower compared to previous overall average (3553 mg/L). Affected by weather conditions during this reporting period, a decrease in overall concentrations was observed during the reporting period due to the significant rainfall experienced at the start of the period. A new aeration system was installed during the reporting period, which has decreased biological parameters such as Total Organic Carbon significantly.

5.1.4 MBT Air Quality Monitoring Results

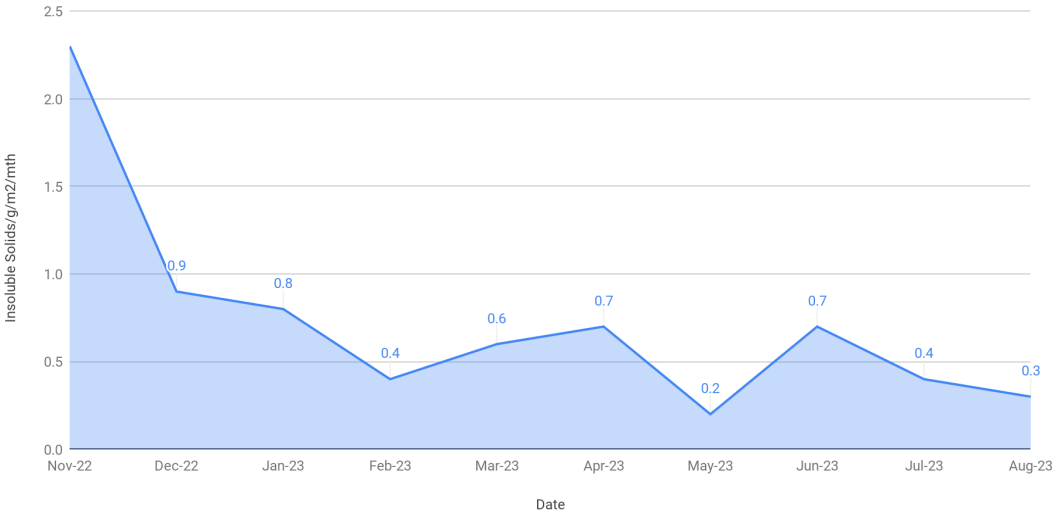
5.1.4.1 MBT Dust Monitoring

Dust monitoring is undertaken monthly at the MBT facility in accordance with the MBT PA and EPL. A summary of this reporting period is provided in **Table 5.1.4.1** below and detailed in **Table 5** and **Table 15** (refer to **Appendix 5**).

***Table 5.1.4.1* MBT Air Quality Monitoring Results**

Parameter	Results/Discussion
Particulates/ Dust Monitoring	Monitoring of 3 depositional dust gauges (DG) was completed on a monthly basis as required under the MBT PA and EPL, the results of which are generally consistent with previously reporting periods. MBT shares 2 depositional dust gauges with the Bioreactor, which include Pylara (DG28) and West Void (DG 34), which are summarised in **Section 3.1.2**. In addition, there is a dust gauge (DG 33) close to the MBT facility. A summary of this reporting period at the dust gauge is provided in **Table 5.1.4.1** and detailed in **Table 5** and **Table 17.1**(refer to **Appendix 5**). *Table 5.1.4.1: Dust Monitoring Results* **Dust Gauge** / **Summary Total Insoluble Solids (g/m²/month)** **Minimum** / **Maximum** / **Average** DG 33 (Point 7) / 0.2 / 3.8 / 1.05 The average level of total insoluble solid matter is generally consistent with long term historical trends. The maximum dust level recorded during the reporting period was 3.8 g/m²/month in September 2022, showing a significant decrease from the maximum concentration of 6.8 g/m²/month reported in the 2019-20 reporting period resulting from the bushfire and dust storm events occurring between November 2019 and January 2020.

***Figure 5.1.4* MBT Depositional Dust Levels – DG33**



5.1.4.2 MBT Odour Monitoring

The air quality impact assessment (AIA) prepared by SLR, predicted that MBT Facility operations would comply with relevant air quality goals and are not expected to generate offensive or nuisance odours at nearby sensitive receivers.

The adopted odour criterion of 6 OU was predicted to be achieved at all receptors with the exception of the TriAusMin (now Heron) administration building, which was predicted to experience a 99th percentile odour concentration of 8.5 OU.

Table 5.1.4.2 **Odour Emission Performance Criteria**

Parameter	Measure	Standards	Statutory Requirement
Odour Emissions	6 OU	German Standard VDI 3940 'Determination of Odorants in Ambient Air by Field Inspections'	OEMP

This concentration was predicted to be dominated by the existing source of the Bioreactor, rather than the operation of the MBT Facility, which was predicted to result in a 99th percentile concentration of 1.7 OU when modelled alone.

The management of odour emissions from each of the proposed processing stages is maintained by the use of biofilter pollution control mechanisms which use living material to biologically degrade and filter pollutants which may cause odours. These pollutants are absorbed into the biofilter material whereby it is broken down by microorganisms. No odour complaints were received for the MBT Facility in this reporting period.

5.1.5 MBT Noise Monitoring Results

The performance of the facility in managing potential noise emissions was assessed on the receipt of any noise complaints. No noise complaints were received in this reporting period.

Operational activities at the MBT are restricted within the approved operating hours described in **Table 5.1.5** as per Schedule 3, Condition 27 of the MBT PA, as well as all processing confined to enclosed areas.

Table 5.1.5 **Agreed Hours of Construction & Operation**

Activity	Day	Hours
Operation Hours	Monday - Saturday	6:00am – 10:00pm
Emergency Hours	Monday - Sunday	Anytime

Note: Operation of BRS Drums and associated infrastructure is permitted over 24 hours.

Noise limits are stipulated in the MBT PA to ensure the site does not generate nuisance noise emissions as a result of operational activities.

5.1.5.1 Operational Noise

Ambient noise measurements were conducted at the two locations as identified as the nearest residences on privately owned land, as specified in Condition 25 of the MBT PA.

The results of the operator-attended measurements confirm the noise impact assessment criteria (Refer to **Table 5.1.5.1**) is complied with at the nearest residences on privately-owned land, with LAeq (15minute) noise levels recorded below 35 dBA at both locations. The operator-attended measurements also recorded levels higher than LAeq (15minute) 35 dBA, and in these instances the ambient noise environment was due to natural sounds such as birds, insects and frogs.

***Table 5.1.5.1* Noise Impact Assessment Criteria dB(A)**

Parameter	Performance Measure	Standards	Statutory Requirement
Residences on privately owned land (during construction)	Laeq (15min) = 40dB	NSW Industrial Noise Policy (EPA)	Schedule 3, Condition 25
Residences on privately owned land (during operations)	Laeq (15min) = 35 dB		
Traffic Noise on privately owned land	Laeq (1 hour) = 60dB	Environmental Criteria for Road Traffic Noise (DECC)	Schedule 3, Condition 26

5.1.5.2 Traffic Noise

Traffic noise levels were calculated at the nearest residence to the road between the IMFand the MBT, for comparison with the Traffic Noise Impact Assessment Criteria specified in the PA. The results of the operator-attended measurements and calculation confirm the PA06_0239 noise criteria is complied with at the nearest residence on privately-owned land.

5.1.6 MBT Waste Volume Monitoring

5.1.6.1 Waste Acceptance and Screening

Waste is screened at the Clyde Transfer Terminal and Banksmeadow Transfer Terminal sites before the loading of waste into containers for the transportation to the MBT Facility. If any waste is detected that is not acceptable through the screening process, it is rejected and cannot be loaded into the containers.

Once received at the facility, the operator of the grapple crane inspects the waste as it is discharged from the vehicle to check for non-conforming waste. In the event that any easily extractable, bulk recyclable waste is detected, it is separated from the general waste stream and set aside for removal from the facility to another facility licensed to receive this type of waste for processing or recycling. This includes waste

types identified as less desirable to processing operations. No records of non-conforming waste were recorded during this reporting period.

5.1.6.2 Waste Volume Monitoring

Schedule 3, Condition 2 of the MBT PA stipulates that the facility must not receive or process more than 240,000 tpa of mixed waste and 40,000 tpa of garden waste. Under the facility operations (Stage 1), the operational targets are 184,000 tpa, which includes 144,000 tpa of mixed waste and 40,000 tpa of garden waste in accordance with the EPL. The WRVCP details the Waste Monitoring Program used to monitor and record incoming waste at the facility.

The MBT PA stipulates that the waste received on site from the Crisps Creek IMF must not exceed the maximum annual input rates in **Table 5.1.6.2**.

***Table 5.1.6.2* Maximum annual input rates for Woodlawn MBT Facility**

Mixed Waste received by rail from Sydney	Garden Waste received by rail from Sydney
240,000 tpa	40,000 tpa

Veolia utilises the data provided by the onsite Paperless Weighbridge System (PWS) to track and monitor the amount of incoming waste transported by rail to Crisps Creek Intermodal Facility and transferred to the MBT Facility.

Table 5.1.6.2A shows that the MBT has remained within the annual waste limit stipulated within the MBT PA during the reporting period, and Veolia will continue to monitor incoming waste tonnages at the facility for the following operational year.

***Table 5.1.6.2A* Total incoming waste tonnages during the 2022-23 reporting period at MBT**

Mixed Waste received by rail from Sydney	Garden Waste received by rail from Sydney
89,457.78 tpa	11,859.01 tpa

The forecasted tonnage (tpa) for the following reporting period is outlined in **Table 5.1.6.2B** below.

***Table 5.1.6.2B* MBT Forecast mixed waste tonnages for the 2023-24 reporting period**

Source	Waste Type	Total TPA
Sydney	Mixed Waste	144,000
	Garden Waste (FO/GO)	40,000
TOTAL		**184,000**

Part 6 Environmental Performance

6.1 Independent Audit Findings

In consultation with both the EPA and DPE, the Independent Audits below were conducted during the reporting period. Any identified non-conformances and proposed corrective actions were reported to the DPE during the reporting period.

6.1.1 Leachate and Water Management System (LWMS) Audit

In accordance with Schedule 4, Condition 18R of MP10_0012, the annual Independent Leachate and Water Management System (LWMS) Audit was undertaken at the Bioreactor during this reporting period.

A number of recommendations were developed as a result and discussed in **Table 6.1.1.** More detail on Veolia's specific implementation actions and corresponding implementation timelines were submitted to the DPE during the reporting period.

Table 6.1.1 **2023 Independent LWMS Audit Recommendations**

Item	Observation	Proposed Action	Status
1.	A liner tear in ED1 Coffer Dam 1 occurred on 10th May 2022 prompted Veolia to implement an unapproved emergency syphon of treated leachate to the unlined section of ED1. As a result, the storage level in ED1 has increased by 582 ML while the storage in ED1 Coffer Dam 1 was reduced to ensure the leachate level remained below the liner tear which occurred near the top of the liner.	Continuing wet weather periods and lower than predicted rates of evaporation has resulted in storage levels in dams exceeding predictions. As a priority, Veolia will explore weather-independent methods for evaporating leachate from storage dams and continue to lower the level of leachate in ED1 Coffer Dam 1 to the target level (which is approximately 80% capacity) so that repairs can be made to the liner.	On-track
2.	Actual mechanical evaporation losses from each dam are substantially less than predicted in the 2017 water balance model due in part to overestimation of mechanical evaporation in combination with continuing unfavorable climatic conditions during the audit period 16 March 2022 to 15 March 2023.	Veolia installed and commissioned 14 new mechanical aeration units across the storages during the audit period and has completed construction of ED1 Coffer Dam 2. This will provide much needed additional storage. As mentioned above, Veolia is also investigating weather-independent methods of evaporating leachate from storage dams.	Complete

3.	Actual rainfall was substantially higher and evaporation was substantially lower than the wettest year predictions in the 2017 water balance model, due to continuing unfavourable climatic conditions during the audit period 16 March 2022 to 15 March 2023.	A revised water balance model has been developed by a third party engineering services provider approved for the task by the Department of Environment and Planning, taking into consideration worst case scenarios rainfall and evaporatory conditions based on recent weather events, and together with the leachate and water management strategy (Which the same third party has also developed) have been submitted to the Department seeking to implement the required changes to the site's overall water management system.	Complete
4.	Actual inputs into the treated leachate dams have been substantially more than predicted in the 2017 water balance model due to excessive wet conditions during the audit period 16 March 2022 to 15 March 2023..	In addition to the above mentioned actions, Veolia will seek to amend the Consent to include revised and practical target dates for emptying of ED3N lagoons and replacing their liners based on an updated water balance model.	On-track, strategies being assessed by DPE
5.	Effluent quality is considered to generally meet target effluent quality. However, on two occasions during the audit period ammonia exceeded its target. On both occasions levels were compliant the next day. It is possible these are sampling errors. Despite the two days on which ammonia did not comply the LTP is consistently exceeding its water quality objectives.	The LTP performance surpassed its minimum water quality objectives on average during the audit period however if the lab detects an Ammonia exceedance in future, Veolia will immediately request a resample or retest to confirm the exceedance.	Complete
6.	The average annual LTP throughput during the Audit period was 4.2 L/sec, which exceeded the target throughput. However, the LTP throughput rate was found to be less than 4 L/sec for 81 days during the Audit period. The LTP experienced sudden drops in temperature which resulted in the loss of heat exchange capacity as the outgoing effluent does not have enough heat to exchange to warm the influent.	The average annual LTP throughput during the Audit period was 4.2 L/sec, which exceeded the target throughput. Veolia will carefully monitor the LTP this coming winter to monitor for, and control, thermal shocks (which the third membrane installation is expected to overcome). To suitably manage the risk of recurrence, a plan will be developed by the LTP and engineering team to prevent thermal shock and drops in treatable flow rates.	Complete

	Leachate treatment rates in the LTP, which are to be 4 L/sec, had some minor drops below 4 L/sec in April, with a greater number of drops in May and then a consistent nonconformance in June until the start of August.		
7.	The system is not achieving its objectives. The volume of water stored within the unlined ED3N dams has grown significantly instead of being drawn down. At the same time ED1 Coffer Dam is also nearly full. This will substantially delay the installation of any new liners with ED3N dams. Dams are being operated above the 80% freeboard limit set. In addition, the tear in the liner of ED1 Coffer Dam 1 means that ED1 Coffer Dam 1 must have its operational headroom reduced to a level below the tear which is about 80% of its storage capacity.	ED1 Coffer Dam 1 will be repaired as a priority by Veolia. This is partly contingent on being able to transfer into the newly constructed Coffer Dam #2 which will commence as soon as final approval of the drawings and associated plans is granted. Planning for additional storage dams has also commenced in accordance with the updated water balance model, delivered by a third party engineering services provider approved for the task by the Department of Environment and Planning.	On-track
8.	This condition requires ED3N to be emptied of effluent from the existing leachate system by 31 December 2022. This was not achieved and is therefore not compliant.	Three consecutive years of La Nina weather patterns has prevented Veolia from achieving this objective. Veolia will seek to modify the Consent to include revised and practical target dates for emptying of ED3N lagoons and replace their liners based on the aforementioned updated water balance model.	On-track
9.	This condition requires the separation of all classes of water. Acid mine drainage (AMD) water has now been mixed with leachate in ED1.	As treated leachate storage levels are reduced and additional capacity is achieved, mixing of treated leachate and AMD in ED1 will cease. Corrective measures for the management of this, including the monitoring of any impact of this activity on groundwater, have been included in the revised long-term Leachate and water management strategy for the site which has been developed and delivered by a third party engineering services provider approved	Complete

		for the task by the Department of Environment and Planning.	
10.	The revised water balance has not been completed within the Audit period, though the Auditors understand that additional time was required to appoint a specialist to conduct this work that was acceptable to the Department of Planning and Environment.	Veolia will finalise the revised water balance and further implement alternative strategies for improving water and leachate management within six months.	Complete

6.1.2 Independent Odour Audit

In accordance with the requirements of Condition 7 of Schedule 4 of MP 10_0012, Veolia is required to carry out an annual independent odour audit. This was the tenth Independent Odour Audit (IOA) commissioned by Veolia since the Woodlawn Waste Expansion project approval was granted and encompasses the Bioreactor, the IMF and the MBT.

A number of recommendations were developed as a result and discussed in **Table 6.1.2** below. More detail on Veolia's specific implementation actions and corresponding implementation timelines were submitted to the DPE during the reporting period.

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Table 6.1.2 **2023 Independent Odour Audit Recommendations**

Item	Observation/Recommendation	Proposed Action	Status
1.	An ambient landfill gas composition analysis should be completed to identify the gas analytes present, with a focus on characterising those compounds known to be odorous.	Undertake ambient gas sampling within the Tarago community and analyse the data to determine presence of odorous compounds likely to fugitive emissions landfill activities.	Sampling event completed. Data interpretation to be completed by December 2023.
2.	Data obtained as part of the H2S Monitoring Program to be interpreted and contextualized taking into account, wind speed, wind direction, location of complaints, gas capture rates, leachate extraction rates. Considerations to be	Veolia has recently installed two monitoring stations within the Tarago community. Veolia currently contextualizes H2S monitoring data utlising wind speed, wind direction, location of complaints, gas capture rates, and leachate extraction rates within	Complete

	made regarding other potential sources of H2S which may impact on monitoring	odour R4 reports to the EPA. Veolia to implement the contextualisation parameters into the complaints spreadsheet upload to the website.	
3.	Audit reported elevated odour emission rates within the LTD, ED3N-2 and ED3N-4.	Veolia to investigate the cause of any increase in odour emissions including any variation in pond treatment and storage conditions and continue to adequately maintain, manage and monitor the LMS to ensure it is operating in an optimum state meeting the leachate quality monitoring targets outlines in the *Leachate Treatment Operation Manual* and recommended by Veolia.	March 2024 (Prior to next IOA)
4.	Continue to pursue and progressively materialise the performance goals outlined within the WIP 2020 and AQGGMP	• Optimise the leachate extraction from the Bioreactor to meet the design treatment and capability of the existing infrastructure. • Continuation of the existing stormwater diversion program at the Woodlawn Facility. • During high rainfall events develop acceptable limits for which contaminated but highly diluted stormwater can be rapidly diverted to stormwater storage. • Continue to optimise and maximise as far as reasonably practicable the volume reduction protocols for ED3N, ED3S, and ED1 Coffer Dam.	Ongoing
5.	Continue enhancing and accelerating improvement to landfill gas capture from the Bioreactor	Continue implementation of the gas capture plan within WIP 2020 and AQGGMP, including; • Planning and documentation of landfill gas infrastructure, leachate and gas drainage and tipping operations. • The monitoring and optimisation of the landfill gas wells to maximise landfill gas capture. • The augmentation of additional pipework and booster/flare/engine	Ongoing

		to the current capacity at the Woodlawn Facility. • Planned infrastructure installments within each waste lift. • The continuous improvement leachate extraction, treatment performance, capacity, and efficiency. • The continuous improvement in the waste tipping profile, covering and expansion and optimisation of the landfill gas infrastructure. • The continuous monitoring of leachate and gas extraction. • Continuous awareness of condensate management. • The implementation of operational management programs including leachate management, pumps and pumping solutions, the expansion of wells in the void. • The application of biocover material to manage fugitive landfill gas emissions.	
6.	Development of a strategy and engineering design that focuses on reducing leachate generation by diverting and extracting stormwater.	Development of a leachate management strategy to include: • High flow extraction of stormwater/slightly impacted stormwater. • Flexible leachate extraction rates and maximising extractions during summer months for evaporation dams.	Ongoing
7.	Minimise odour generation resulting from water exposed to the ATF	Develop strategies for minimising the exposed ATF surface.	Ongoing
8.	Refine investigations of odour issues in the community	Continue community engagement as an element of the odour management framework.	Ongoing

6.2 Community Engagement

6.2.1 Complaints

Veolia operates a 24-hr telephone complaints line that enables the receipt of complaints from members of the public, as required under the Bioreactor and MBT PAs and EPLs. Other complaints that were received off site during this reporting period were logged by the EPA.

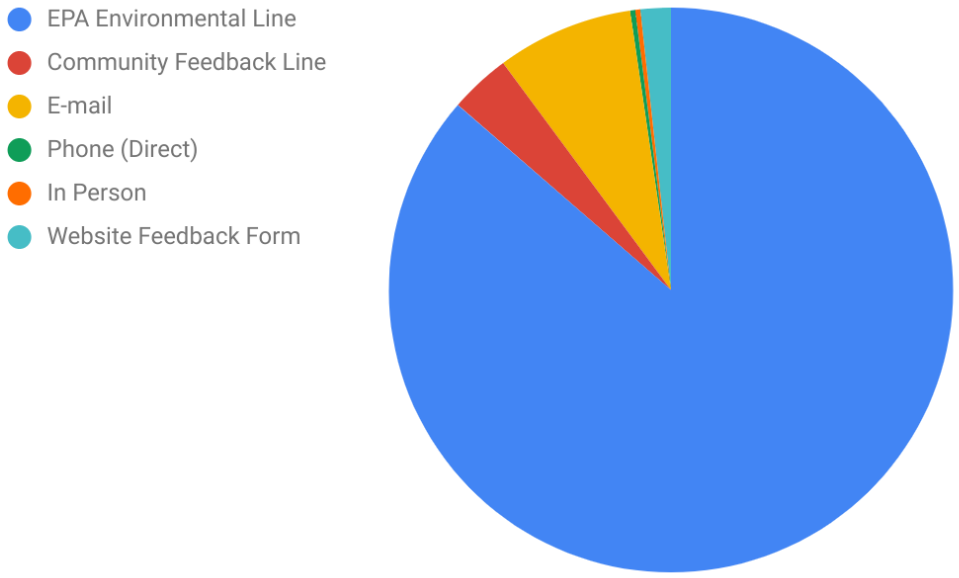
In order to proactively engage in effective odour management, Veolia participates in regular community liaisons to encourage and gather feedback from the local residents regarding the odour performance at the Bioreactor.

In accordance with Condition 1 and 2 of Schedule 7 (PA 10_0012), a Community Liaison Committee (CLC) operates for the Woodlawn Project consisting of an Independent Chair, representatives from Goulburn Mulwaree and Queanbeyan Palerang Regional Council, a TADPAI representative, and five community members. The CLC aims to meet up to four times per year.

Veolia recorded a total of 339 complaints relating to odour during the reporting period, showing a small increase with the previous reporting year (292). Complaints received in the reporting period are detailed in **Table 6.1** (refer **Appendix 6**).

The majority of odour complaints were reported using the EPA Environmental Line as demonstrated in the graph below (**Figure 6.2.2)** below**.**

Figure 6.2.2 **Woodlawn Eco-Precinct Odour Complaint Locations**



Gas capture was improved significantly during this reporting period with hourly extraction rates at some of their highest levels ever. However the impacts of persistent heavy rainfall events have contributed to ongoing reports of odour from the premises.

6.2.2 Odour Management

Odour emissions are minimised through a combination of daily covering waste practices, effective biofiltration media, and a robust landfill gas collection and extraction system. There is a constant planning and implementation process to continue to increase gas extraction. During the placement of waste, the configuration of the landfill gas collection system and the design of the waste lift ensure consistent gas and leachate extraction.

Leachate management and gas extraction systems at Veolia continue to be improved, with a focus on reducing emissions. Operational actions implemented during the reporting period included:

- Leachate extraction from the waste was maintained at an average of 4.5L/s;
- Continued installation of subsurface gas extraction drainage lines;
- Daily checks of void gas extraction infrastructure are conducted to identify any faults and immediate repairs requirements to ensure maximum suction and gas capture;
- Monthly surface landfill gas monitoring, and trigger based corrective actions;
- Work schedules and operational planning based on monthly landfill gas monitoring;
- Ongoing compaction and maintenance around wells; and
- Maintaining and adding biofiltration materials as needed.

Significant efforts have also been made in order to foster community relations and improve odour investigation processes, including:

- Exploring more effective methods of community consultation and engagement;
- Progression on the installation of off–site meteorological station/H_2S monitoring;
- Online odour complaint form to improve the complaint handling process;
- Online feedback form to invite open communications with the Veolia CLC;
- Consultation with qualified experts in relation odour impacts by way of Annual Independent Odour Audits;
- Investigating the use of “real-time” weather forecasting technology; and
- Investigating surface extraction methods for addressing thermal inversion impacts.

Veolia's efforts to develop and implement the above-mentioned engineered controls, which include continuous improvement in gas capture, are progressing well as the rain has subsided.

6.3 Rehabilitation

6.3.1 Woodlawn Mine

Rehabilitation of the mine void through landfilling is a continuous process. Final rehabilitation works shall be completed in accordance with the Rehabilitation and Closure Plan.

The areas to be rehabilitated include but is not limited to:

- The Bioreactor
- Former Mineral Processing Area - Plant Area

- Evaporation Dam 3
- Evaporation Dam 1
- Power Station
- Office and car park areas
- Crisps Creek IMF and Mulwaree River
- MBT Facility

Veolia has undertaken vegetation monitoring and tree planting programs at the Eco-Precinct site and continues to seek out ways to continuously improve and rehabilitate the overall natural amenity of the site.

6.3.2 Woodlawn Tailings Dams

Develop operate the Woodlawn Zinc-Copper Project within Special (Crown and Private Lands) Lease 120, issued pursuant to the NSW Mining Act 1992. Several conditions exist under their Lease to prevent, minimise and/or offset adverse environmental impacts, and to ensure that areas disturbed by mineral production and exploration activities are appropriately rehabilitated.

Developed under the approval conditions, Develop's Mining Operations Plan (MOP) includes a Rehabilitation Strategy which describes the proposed rehabilitation strategy for the four tailings dams on site.

In May 2020, the Environment Protection Authority (EPA) through a NSW Resource Recovery Exemption, permitted the application of the Woodlawn organic outputs (WOO) (MBT organic output derived from mixed waste) to land for trials for the rehabilitation of acid mine tailings in the tailings dams of the Woodlawn Zinc-Copper Project Mine site. The trial began in February 2021 and is ongoing.

Veolia will consult with EPA on the final rehabilitation plans and plant species to be adopted within the rehabilitation areas, once a suitable rehabilitation design is selected and additional detail is developed.

Part 7 Conclusion

7.1 Environmental Performance Improvements

A number of improvements to the environmental management of the Woodlawn Eco-Precinct have been implemented during this reporting period. These improvements were identified as a result of the recommendations and findings identified by independent environmental audits, regulatory inspections, as well as Veolia's internal assurance program.

7.1.1 Improvements Implemented

Table 7.1.1 outlines the improvements identified in the 2020-21 AEMR and implemented in the reporting year for the Bioreactor, IMF and MBT.

***Table 7.1.1* 2022-23 Improvements Implemented**

Item	Improvement	Proposed Action	Status
1	Investigate ways of upgrading the SCADA system to allow for improved management of the infrastructure, therefore maintaining capture efficiency of generated LFG.	Veolia to investigate technological options to update the system to provide real time information about the landfill operation, including LFG capture, electrical systems and liquid movement.	Veolia investigated technological options to update the system to provide real time information about the landfill operation, including LFG capture, electrical systems and liquid movement. LFG capture currently reports to a SCADA system, and leachate levels in the void have been remotely collected in a trial that supports the feasibility of telemetry in the bioreactor.
2	Execute all requirements of the Development Control Order (DCO) within expected timeframes and deadlines.	Provide short, medium, and long-term water and leachate management strategies for the Premises in line with deadlines, and implement strategies as soon as practicably possible.	Strategies required to be submitted as per the DCO were submitted by timeframes approved by the EPA and DPE.
3	Actively seek to reduce the volume stored in all leachate dams.	Develop technology to enable the reduction of stored liquid volumes on site. Including thermal evaporation, reverse osmosis treatment and irrigation options.	Thermal evaporation and reverse osmosis and irrigation options have been explored and are in development.
4	Update mechanical evaporation systems to improve efficiency.	Investigate ways to improve utilisation of mechanical evaporators by increasing capacity and improving portability, operating parameters and positioning to optimise evaporation while	Mechanical evaporation system efficiency increased with additional units installed, a capital project to purchase a large number of units was also approved and is underway.

		maintaining containment of liquid and managing drift.	
5	Due to ongoing sampling frequency non-compliances caused by dry, and insufficiently recharged bores, the groundwater monitoring network should be reviewed.	Engage a suitably qualified expert to undertake an adequacy review and assessment of the groundwater monitoring network.	The review was undertaken assessing the suitability of the network against the landfill guidelines and the report was submitted to the EPA for review prior to implementing recommendations.

7.1.2 Improvements Proposed

Veolia is committed to continuous improvement. As a result of the previous 2 years of well above average rainfall, the improvements are largely focused on stormwater and leachate management which also impact gas capture.

Table 7.1.2 outlines the improvements proposed for the 2023-24 reporting year for the Woodlawn Bioreactor, Crisp Creek IMF and Woodlawn MBT facility.

***Table 7.1.2* 2023-24 Improvement Recommendations**

Item	Improvement	Proposed Action
1.	Implement outstanding short, medium, and long-term water and leachate management strategies for the Premises as soon as practicably possible and in line with deadlines.	Lodge applications for long term water management strategies following regulatory and community feedback, continue with dam level monitoring project to further improve calibrations of the water balance
2.	Actively seek to reduce the volume stored in all leachate dams.	Complete planning requirements related to the implementation of the Reverse Osmosis, Thermal Treatment and Irrigation.
3.	Improve complaints recording and publishing procedure.	Develop and implement new complaints reporting and publishing template in consultant with the CLC
4.	Seek to further increase capture of odorous gas emissions	Develop and implement alternative strategies to monitor the odorous gas emissions from the site and review any data for learnings on reducing odor emissions
5.	Improve the performance of waste shipping containers and improve the transport of containers transiting from the IMF to the WBR	Implement the recommended actions from the the independent third party Waste Container Maintenance Procedure Report

7.2 Non-Compliances

Tables 7.2.1 and 7.2.2 outline the PA non-compliances identified during the 2022-23 reporting year for the Bioreactor, IMF and MBT.

Table 7.2.1 **Woodlawn Bioreactor Non-Compliances and Crisps Creek IMF Non-Compliances (MP10_0012 and DA 31-02-99)**

Condition	Non-compliance	Proposed Action / Action undertaken
3.14 of MP10_0012	Veolia received a Penalty Infringement Notice (PIN) from the EPA on 4 May 2023 for a non-compliance with Condition O2 of the EPL as a result of a tear identified in a small section of the HDPE liner of ED1 Coffer Dam 1, which Veolia notified the EPA of on 27 September 2022. As condition 14 of Schedule 3 of MP10_0012 is of similar wording to Condition O2 of the EPL, this is being notified out of an abundance of caution. A Prevention Notice was also issued by the EPA to Veolia on 24 October 2022 with respect to this matter, requiring Veolia to undertake additional monitoring of groundwaters relative to the Coffer Dam, and engage a suitably qualified and experienced person approved by the EPA to undertake an assessment of the management of Coffer Dam 1. To date, Veolia has complied with the requirements of the Prevention Notice.	Veolia will implement all of the recommendations made by the third party consultant resulting from their assessment of Coffer Dam 1 in accordance with the Prevention Notice. Additionally, all inspections, testing and maintenance of plant and equipment is scheduled in the SAP Plant Maintenance Management System and conducted in accordance with Australian Standards and the manufacturer's instructions.
4.11 of MP10_0012	Exceedance of monthly depositional dust monthly monitoring criteria	Veolia will continue to implement existing dust suppression controls throughout the Eco-Precinct to ensure operational activities mitigate the emission of dust
4.17 4.18 4.18P of MP10_0012	Following non-normative weather patterns, significant rainfall received at the site, and consecutive La Nina years, Coffer Dam 1 within ED1 reached 80% capacity prior to	Continue to implement the short to medium and long term water management measures submitted by Veolia to the EPA and the DPE on 28 February 2023.

& 70R of DA 31-02-99	condition 18P(a) or condition 18P(b) being met. This was carried over from previous reporting period.	These are being undertaken with regular and ongoing consultation with the EPA. Veolia submitted an updated Leachate Management Plan to the DPE on 05 January 2022 to take into account the significant level of rainfall received at the Premises in recent years. This was approved on 11 May 2023.
4.17 4.18 of MP10_0012	Following non-normative weather patterns, significant rainfall received at the site, and consecutive La Nina years, 0.5m freeboard was reached at ED1, ED1 Coffer Dam, ED3S, ED3N-2, ED3N-4 and ED3S-S. Stormwater was diverted from ED3S to ED1.	Continue to implement the short to medium and long term water management measures submitted by Veolia to the EPA and the DPE on 28 February 2023. These are being undertaken with regular and ongoing consultation with the EPA. Veolia submitted an updated Leachate Management Plan to the DPE on 05 January 2022 to take into account the significant level of rainfall received at the Premises in recent years. This was approved on 11 May 2023. As at the date of this AEMR, ED1 and ED1 Coffer Dam are below freeboard.
4.18J 4.18Q 4.17 4.18 of MP10_0012 Condition 70L and 70S of DA 31-02-99	Treated leachate from the Leachate Treatment Plan (LTP) diverted from Coffer Dam 1 into the outer section of ED1 as an emergency contingency measure to ensure the Premises remains a zero discharge site. Veolia received a Penalty Infringement Notice (PIN) from the EPA on 4 May 2023 with respect to this.	Continue to implement the short to medium and long term water management measures submitted by Veolia to the EPA and the DPE on 28 February 2023. These are being undertaken with regular and ongoing consultation with the EPA. Transfers of treated leachate from the LTP to ED1 ceased on 30 June 2023 when Coffer Dam #2 was commissioned.
4.18T of MP10_0012	As a result of non-normative weather patterns, significant rainfall received at the site, and consecutive La Nina years, ED3N was unable to be emptied of effluent by 31 December 2022.	An application for a modification has been submitted to the DPE to extend this date, based on water balance models and the leachate and water management strategies submitted to the EPA and DPE on 28 February 2023.

5.4 of MP10_0012	Veolia received a Prevention Notice from the EPA on 9 May 2023 with respect to Condition O5.2 of the EPL, and two Penalty Infringement Notices (PIN) from the EPA on 7 August 2023 for a non-compliance with Condition O1.1 of the EPL, as a result of allegations that waste containers traveling between the IMF and the Bioreactor were observed to have leaks.	Pursuant to the Prevention Notice, Veolia engaged a third party consultant (endorsed by the EPA) to develop a program of container water proof testing, which has now been implemented.
5.8 of MP10_0012	On 28 November 2022, the EPA issued Veolia with a Penalty Infringement Notice (PIN) in relation to offensive odour, following an odour survey conducted by EPA officers on 17 June 2022. Whilst the odour survey was conducted outside of the reporting period, this is being reported out of an abundance of caution, as the PIN was received in this reporting period.	A number of actions have been taken including: • Increased evaporation units to reduce leachate levels; • Additional meteorological and H2S monitoring stations within Tarago to determine potential odour pathways; • Increased gas collection. Further actions are planned, including improvements in: • the biofiltration media; • the design and configuration of the gas collection and extraction system, which will increased the ability of the system to extract gas. Veolia will implement all recommendations from the annual Independent Odour Audits, related Prevention Notices, and Pollution Reduction Programs.

Table 7.2.2 **MBT Facility Non-Compliances (MP 06_0239)**

Condition	Non-compliance	Proposed Action / Action undertaken
2.2 of MP 06_0239	Transport of leachate offsite via road between 1 November 2022 and 30 June 2023 and via rail between 20 October 2022 and 27 March 2023. Veolia received a Penalty Notice from DPE on 20 September 2023 with respect to this.	<u>Immediate actions taken by Veolia</u> • Minimising the generation of leachate from the waste process, through optimisation of water usage and processing of waste; • Installation of additional evaporation units to the existing leachate storage dams to increase evaporation capacity;

		• Engaged SLR Consulting Pty Ltd to model leachate generation and update the Water Balance Model. <u>Medium and long term measures</u> • Construction of additional leachate storage dams within the footprint of the Premise for receival of leachate • Scoping report submitted to DPE on 31 May 2023 with proposed modification to the Consent. • MBT Water Balance Model update. • Installation of additional mechanical evaporators within the existing leachate pond
2.23 of MP 06_0239	Exceedance of monthly depositional dust monthly monitoring criteria.	Veolia will continue to implement existing dust suppression controls at the MBT and overall Eco-Precinct to ensure operational activities mitigated the emission of dust.
3.7 of MP 06_0239	The 0.5 m freeboard in the leachate pond was reached.	Veolia has implemented improvements to measure leachate dam levels, including installation of level sensor and remote monitoring system using SCADA, and will continue to maintain this system using Veolia's Asset Management System (VAMS). The Soil Water Leachate Management Plan (SWLMP) is in the process of being reviewed and updated and, once finalised, will be submitted to DPE for approval.
3.14 of MP 06_0239	Discharge from point 8 on 30 April 2023 exceeded the limits set in the EPL for TSS	Application of a soil stabiliser on unsealed areas surrounding the stormwater dam
3.16 of MP 06_0239	Leachate was transferred from the MBT Leachate Aeration Pond to the Bioreactor's Leachate Treatment Dam on 13 July 2023, rather than to the Reception Building pit, to manage leachate levels at the	The SWLMP is in the process of being reviewed and updated, in consultation with relevant stakeholders, to remove the contingency of pumping liquid to the Reception Building pit. The updated SWLMP

	MBT site following an extremely high rainfall events. It was identified that, given the already "wet" waste being received from our transfer facilities in Sydney, pumping additional liquid from the Pond into the Reception Building pit would have caused significant operational issues downstream of the Site's treatment processes, including spills on the conveyors and other processing buildings, as well as affecting the quality of the organic outputs, potential hazardous exposure to our workers, and likely result in increase in odour. Veolia received an Official Caution from DPE on 22 September 2023 for this incident.	will be submitted to DPE for approval, once finalised.

Reference and Related Documents

Document Name
URS Australia Pty Ltd, Veolia Environmental Services Environment Assessment: Woodlawn Expansion Project Volume 1 – Main Report, August 2010
URS Australia Pty Ltd, Veolia Environmental Services Environment Assessment: Woodlawn Expansion Project Volume 2 – Appendices, August 2010
EPA, Waste Classification Guidelines Part 1: Classifying Waste, November 2014;
EPA, Environmental Guidelines: Solid Waste Landfills Second Edition, 2016, April 2016
Veolia, WL - Bioreactor Landfill Environmental Management Plan (LEMP), 30 August 2018
Veolia, WL - Bioreactor infrastructure Plan (WIP) 2020, 13 October 2020

Veolia, WL - MBT Operational Environmental Management Plan (OEMP), 19 January 2017
Veolia, WL - Crisps Creek IMF Environmental Management Plan (EMP), 2 September 2016
Veolia, WL - Bioreactor Receipt of Non-Conforming Waste Work Instruction, 28 August 2019
Ramboll Australia Pty Ltd, Independent Environmental Audit, May 2022
The Odour Unit Pty Ltd, Woodlawn Bioreactor Expansion Project Independent Odour Audit #11 recommendations, October 2023
Jackson Environment Pty Ltd, Independent Audit Leachate and Water Management System, July 2023

Appendices

Appendix 1 Site Location Map

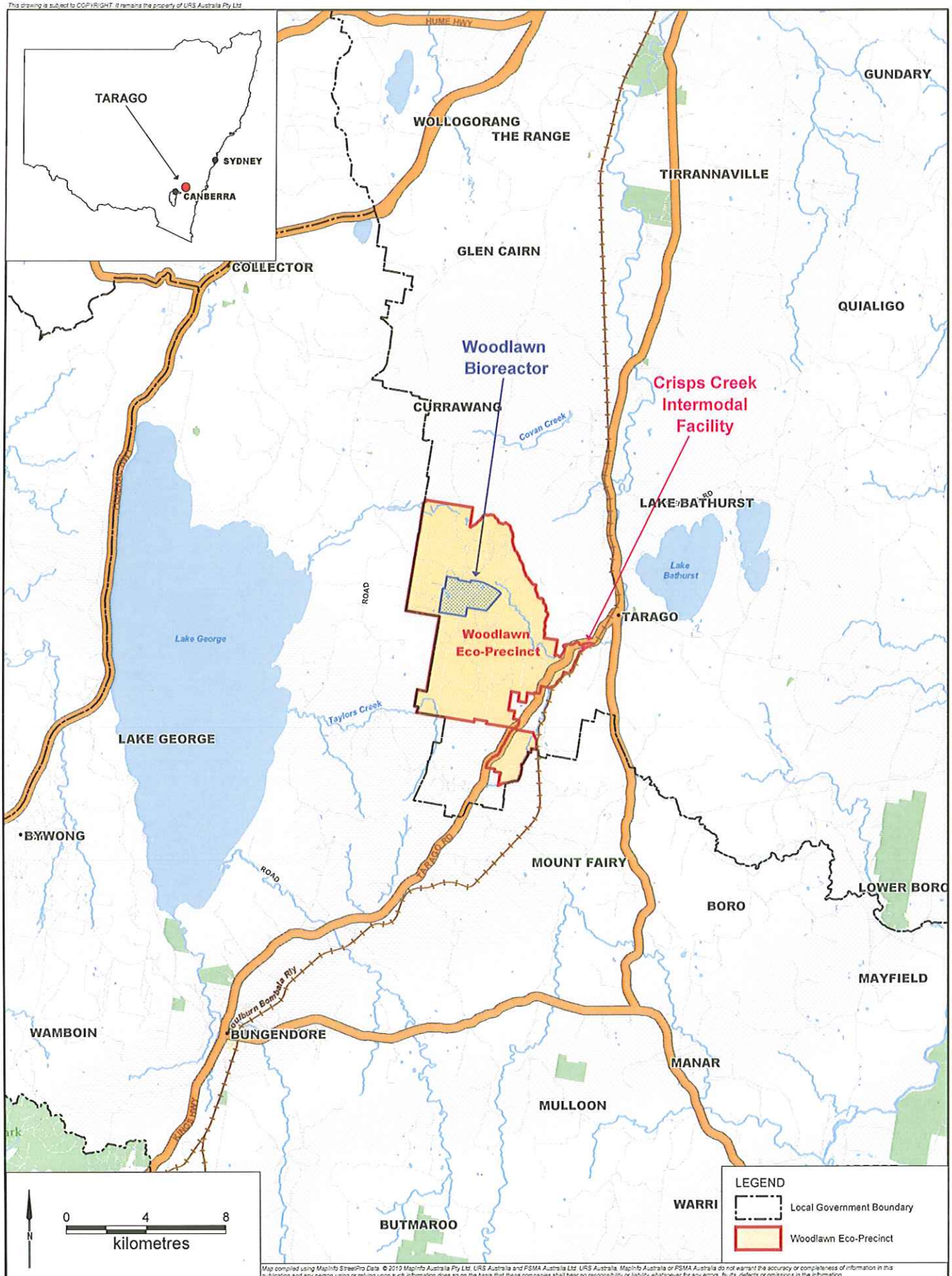
Appendix 2 EPL Boundary Map

Appendix 3 Monitoring Location Maps

Appendix 4 Monitoring Trends

Appendix 5 Tabulated Monitoring Data

Appendix 6 Complaints Register



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URS

Drawn: SB	Approved: LO	Date: 06/08/2010
Job No: 43177703	File No: 43177703.018.wor	

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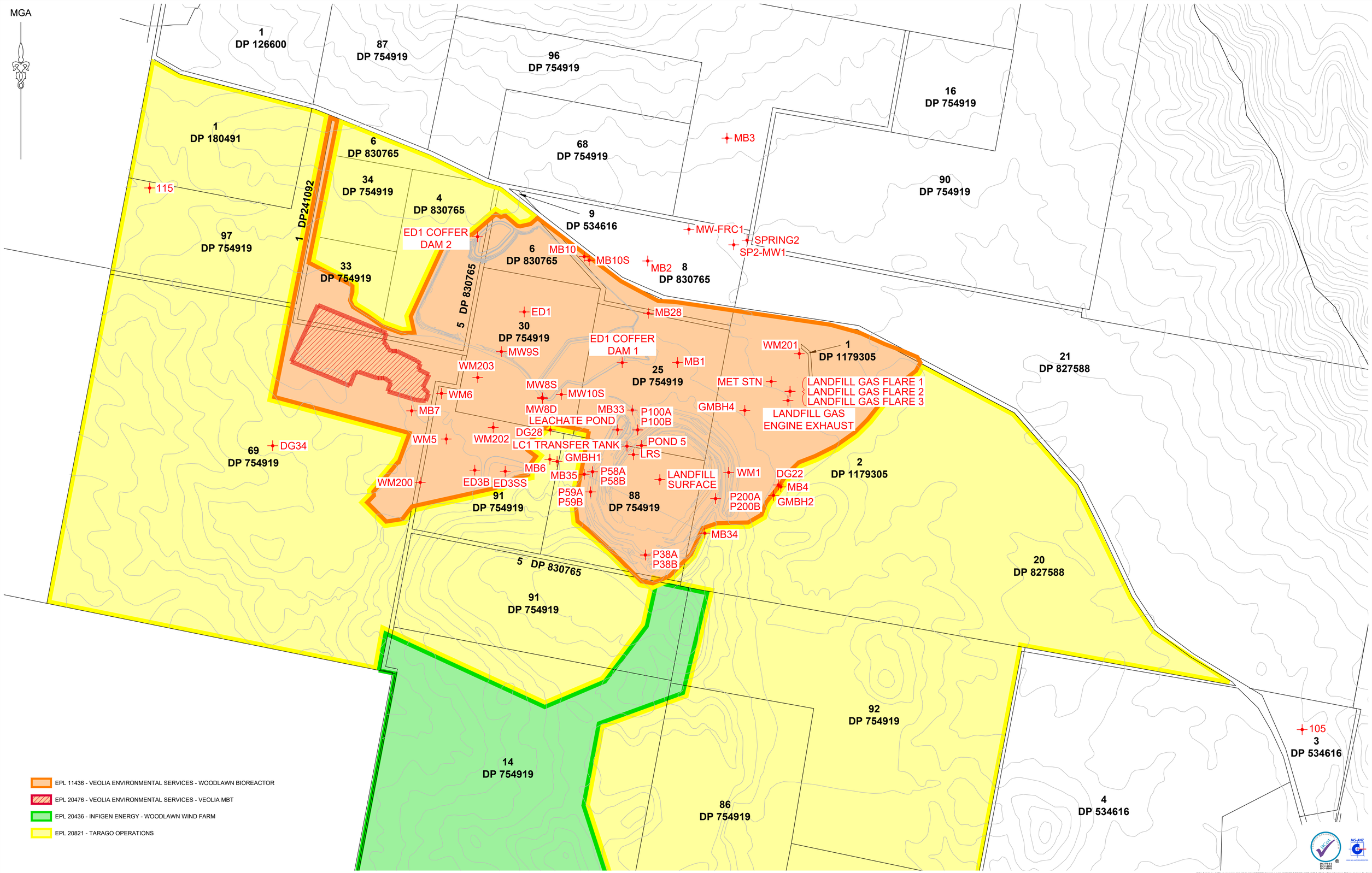

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B	MB34 (VOID EAST WALL) & MB35 (VOID WEST WALL) ADDED	MK	21/04/2021
C	LANDFILL GAS FLARE 2 & 3 ADDED	MK	24/05/2022
D	ED1CD2 & ADDITIONAL AERIAL UNDERLAY SHEET ADDED	MK	18/01/2023
E	COORDINATES UPDATED FOR GMBH1, GMBH2, GMBH4, WM200, WM201, WM202, WM203, LEACHATE POND & LEACHATE RECIRCULATION SYSTEM	MK	3/08/2023

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A1 SHEET

VEOLIA ENVIRONMENTAL SERVICES

WOODLAWN BIOREACTOR
COLLECTOR ROAD, TARAGO

WOODLAWN
ENVIRONMENTAL PROTECTION LICENCE
SITE MONITORING LOCATIONS

DESIGNED: N/A
DRAWN: MK
CHECKED: JK
ISSUE E

DRAWING No. 16800-225

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ED1

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DAM 1

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MB1

WM203

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DP 754919

MET STN

LANDFILL GAS FLARE 1
LANDFILL GAS FLARE 2
LANDFILL GAS FLARE 3

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MW8S

MW10S

WM6

MW8D

MB33

P100A
P100B

GMBH4

LANDFILL GAS
ENGINE EXHAUST

MB7

LEACHATE POND

DG28

WM5

WM202

LC1 TRANSFER TANK

POND 5

LRS

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DG34

GMBH1

MB6

MB35

P58A
P58B

LANDFILL
SURFACE

WM1

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WM200

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EPL 11436 - VEOLIA ENVIRONMENTAL SERVICES - WOODLAWN BIOREACTOR

EPL 20476 - VEOLIA ENVIRONMENTAL SERVICES - VEOLIA MBT

EPL 20436 - INFIGEN ENERGY - WOODLAWN WIND FARM

EPL 20821 - TARAGO OPERATIONS

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LANDFILL GAS FLARE

LANDFILL GAS ENGINE EXHAUST

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MW10S

WM6

MB7

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P100B

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LEACHATE POND

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LRS

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WM202

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GMBH4

GAS EXTRACTION BOOSTER

MB34

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EPL 11436 - VEOLIA ENVIRONMENTAL SERVICES - WOODLAWN BIOREACTOR

EPL 20476 - VEOLIA ENVIRONMENTAL SERVICES - VEOLIA MBT

EPL 20436 - INFIGEN ENERGY - WOODLAWN WIND FARM

EPL 20821 - TARAGO OPERATIONS

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COLLECTOR ROAD, TARAGO

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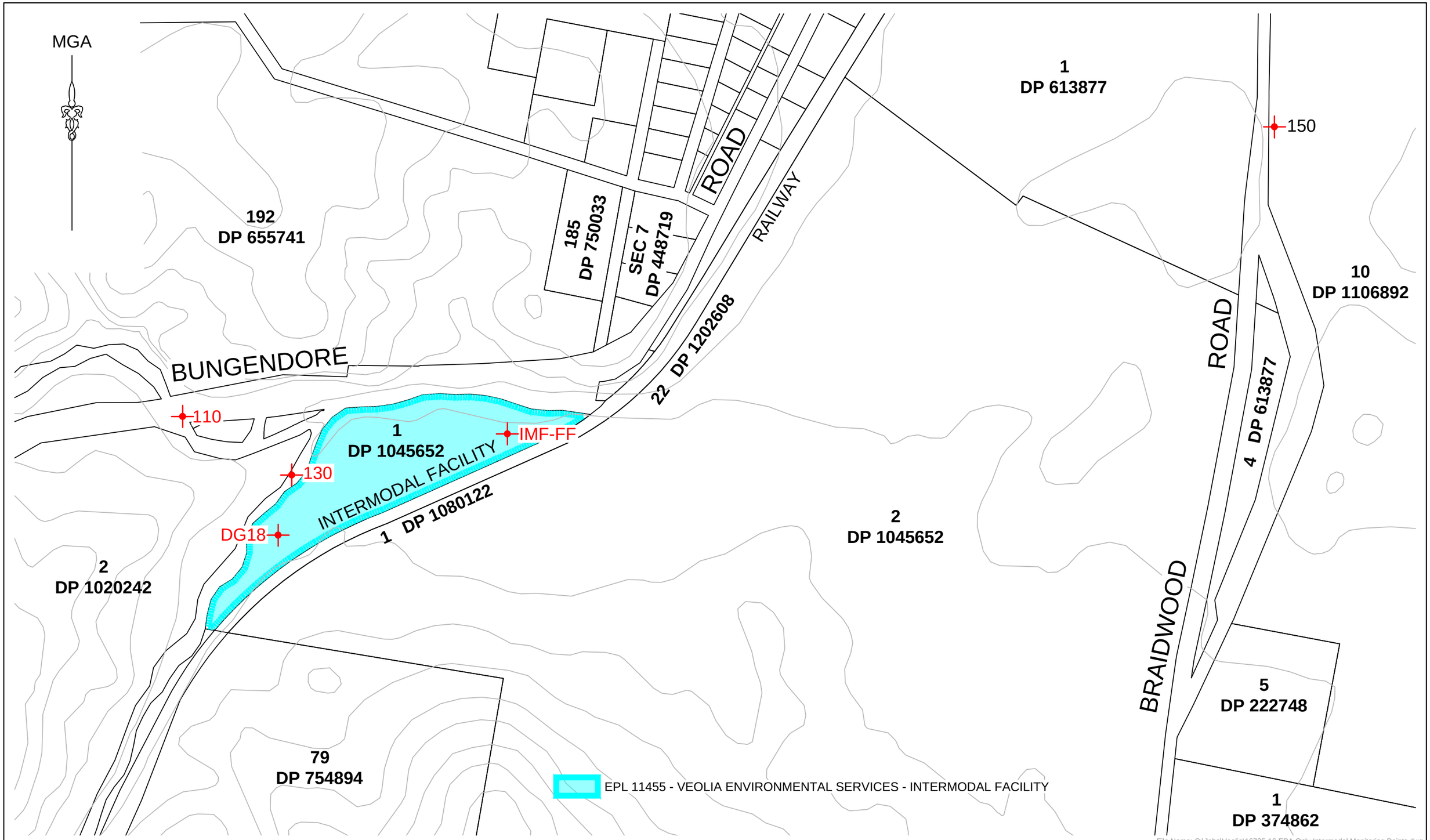

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VEOLIA ENVIRONMENTAL SERVICES

ENVIRONMENTAL PROTECTION LICENCE
SITE MONITORING LOCATIONS
VEOLIA INTERMODAL FACILITY
BUNGENDORE ROAD, TARAGO

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MB12
E 732775 N 6118274

MB11
E 732774 N 6118272

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DP 754919

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DP 830765

Pt 6
DP 830765

4
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EXISTING EVAPORATION
DAM 2

EXISTING EVAPORATION
DAM 1

EPL 20476 POINT 8
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SITE BOUNDARY 4
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EXISTING
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CHANNEL

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SITE BOUNDARY 3
E 733099 N 6117702

APPROVED
BOUNDARY

APPROVED
BOUNDARY

EPL 20476 POINT 12
LEACHATE AERATION POND
E 733062 N 6117682

MBT
FACILITY

PROPOSED STAGE 2
DEVELOPMENT

STORMWATER
PONDS

SITE BOUNDARY 1
E 732639 N 6117576

WM6
E 733346 N 6117412

EXISTING EVAPORATION
DAM 3

30
DP 754919

SITE BOUNDARY 2
E 732889 N 6117451

MB7
E 733204 N 6117329

SITE ENTRY 1
E 733306 N 6117398

EPL 20476 POINT 6
WEST VOID
E 733866 N 6117237

69
DP 754919

5
DP 830765

91
DP 754919

88
DP 754919

ROAD

Pt 6
DP 830765

21
DP 827588

TO TARAGO

ACCESS ROAD TO SITE
(CONSTRUCTION STAGE ONLY)

MAIN FACILTY
ACCESS

PERMANENT SITE
ACCESS

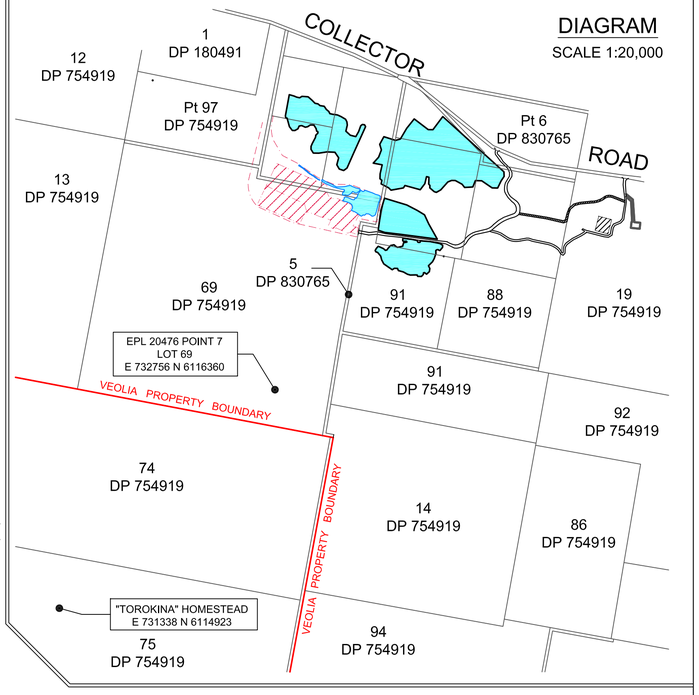
EXISTING
ADMINISTRATION
BUILDING

25
DP 754919

2
DP 1179305

POINT	EASTING	NORTHING
SITE ENTRY 1	733306	6117398
SITE BOUNDARY 1	732639	6117576
SITE BOUNDARY 2	732889	6117453
SITE BOUNDARY 3	733099	6117702
SITE BOUNDARY 4	732768	6117847
EPL 20476 POINT 1 ALLIANOYONYIGA CREEK	731952	6118394
EPL 20476 POINT 6 WEST VOID	733866	6117237
EPL 20476 POINT 7 LOT 69	732756	6116360
EPL 20476 POINT 8 DISCHARGE MONITORING	732919	6117841
EPL 20476 POINT 11 MB32 GROUNDWATER	733079	6117706
EPL 20476 POINT 12 LEACHATE AERATION POND	733062	6117682
MB7	733204	6117329
MB11	732774	6118272
MB12	732775	6118274
MB13	731858	6118412
WM6	733346	6117412
"TOROKINA" HOMESTEAD	731338	6114923

DIAGRAM
SCALE 1:20,000



VEOLIA ENVIRONMENTAL SERVICES

A1 SHEET

SCALE 1:4000

0 80 160 240 320 400
Metres

ISSUE	AMENDMENT	DRAWN	DATE
A	INITIAL ISSUE	MK	12/09/2014
B	MONITORING POINT AMENDMENTS	MK	17/09/2014
C	GENERAL REVISION & AMENDMENTS	MK	6/02/2017
D	LEACHATE AERATION POND ENHANCED	MK	8/02/2017
E	DISCHARGE MONITORING POINT & MB32 AMENDED	MK	15/02/2017
F	STORMWATER PONDS ADDED	MK	20/02/2017

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Integrated Management System

LandTeam

VEOLIA ENVIRONMENTAL SERVICES

WOODLAWN BIOREACTOR
AND MBT FACILITY
COLLECTOR ROAD, TARAGO

PLAN SHOWING SITE LAYOUT AND
ENVIRONMENTAL MONITORING POINTS
WOODLAWN MBT FACILITY
COLLECTOR ROAD, TARAGO

DRAWN: MK
CHECKED: JK
APPROVED: VEOLIA
ISSUE F
DRAWING No. 204543-30

DATUM N/A | CONTOUR INTERVAL N/A | DATE 20/02/2017

J:\Surveyors\Jobs\Veolia\204543 WASP Detail\CAD\204543-30 MBT Facility Plans Issue F.dwg

Table 1.1 GMBH1				
Date	**15/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Methane	0	0	<0.1	<0.1

Table 1.2 GMBH2				
Date	**15/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Methane	0	0.1	<0.1	<0.1

Table 1.3 GMBH4				
Date	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Methane	0	0	<0.1	0.2

Table 2.1 Landfill Gas Booster (Annual)		
Date		**06/07/2023**
Carbon dioxide	%	34.8
Dry gas density	mg/m³	1,300,000
Moisture content	%	0.75
Oxygen (O2)	°C	3.5
Temperature	mg/m³	2
Volatile organic compounds	m³/s	650.00
Volumetric flowrate	m³/s	1.1

Table 2.2 Landfill Gas Booster (Monthly)													
Date (Monthly)	**Unit**	**07/09/2022**	**07/10/2022**	**02/11/2022**	**20/12/2022**	**23/01/2023**	**22/02/2023**	**30/03/2023**	**06/04/2023**	**15/05/2023**	**20/06/2023**	**26/07/2023**	**17/08/2023**
Volumetric flowrate	m³/s	1.65	1.51	1.61	1.52	1.50	1.58	1.50	1.51	1.60	1.65	1.61	1.49
Hydrogen Suphide	ppm	880	814	944	851	1200	2306	700	750	980	700	850	562

Table 3.1 Landfill Surface Gas (Monthly)													
Pollutant	**Measurement**	**Unit**	**29/09/2023**	**20/10/2022**	**15/11/2023**	**06/12/2023**	**12/01/2023**	**16/02/2023**	**15/03/2023**	**21/04/2023**	**22/05/2023**	**28/06/2023**	**27/07/2023**	**17/08/2023**
Methane	Minimum	ppm	2	0	0	0	0	0	0	1	0	6	0	0
	Average	ppm	115	199	66	46	75	93	85	153	57	53	61	42
	Maximum	ppm	3200	14000	1500	609	2500	1300	600	2700	402	460	359	800
Hydrogen Sulphide	Minimum	ppm	0	0	0	0	0	0	0	0	0	0	0	0
	Average	ppm	0.047	0.247	0.086	0.124	0.042	0.203	0.082	0.067	0.02	0.008	0	0.01
	Maximum	ppm	3.2	15.4	4.3	19	2.5	7	7.1	3.6	1.7	0.9	0	2

Table 4.1 Landfill Gas Engine #2 Exhaust		
06/07/2023		
Carbon Dioxide	%	9.8
Carbon Monoxide	mg/m^3	960
Dry Gas Density	mg/m^3	1,340,000
Hydrogen Sulphide	mg/m^3	<1
Moisture Content	%	11
Molcular Weight Of Stack Gases	g/gmol	28.7
Nitrogen Oxides	mg/m^3	310
Oxygen	%	9.2
Sulfuric Acid Mist & Sulfur Trioxides S03	mg/m^3	4.8
Sulphur Dioxide	mg/m^3	210
Temperature	°C	445
Velocity	m/sec	50
Volatile Organic Compounds	mg/m^3	29
Volumetric Flowrate	m^3/s	4.8

Table 4.2 Landfill Gas Flare #1		
05/07/2023		
Designed Residence time	seconds	<0.8
Designed Temparature	°C	1100
Hydrogen Sulphide	mg/m^3	>0.3

Table 4.3 Landfill Gas Flare #2		
05/07/2023		
Designed Residence time	seconds	<0.9
Designed Temparature	°C	1102
Hydrogen Sulphide	mg/m^3	>0.3

Table 4.4 Landfill Gas Flare #3		
05/07/2023		
Designed Residence time	seconds	<0.8
Designed Temparature	°C	1102
Hydrogen Sulphide	mg/m^3	>0.3

Table 5.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth												
Month	**Sep-2022**	**Oct-2022**	**Nov-2022**	**Dec-2022**	**Jan-2023**	**Feb-2023**	**Mar-2023**	**Apr-2023**	**May-2023**	**Jun-2023**	**Jul-2023**	**Aug-2023**
DG 22	1	0.9	1.3	1.8	3.4	8.4	2.7	3.2	0.7	8.6	4.3	2.1
DG 34	8.4	3.5	2.2	9.8	72.1	4.2	2.1	1.4	1.8	1.6	0.7	3.6
DG 28	5.3	1.1	12.5	3.1	1.2	1.2	1.2	0.6	0.4	0.8	0.3	0.7

Table 6.1 Site 115 – Allianoyonyiga Creek					
Pollutant	**Unit**	**15/09/2022**	**13/12/2022**	**01/05/2023**	**15/08/2023**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.1	0.16
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<5
Conductivity	µS/cm	2130	375	1120	3542
pH	pH	8.01	7.93	7.89	7.73
Total Dissolved Solids	mg/L	2050	1880	810	2700
Total Organic Carbon	mg/L	12	17	18	11
Total Potassium	mg/L	1.4	2.3	4	3
Dissolved Oxygen	mg/L	8.0	8.2	8.5	8.7
Oxidation-Reduction Potential	mV	236	89	56	116

Table 6.2 Spring 2					
Pollutant	**Unit**	**16/11/2022**	**14/02/2023**	**17/05/2023**	**16/08/2023**
Nitrogen (ammonia)	mg/L	0.009	0.062	0.046	0.37
Biochemical Oxygen Demand	mg/L	<5	55	20	<5
Conductivity	µS/cm	881	4257	3640	6952
pH	pH	7.3	7.52	7.13	7.49
Total Dissolved Solids	mg/L	890	3700	3300	6500
Total Organic Carbon	mg/L	13	53	37	25
Total Potassium	mg/L	<0.5	5	3	2
Dissolved Oxygen	mg/L	9.63	6.63	8.13	12.71
Oxidation-Reduction Potential	mV	38.7	-53.4	2.3	-4.7

Table 6.3 Site 105 – Crisps Creek					
Pollutant	**Unit**	**29/09/2022**	**15/02/2023**	**01/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	<0.1	0.18	<0.1	0.13
Biochemical Oxygen Demand	mg/L	<2	64	<2	<5
Conductivity	µS/cm	1250	255.1	1260.43	3116
pH	pH	7.97	6.95	7.66	7.74
Total Dissolved Solids	mg/L	843	2100	1150	2000
Total Organic Carbon	mg/L	26	43	18	18
Total Potassium	mg/L	1.5	<0.05	<4.6	4
Dissolved Oxygen	mg/L	8.2	4.0	8.8	8.4
Oxidation-Reduction Potential	mV	231	133.7	332	-156.1

Table 6.4 WM200 Raw Water Dam					
Pollutant	**Unit**	**15/11/2023**	**27/06/2023**	**15/08/2023**	**25/09/2023**
Nitrogen (ammonia)	mg/L	0.042	2	2.1	
Biochemical Oxygen Demand	mg/L	<5	<5	<5	
Conductivity	µS/cm	548	1062	1062	
pH	pH	8.02	6.48	8.09	
Total Dissolved Solids	mg/L	370	670	640	
Total Organic Carbon	mg/L	5	9	18	
Total Potassium	mg/L	3	11	14	
Dissolved Oxygen	mg/L	8.65	10	9.85	
Oxidation-Reduction Potential	mV	-43.8	229.6	53.6	

Table 6.5 WM201 – Entrance Road Culvert					
Pollutant	**Unit**	**16/11/2022**	**14/02/2023**	**16/05/2023**	**15/08/2023**
Nitrogen (ammonia)	mg/L	0.7		0.047	0.230
Biochemical Oxygen Demand	mg/L	<5		8	<5

Conductivity	µS/cm	3059		377.6	431.1
pH	pH	7		6.97	7.58
Total Dissolved Solids	mg/L	280	Dry	300	300
Total Organic Carbon	mg/L	8		10	8
Total Potassium	mg/L	3		3	2
Dissolved Oxygen	mg/L	9.62		9.7	9.57
Oxidation-Reduction Potential	mV	-57.3		-23.1	52.3

Table 6.6 ED3SS – Lagoon 5

Pollutant	Unit	15/11/2022	14/02/2023	17/05/2023	15/08/2023
Nitrogen (ammonia)	mg/L	93	210	150	140
Biochemical Oxygen Demand	mg/L	1750	2200	1100	1160
Conductivity	µS/cm	14566	21729	18847	19098
pH	pH	8.4	8.37	8.35	8.43
Total Dissolved Solids	mg/L	14000	17000	17000	15000
Total Organic Carbon	mg/L	1100	1700	2400	1900
Total Potassium	mg/L	1100	1400	1500	1300
Dissolved Oxygen	mg/L	0.33	0.33	0	0.05
Oxidation-Reduction Potential	mV	-151.4	-150.2	-237.8	-182.9

Table 6.7 WM203 – Evaporation Dam 3 North

Pollutant	Unit	14/02/2023	17/05/2023	15/08/2023	30/08/2023
Nitrogen (ammonia)	mg/L	220	190	240	11
Biochemical Oxygen Demand	mg/L	1050	990	620	480
Conductivity	µS/cm	28898	28835	28080	27666
pH	pH	8.38	8.28	8.42	8.42
Total Dissolved Solids	mg/L	24000	24000	22000	23000
Total Organic Carbon	mg/L	2000	2400	2000	1900
Total Potassium	mg/L	1900	2100	2000	2000
Dissolved Oxygen	mg/L	1.9	0	0.01	0.02
Oxidation-Reduction Potential	mV	-112.9	-237.1	-199.2	-205.3

Table 6.8 Pond 5

Pollutant	Unit	16/11/2022	15/02/2023	18/05/2023	16/08/2023
Nitrogen (ammonia)	mg/L	430	190	430	150
Biochemical Oxygen Demand	mg/L	310	17	36	<5
Conductivity	µS/cm	6084	4316	8405	16970
pH	pH	7.3	6.65	7.02	6.67
Total Dissolved Solids	mg/L	5600	3400	5200	2600
Total Organic Carbon	mg/L	580	74	180	42
Total Potassium	mg/L	200	82	210	56
Dissolved Oxygen	mg/L	2.95	2.18	2.57	0.31
Oxidation-Reduction Potential	mV	-94.2	133.7	87.4	-147.2

Table 6.9 WM202 – ED3S

Pollutant	Unit	15/11/2022	14/2/2023	17/5/2023	15/8/2023
Nitrogen (ammonia)	mg/L	24	30	30	31
Biochemical Oxygen Demand	mg/L	<5	30	<5	<5
Conductivity	µS/cm	2787	3588	3496	3455
pH	pH	4.46	4.11	4.06	4.29
Total Dissolved Solids	mg/L	2600	3300	3200	3200
Total Organic Carbon	mg/L	4	10	11	11

Total Potassium	mg/L	12	15	16	16
Dissolved Oxygen	mg/L	8.1	7.09	7.83	10.22
Oxidation-Reduction Potential	mV	271.4	196.6	142.1	224.9

Table 6.10 ED1 – Evaporation Dam 1

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Nitrogen (ammonia)	mg/L	13	10	11	13
Biochemical Oxygen Demand	mg/L	18	34	<5	<5
Conductivity	µS/cm	13018	14452	14565	14444
pH	pH	3.45	3.02	3.09	3.11
Total Dissolved Solids	mg/L	19000	21000	22000	22000
Total Organic Carbon	mg/L	24	24	34	31
Total Potassium	mg/L	110	120	160	180
Dissolved Oxygen	mg/L	8.45	6.65	8.75	9.41
Oxidation-Reduction Potential	mV	490.9	388.2	263.9	433.4

Table 6.11 ED1 Coffer Dam#1

Pollutant	Unit	29/09/2022	27/10/2022	24/11/2022	29/12/2022	25/01/2023	23/02/2023	30/03/2023	27/04/2023	25/05/2023	29/06/2023	27/07/2023	31/08/2023
Nitrogen (ammonia)	mg/L	<10	<10	<10	<10	<10	4	<1	<10	<10	<10	<1	<1
Biochemical Oxygen Demand	mg/L	20	3	2	5	103	2	6	6	8	31	5	4
Conductivity	µS/cm	18400	17300	17500	17000	18600	18700	20200	2000	19500	19600	18900	19600
pH	pH	8.79	8.78	8.65	8.84	9.01	9.04	9.01	9.07	9.16	8.91	9.04	9.09
Total Dissolved Solids	mg/L	14700	12800	12900	13700	13800	14100	14500	14900	14500	14800	15400	14900
Total Suspended Solids	mg/L	46.4	41	50.7	32.4	947	417	122	95.6	119	93	147	38.4
Chloride	mg/L	3020	2470	2600	2750	3070	2960	3140	3160	3070	3480	2720	2510
Nitrate	mg/L	697	635	636	669	751	649	660	752	686	758	597	686
Phosphorous	mg/L	4.14	3.07	3.04	3.4	<10	3.61	3.76	3.54	3.08	4.18	3.31	3.68
Chemical Oxygen Demand	mg/L	2120	1680	1510	1540	2210	1670	1670	1740	1720	1680	5440	1570

Table 6.12 ED1 Coffer Dam#2

Pollutant	Unit	27/07/2023	31/08/2023
Nitrogen (ammonia)	mg/L	<2	1.3
Biochemical Oxygen Demand	mg/L	7	6
Conductivity	µS/cm	18100	19800
pH	pH	8.44	8.51
Total Dissolved Solids	mg/L	14400	14900
Total Suspended Solids	mg/L	18.5	4
Chloride	mg/L	2620	2370
Nitrate	mg/L	617	661
Phosphorous	mg/L	5.84	6.02
Chemical Oxygen Demand	mg/L	2460	1970

Table 7.1 Leachate Dam			
Pollutant	**Unit***	**Frequency**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	Annual	13000
Aluminium	mg/L	Annual	4.7
Arsenic	mg/L	Annual	0.4
Barium	mg/L	Annual	0.079
Benzene	µg/L	Annual	<0.1
Cadmium	mg/L	Annual	0.0039
Calcium	mg/L	Annual	110
Chloride	mg/L	Annual	3500
Chromium (Hex)	mg/L	Annual	<0.005
Chromium (Total)	mg/L	Annual	0.77
Cobalt	mg/L	Annual	0.11
Conductivity	µS/cm	Annual	26908
Copper	mg/L	Annual	0.014
Ethyl Benzene	µg/L	Annual	<0.1
Fluoride	mg/L	Annual	1
Lead	mg/L	Annual	0.004
Magnesium	mg/L	Annual	130
Manganese	mg/L	Annual	0.16
Mercury	mg/L	Annual	<0.5
Nitrate	mg/L	Annual	<0.05
Nitrite	mg/L	Annual	<0.05
Nitrogen (ammonia)	mg/L	Annual	2200
Organo-chlorine pesticides	mg/L	Annual	<0.004
Organo-phosphate pesticides	mg/L	Annual	<0.0024
pH	pH	Annual	8.5
Phosphorous	mg/L	Annual	26
Polycyclic Aromatic	µg/L	Annual	<0.001
Potassium	mg/L	Annual	1400
Sodium	mg/L	Annual	3200
Sulphate	mg/L	Annual	300
Toluene	µg/L	Annual	<0.1
Total Dissolved Solids	mg/L	Annual	16000
Total Organic Carbon	mg/L	Annual	4100
Total Phenols	mg/L	Annual	5.6
Total Suspended Solids	mg/L	Annual	4300
TPH C10-C14	µg/L	Annual	8.2
TPH C15- C28	µg/L	Annual	20
TPH C29-C36	µg/L	Annual	0.86
TPH C6-C9	µg/L	Annual	<1
Xylene	µg/L	Annual	<0.1
Zinc	mg/L	Annual	0.96

Table 7.2 Leachate Recirculation System			
Pollutant	**Unit***	**Frequency**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	Annual	18000
Aluminium	mg/L	Annual	5
Arsenic	mg/L	Annual	0.72
Barium	mg/L	Annual	0.27
Benzene	µg/L	Annual	<0.1
Cadmium	mg/L	Annual	0.0011
Calcium	mg/L	Annual	50
Chloride	mg/L	Annual	3700
Chromium (Hex)	mg/L	Annual	<0.005
Chromium (Total)	mg/L	Annual	1.2
Cobalt	mg/L	Annual	0.098
Conductivity	µS/cm	Annual	38551
Copper	mg/L	Annual	0.021
Ethyl Benzene	µg/L	Annual	<0.1
Fluoride	mg/L	Annual	1
Lead	mg/L	Annual	0.007
Magnesium	mg/L	Annual	110
Manganese	mg/L	Annual	0.51
Mercury	mg/L	Annual	<0.5
Nitrate	mg/L	Annual	<0.05
Nitrite	mg/L	Annual	<0.05
Nitrogen (ammonia)	mg/L	Annual	3600
Organo-chlorine pesticides	mg/L	Annual	<0.004
Organo-phosphate	mg/L	Annual	<0.0024
pH	pH	Annual	8.18
Phosphorous	mg/L	Annual	25
Polycyclic Aromatic	µg/L	Annual	<0.001
Potassium	mg/L	Annual	1400
Sodium	mg/L	Annual	3400
Sulphate	mg/L	Annual	36
Toluene	µg/L	Annual	<0.1
Total Dissolved Solids	mg/L	Annual	17000
Total Organic Carbon	mg/L	Annual	4200
Total Phenols	mg/L	Annual	7
Total Suspended Solids	mg/L	Annual	210
TPH C10-C14	µg/L	Annual	13
TPH C15- C28	µg/L	Annual	36
TPH C29-C36	µg/L	Annual	1.4
TPH C6-C9	µg/L	Annual	<1
Xylene	µg/L	Annual	<0.1
Zinc	mg/L	Annual	0.44

Table 8.1 Effluent from Leachate Treatment Plant (LTP)										
Date	**pH**	**Conductivity (uS/cm)**	**COD (mg/L)**	**BOD (mg/L)**	**Total Phosphorous (mg/L)**	**Ammonia (NH4-N) (mg/L)**	**Nitrate (NO3-N) (mg/L)**	**TSS (mg/L)**	**TDS (mg/L)**	**Chloride (mg/L)**
08/09/2022	7.8	14200	1260	<2	5.7	<10	550	<0.5	10600	1820
15/09/2022	7.7	13800	1260	2.0	3.3	<10	563	1.8	10500	1710
21/09/2022	7.6	11800	1210	3.0	2.5	<0.1	214	0.8	10300	1770
29/09/2022	7.6	12500	1070	<2	2.4	<10	451	0.7	9900	1710
06/10/2022	7.7	13900	1280	2.0	2.6	<10	600	1.0	10400	1700
13/10/2022	7.8	14200	1170	2.0	2.3	<10	538	<0.5	10800	1670
20/10/2022	7.7	13300	1100	<2	2.8	<10	626	0.6	10300	2530
27/10/2022	7.7	13000	1420	<2	2.1	<10	461	<0.5	9860	1760
03/11/2022	7.7	12900	975	2.0	2.0	<10	502	<0.5	9510	1710
10/11/2022	7.8	14200	1230	<2	3.0	<10	774	<0.5	11100	1790
17/11/2022	7.5	15200	1180	<2	3.1	<10	901	0.8	11800	1640
24/11/2022	7.8	13600	1310	2.0	2.8	<10	623	<0.5	10600	1230
01/12/2022	7.8	12800	1190	<2	2.2	<10	630	0.5	9880	1660
08/12/2022	7.8	14000	1300	<2	2.0	6.9	709	<2	10900	1880
15/12/2022	7.7	15000	1540	<2	2.3	<10	697	<0.5	11600	2020
22/12/2022	7.7	15200	1480	2.0	2.3	9.6	828	<0.5	13000	2170
29/12/2022	7.7	16600	1630	3.0	4.3	<10	1040	<0.5	14000	2300
05/01/2023	7.8	17300	2040	4.0	3.9	<10	859	1.5	14100	2350
12/01/2023	7.7	18600	1880	<2	4.5	<10	1170	2.1	14700	2590
19/01/2023	7.8	16100	2140	3.0	5.8	<10	1040	2.7	15000	2410
25/01/2023	7.7	17800	1860	2.0	<20	<10	1090	<0.5	13900	3100
02/02/2023	8.0	16300	1540	2.0	3.5	<10	818	0.8	11800	2430
09/02/2023	8.0	16100	1100	3.0	2.8	<10	833	<0.5	12200	2360
16/02/2023	7.7	15000	1610	2.0	1.4	<10	866	<0.5	12000	1940
23/02/2023	8.0	15900	1780	2.0	1.4	1.3	625	<0.5	12600	2090
02/03/2023	8.0	17100	1860	5.0	1.3	<10	636	<0.5	11500	2340
09/03/2023	8.2	16000	1770	4.0	1.5	29.7	796	0.7	13600	2580
16/03/2023	7.7	19000	1970	4.0	1.7	<10	963	3.1	14900	2640
23/03/2023	8.0	19900	2020	4.0	1.8	<10	795	<0.5	12900	2810
30/03/2023	8.1	18900	1950	3.0	2.4	<10	645	0.6	13600	2920
06/04/2023	7.8	18200	1760	3.0	1.9	<10	654	<0.5	13300	2440
13/04/2023	8.1	17700	1710	<2	2.1	<10	629	<0.5	12300	2560
20/04/2023	7.9	18400	1420	4.0	3.1	<10	885	1.9	13600	2370
27/04/2023	8.0	16800	1680	3.0	2.1	<10	567	<0.5	12500	2460
04/05/2023	7.9	15800	1550	3.0	1.2	<10	468	1.0	11400	2310
11/05/2023	8.1	14000	1340	2.0	1.1	<10	323	<0.5	10100	2030
18/05/2023	7.9	13400	1460	3.0	0.9	<10	272	<0.5	9770	1780
25/05/2023	7.7	14800	1840	4.0	1.6	<10	343	0.5	10700	2140
01/06/2023	7.6	15400	1830	4.0	1.7	<10	329	1.6	11200	2660
08/06/2023	7.7	16500	1970	3.0	2.6	<10	508	4.0	12400	2490
15/06/2023	7.9	17900	2020	3.0	3.7	<10	674	1.8	13900	2540
22/06/2023	7.8	18500	2390	4.0	4.9	<10	784	<0.5	15400	3580
29/06/2023	7.7	19200	2480	4.0	5.0	<10	760	1.8	15200	3650
06/07/2023	7.9	18500	2380	5.0	3.7	<10	625	<0.5	14500	2390
13/07/2023	7.9	18100	2350	4.0	5.2	<10	534	<0.5	13500	2260
20/07/2023	7.7	19000	2290	<2	7.3	<10	739	<0.5	14700	2420
27/07/2023	8.0	19800	2310	3.0	7.2	<10	830	<0.5	16600	2490
03/08/2023	7.9	20300	2490	3.0	5.9	<2	645	<0.5	15800	2590
10/08/2023	8.0	19600	2550	4.0	4.8	<10	638	3.6	15400	2440
17/08/2023	8.1	18400	1740	2.0	4.1	<10	436	<0.5	13800	2420
24/08/2023	8.0	19300	2330	2.0	3.9	<10	629	3.5	14800	2470
31/08/2023	8.1	19600	2040	2.0	6.4	1.2	723	<0.5	14700	2850

Table 9.1 MB1					
Pollutant	**Unit**	**14/11/2022**	**13/02/2023**	**17/05/2023**	**16/08/23**
Alkalinity (as CaCO3)	mg/L	380	380	280	400
Nitrogen (ammonia)	mg/L	<0.005	<0.005	0.22	0.022
Chloride	mg/L	250	280	280	310
Calcium	mg/L	170	170	170	160
Magnesium	mg/L	90	94	91	94
Potassium	mg/L	7.9	7.7	8.4	7.6
Sodium	mg/L	59	84	74	58
pH	pH	6.75	6.8	7.39	7.46
Sulphate	mg/L	320	300	270	310
Total Dissolved Solids	mg/L	1400	1300	1300	1300
Standing water level	m	12.53	13.71	14.29	13.69
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.120	
Benzene	mg/L			<0.001	
Cadmium	mg/L			<0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.003	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			0.0010	
Manganese	mg/L			0.26	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.04	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			<0.31	

Table 9.2 MB2					
Pollutant	**Unit**	**3/11/2022**	**14/02/2023**	**16/05/2023**	**17/08/2023**
Alkalinity (as CaCO3)	mg/L	240	300	290	330
Nitrogen (ammonia)	mg/L	0.056	<0.005	0.03	0.15
Chloride	mg/L	790	910	1000	1100
Calcium	mg/L	500	560	540	490
Magnesium	mg/L	780	710	730	740
Potassium	mg/L	2	2	2	2
Sodium	mg/L	230	350	330	290
pH	pH	6.38	6.54	6.46	6.67
Sulphate	mg/L	3400	4500	3400	3600
Total Dissolved Solids	mg/L	6000	6400	7400	7300
Standing water level	m	1.15	1.84	1.65	1.73
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.032	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.05	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.002	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			<0.001	
Manganese	mg/L			0.05	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.17	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total petroleum hydrocarbons	mg/L			<0.01	
Total Phenolics	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.068	

Table 9.3 MB3					
Pollutant	**Unit**	**3/11/2022**	**13/02/2023**	**16/05/2023**	**16/08/2023**
Alkalinity (as CaCO3)	mg/L	250	240	230	250
Nitrogen (ammonia)	mg/L	<0.005	<0.005	<0.005	0.19
Chloride	mg/L	400	460	460	510
Calcium	mg/L	130	120	130	120
Magnesium	mg/L	99	96	100	100
Potassium	mg/L	2	2	2	2
Sodium	mg/L	62	83	75	65
pH	pH	6.49	6.75	6.69	6.68
Sulphate	mg/L	25	34	46	42
Total Dissolved Solids	mg/L	1400	1400	1100	1100
Standing water level	m	0	0	0	0.2
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.032	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.1	
Lead	mg/L			<0.001	
Manganese	mg/L			<0.005	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.74	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			1	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.016	

Table 9.4 MB4					
Pollutant	**Unit**	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Alkalinity (as CaCO3)	mg/L	18	39	8	22
Nitrogen (ammonia)	mg/L	0.11	0.081	0.07	0.43
Chloride	mg/L	450	610	560	470
Calcium	mg/L	11	11	11	11
Magnesium	mg/L	120	130	140	120
Potassium	mg/L	4	3	3	2
Sodium	mg/L	190	300	250	230
pH	pH	4.9	5.82	5.12	5.5
Sulphate	mg/L	290	250	440	280
Total Dissolved Solids	mg/L	1400	1500	1600	1200
Standing water level	m	9.29	9.1	9.34	9.28
Aluminium	mg/L			1.6	
Arsenic	mg/L			0.003	
Barium	mg/L			0.047	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.1	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.07	
Copper	mg/L			0.500	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			0.0130	
Manganese	mg/L			1.8	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.16	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			19	

Table 9.5 MB6					
Pollutant	**Unit**	**17/11/2022**	**15/02/2023**	**18/05/2023**	**30/08/2023**
Alkalinity (as CaCO3)	mg/L				
Nitrogen (ammonia)	mg/L				
Chloride	mg/L				
Calcium	mg/L				
Magnesium	mg/L				
Potassium	mg/L				
Sodium	mg/L				
pH	pH				
Sulphate	mg/L				
Total Dissolved Solids	mg/L				
Standing water level	m				
Aluminium	mg/L				
Arsenic	mg/L				
Barium	mg/L				

Table 9.6 MB7					
Pollutant	**Unit**	**15/11/2023**	**14/02/2023**	**17/05/2023**	**13/08/23**
Alkalinity (as CaCO3)	mg/L	660	670	420	630
Nitrogen (ammonia)	mg/L	0.007	0.081	<0.005	0.01
Chloride	mg/L	2200	2500	2500	2400
Calcium	mg/L	290	270	270	240
Magnesium	mg/L	530	490	490	430
Potassium	mg/L	9.9	9.6	11	8.6
Sodium	mg/L	470	500	560	390
pH	pH	7.06	6.86	6.9	7
Sulphate	mg/L	210	190	200	200
Total Dissolved Solids	mg/L	4800	5300	6000	5200
Standing water level	m	0.88	1.54	2	2.08
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.1000	

Benzene	mg/L					Benzene	mg/L			<0.001	
Cadmium	mg/L					Cadmium	mg/L			0.001	
Chromium (hexavalent)	mg/L					Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L					Chromium (total)	mg/L			0.002	
Cobalt	mg/L	Dry	Dry	Dry	Dry	Cobalt	mg/L			<0.001	
Copper	mg/L					Copper	mg/L			0.005	
Ethyl benzene	mg/L					Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L					Fluoride	mg/L			0.3	
Lead	mg/L					Lead	mg/L			<0.001	
Manganese	mg/L					Manganese	mg/L			0.022	
Mercury	mg/L					Mercury	mg/L			<0.00005	
Nitrate	mg/L					Nitrate	mg/L			0.39	
Nitrite	mg/L					Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L					Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L					Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L					Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L					Toluene	mg/L			<0.001	
Total organic carbon	mg/L					Total organic carbon	mg/L			5	
Total Phenolics	mg/L					Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L					Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L					Xylene	mg/L			<0.001	
Zinc	mg/L					Zinc	mg/L			0.13	

Table 9.7 MB10

Pollutant	Unit	03/11/2022	13/02/2023	16/05/2023	16/08/2023
Alkalinity (as CaCO3)	mg/L	290	300	280	290
Nitrogen (ammonia)	mg/L	0.01	<0.005	<0.005	0.43
Chloride	mg/L	1100	1100	1200	1200
Calcium	mg/L	540	550	540	480
Magnesium	mg/L	740	710	770	810
Potassium	mg/L	1	2	1	1
Sodium	mg/L	430	450	530	400
pH	pH	6.87	7.02	6.57	6.71
Sulphate	mg/L	3400	3600	3900	4200
Total Dissolved Solids	mg/L	7800	7100	7300	8000
Standing water level	m	0.51	2	1.8	1.9
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0130	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.006	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.20	
Lead	mg/L			<0.001	
Manganese	mg/L			0.04	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			<0.005	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.043	

Table 9.8 ED3B

Pollutant	Unit	16/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	540	540	480	550
Nitrogen (ammonia)	mg/L	0.12	0.084	0.044	0.06
Chloride	mg/L	1600	1700	1700	1800
Calcium	mg/L	93	93	91	88
Magnesium	mg/L	440	390	390	410
Potassium	mg/L	0.5	0.7	1	0.5
Sodium	mg/L	810	1200	1100	720
pH	pH	6.1	6.46	6.68	7.56
Sulphate	mg/L	1700	1500	1500	1700
Total Dissolved Solids	mg/L	5600	5800	5400	5000
Standing water level	m	2.43	2.32	2.8	2.68
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0390	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.002	
Copper	mg/L			0.0080	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.4	
Lead	mg/L			<0.001	
Manganese	mg/L			0.54	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.11	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			6	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.12	

Table 9.9 WM1

Pollutant	Unit	16/11/2022	15/02/2023	22/05/2023	17/08/2023
Alkalinity (as CaCO3)	mg/L	80	170	180	220
Nitrogen (ammonia)	mg/L	0.045	0.08	0.012	0.17
Chloride	mg/L	31	62	74	88
Calcium	mg/L	97	200	230	240
Magnesium	mg/L	20	50	65	74
Potassium	mg/L	4	5.8	6.5	6.8
Sodium	mg/L	16	32	35	42
pH	pH	5.7	6.74	6.25	6.99
Sulphate	mg/L	260	600	710	920
Total Dissolved Solids	mg/L	460	1100	1300	1500
Standing water level	m	23.53	23.33	22.92	18.78
Aluminium	mg/L			<0.01	
Arsenic	mg/L			<0.001	
Barium	mg/L			0.0340	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.035	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.035	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.021	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.3	
Lead	mg/L			0.0060	
Manganese	mg/L			0.54	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.56	
Nitrite	mg/L			0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	

Table 9.10 WM5

Pollutant	Unit	16/11/2022	16/11/2022	17/05/2023	15/08/23
Alkalinity (as CaCO3)	mg/L	870	860	570	620
Nitrogen (ammonia)	mg/L	0.2	0.34	0.21	0.2
Chloride	mg/L	2400	2700	1800	1900
Calcium	mg/L	160	130	73	84
Magnesium	mg/L	490	410	250	280
Potassium	mg/L	3	3	3	2
Sodium	mg/L	850	1200	740	560
pH	pH	7.2	6.76	6.8	6.91
Sulphate	mg/L	240	180	160	180
Total Dissolved Solids	mg/L	6200	5700	4200	4100
Standing water level	m	0.1	0.72	0.55	0.56
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.010	
Barium	mg/L			0.5400	
Benzene	mg/L			<0.001	
Cadmium	mg/L			<0.0001	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			<0.001	
Copper	mg/L			<0.001	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			4.3	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			<0.005	
Nitrite	mg/L			0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	

Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			3	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			3.1	

Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			7	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.013	

Table 9.11 WM6

Pollutant	Unit	14/11/2022	01/01/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	45	76	75	80
Nitrogen (ammonia)	mg/L	0.042	0.076	0.076	0.094
Chloride	mg/L	4100	4300	4500	5000
Calcium	mg/L	140	99	110	120
Magnesium	mg/L	540	400	440	510
Potassium	mg/L	3	2	3	2
Sodium	mg/L	1600	2200	2000	1700
pH	pH	5.06	5.67	5.51	5.56
Sulphate	mg/L	1200	330	380	530
Total Dissolved Solids	mg/L	8900	7800	9500	10000
Standing water level	m	2.54	2.79	3.02	2.58
Aluminium	mg/L			0.03	
Arsenic	mg/L			0.002	
Barium	mg/L			0.0480	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0025	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.043	
Copper	mg/L			0.019	
Ethyl benzene	mg/L			0.001	
Fluoride	mg/L			0.2	
Lead	mg/L			0.0040	
Manganese	mg/L			0.15	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			27	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			4	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.240	

Table 9.12 MW8S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	5	6	22	70
Nitrogen (ammonia)	mg/L	0.1	0.01	0.19	0.074
Chloride	mg/L	200	210	570	540
Calcium	mg/L	170	150	180	160
Magnesium	mg/L	380	370	380	480
Potassium	mg/L	2	2	50	15
Sodium	mg/L	220	320	430	420
pH	pH	4.57	4.89	5.58	5.9
Sulphate	mg/L	2800	2800	2600	3700
Total Dissolved Solids	mg/L	4000	4100	4400	5300
Standing water level	m	3.42	3.29	3.56	3.31
Aluminium	mg/L			1.6	
Arsenic	mg/L			0.049	
Barium	mg/L			0.0190	
Benzene	mg/L			<0.001	
Cadmium	mg/L			1.5	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.003	
Cobalt	mg/L			0.62	
Copper	mg/L			1.5	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			1.3	
Lead	mg/L			0.18	
Manganese	mg/L			13	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			84.00	
Nitrite	mg/L			0.008	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			33	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			180	

Table 9.13 MW8D

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/23
Alkalinity (as CaCO3)	mg/L	<5	<5	<5	28
Nitrogen (ammonia)	mg/L	1.3	6.3	4.5	1.5
Chloride	mg/L	400	400	570	670
Calcium	mg/L	340	250	270	270
Magnesium	mg/L	740	430	530	700
Potassium	mg/L	6.5	9.9	11	5.5
Sodium	mg/L	390	380	370	340
pH	pH	4.69	4.41	4.72	5.39
Sulphate	mg/L	4400	3300	4700	4900
Total Dissolved Solids	mg/L	6200	4200	6100	7200
Standing water level	m	3.48	3.54	12.06	2.9
Aluminium	mg/L			19	
Arsenic	mg/L			0.027	
Barium	mg/L			0.03	
Benzene	mg/L			<0.001	
Cadmium	mg/L			1.700	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.001	
Cobalt	mg/L			0.93	
Copper	mg/L			11	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			0.69000	
Manganese	mg/L			18	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.19	
Nitrite	mg/L			0.028	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			8	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			250	

Table 9.14 MW9S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	Unable to access	Unable to access	Unable to access	Unable to access
Nitrogen (ammonia)	mg/L				
Chloride	mg/L				
Calcium	mg/L				
Magnesium	mg/L				
Potassium	mg/L				
Sodium	mg/L				
pH	pH				
Sulphate	mg/L				
Total Dissolved Solids	mg/L				
Standing water level	m				
Aluminium	mg/L				
Arsenic	mg/L				
Barium	mg/L				
Benzene	mg/L				
Cadmium	mg/L				
Chromium (hexavalent)	mg/L				
Chromium (total)	mg/L				
Cobalt	mg/L				
Copper	mg/L				
Ethyl benzene	mg/L				
Fluoride	mg/L				
Lead	mg/L				
Manganese	mg/L				
Mercury	mg/L				
Nitrate	mg/L				
Nitrite	mg/L				
Organochlorine pesticides	mg/L				
Organophosphate pesticides	mg/L				
Polycyclic aromatic hydrocarbons	mg/L				
Toluene	mg/L				
Total organic carbon	mg/L				
Total Phenolics	mg/L				
Total petroleum hydrocarbons	mg/L				
Xylene	mg/L				
Zinc	mg/L				

Table 9.15 MW10S

Pollutant	Unit	14/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L			<5	<5
Nitrogen (ammonia)	mg/L			2.1	0.19
Chloride	mg/L			380	640
Calcium	mg/L			320	230
Magnesium	mg/L			310	300

Table 9.16 MB28

Pollutant	Unit	31/10/2022	13/2/2023	16/5/2023	16/8/2023
Alkalinity (as CaCO3)	mg/L	630	670	560	520
Nitrogen (ammonia)	mg/L	<0.005	0.03	0.01	0.18
Chloride	mg/L	800	860	1900	2100
Calcium	mg/L	100	120	170	180
Magnesium	mg/L	240	290	430	470

Potassium	mg/L			24	18
Sodium	mg/L			340	350
pH	pH			4.51	4.56
Sulphate	mg/L			2200	2000
Total Dissolved Solids	mg/L			4700	4300
Standing water level	m			9.15	9.02
Aluminium	mg/L			17	
Arsenic	mg/L			0.0150	
Barium	mg/L			0.031	
Benzene	mg/L			<0.001	
Cadmium	mg/L			2.1	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.002	
Cobalt	mg/L	Dry	Dry	1	
Copper	mg/L			7.3	
Ethyl benzene	mg/L			0.001	
Fluoride	mg/L			0.3	
Lead	mg/L			0.69	
Manganese	mg/L			35	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			160	
Nitrite	mg/L			0.022	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			14	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			240	

Potassium	mg/L	1	0.9	2	1
Sodium	mg/L	500	580	750	500
pH	pH	7.09	5.85	7.08	7.77
Sulphate	mg/L	700	790	920	1000
Total Dissolved Solids	mg/L	3200	3400	5200	5400
Standing water level	m	5.44	6.11	6.10	6.63
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.001	
Barium	mg/L			0.038	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.016	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			0.003	
Cobalt	mg/L			<0.001	
Copper	mg/L			0.007	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.6	
Lead	mg/L			<0.001	
Manganese	mg/L			0.01	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			2.8	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			4	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.82	

Table 9.17 MB33

Pollutant	Unit	16/11/2022	14/02/2023	18/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	360	190	120	170
Nitrogen (ammonia)	mg/L	0.89	0.21	0.045	0.065
Chloride	mg/L	140	150	160	160
Calcium	mg/L	120	170	160	120
Magnesium	mg/L	13	88	87	75
Potassium	mg/L	100	16	21	25
Sodium	mg/L	200	92	88	80
pH	pH	11.31	6.53	6.59	8.15
Sulphate	mg/L	450	630	620	660
Total Dissolved Solids	mg/L	1300	1400	1100	1200
Standing water level	m	41.05	42.53	42.80	43.07
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.003	
Barium	mg/L			0.0570	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0067	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.003	
Copper	mg/L			0.015	
Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			0.4	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.094	
Nitrite	mg/L			<0.005	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			2	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			0.97	

Table 9.18 SP2-MW1

Pollutant	Unit	16/11/2022	15/02/2023	17/05/2023	16/08/2023
Chloride	mg/L	790	910	920	960
Conductivity	µS/cm	-135.6	-63.1	2886	3595
pH	pH	6.0	7.01	6.75	6.89
Sulphate	mg/L	130	120	280	500
Total Dissolved Solids	mg/L	2100	2400	2300	2000
Standing Water Level	m	1.13	1.40	1.42	1.90
Cadmium	mg/L	0.0025	0.0005	0.0011	0.0018
Copper	mg/L	0.11	0.001	0.002	<0.001
Lead	mg/L	0.69	<0.001	<0.001	<0.001
Zinc	mg/L	0.920	0.052	0.390	0.00015

Table 9.19 MW-FRC1

Pollutant	Unit	3/11/2022	14/02/2023	16/05/2023	17/08/2023
Chloride	mg/L	1100	550	1200	1300
Conductivity	µS/cm	4430	4500	4291	4261
pH	pH	6.70	6.89	6.93	7.32
Sulphate	mg/L	130	2400	140	160
Total Dissolved Solids	mg/L	3300	4600	2600	2700
Standing Water Level	m	0.61	1.11	1.10	1.20
Cadmium	mg/L	0.0004	0.0003	0.0002	0.0002
Copper	mg/L	0.016	0.001	0.002	0.002
Lead	mg/L	0.009	<0.001	<0.001	<0.001
Zinc	mg/L	0.16	0.034	0.026	0.021

Table 9.20 MB10S

Pollutant	Unit	3/11/2022	13/02/2023	16/05/2023	16/08/2023
Chloride	mg/L	480	1100	570	620
Conductivity	µS/cm	5243	5451	5402	5227
pH	pH	6.74	6.83	6.89	7.14
Sulphate	mg/L	2300	3600	2600	2900
Total Dissolved Solids	mg/L	5300	7100	5100	5100
Standing Water Level	m	0.31	0.32	0.55	0.57
Cadmium	mg/L	0.011	0.0013	0.0014	0.0013
Copper	mg/L	0.43	0.009	0.004	<0.001
Lead	mg/L	0.45	<0.001	<0.001	<0.001
Zinc	mg/L	5.1	0.31	0.32	0.29

Table 9.21 MB34

Pollutant	Unit	13/11/2022	14/02/2023	18/05/2023	17/08/2023
Alkalinity (as CaCO3)	mg/L	290	370	330	290
Nitrogen (ammonia)	mg/L	0.046	0.11	0.18	0.19
Chloride	mg/L	270	300	280	310
Calcium	mg/L	88	81	79	74
Magnesium	mg/L	120	120	120	120
Potassium	mg/L	4	5	5	4
Sodium	mg/L	65	92	78	69
pH	pH	5.56	6.53	6.46	7.72
Sulphate	mg/L	230	290	260	280
Total Dissolved Solids	mg/L	1100	1300	1200	1100
Standing water level	m	52.94	48.89	51.73	51.09
Aluminium	mg/L			<0.01	
Arsenic	mg/L			0.002	
Barium	mg/L			0.0290	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0052	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.006	
Copper	mg/L			0.031	

Table 9.22 MB35

Pollutant	Unit	16/11/2022	14/02/2023	17/05/2023	15/08/2023
Alkalinity (as CaCO3)	mg/L	260	600	15	350
Nitrogen (ammonia)	mg/L	14	0.68	0.37	3.1
Chloride	mg/L	170	120	96	130
Calcium	mg/L	460	260	270	260
Magnesium	mg/L	530	37	120	72
Potassium	mg/L	18	9.7	13	12
Sodium	mg/L	210	100	96	78
pH	pH	5.50	6.87	6.58	6.29
Sulphate	mg/L	9200	380	820	1000
Total Dissolved Solids	mg/L	11000	1400	1400	1900
Standing water level	m	36.95	39.29	40.81	41.74
Aluminium	mg/L			0.03	
Arsenic	mg/L			0.008	
Barium	mg/L			0.0370	
Benzene	mg/L			<0.001	
Cadmium	mg/L			0.0004	
Chromium (hexavalent)	mg/L			<0.000005	
Chromium (total)	mg/L			<0.001	
Cobalt	mg/L			0.078	
Copper	mg/L			0.002	

Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.5	
Lead	mg/L			<0.001	
Manganese	mg/L			1.1	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.093	
Nitrite	mg/L			0.016	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			6	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			2.2	

Ethyl benzene	mg/L			<0.001	
Fluoride	mg/L			0.8	
Lead	mg/L			<0.001	
Manganese	mg/L			7.3	
Mercury	mg/L			<0.00005	
Nitrate	mg/L			0.31	
Nitrite	mg/L			0.13	
Organochlorine pesticides	mg/L			<0.02	
Organophosphate pesticides	mg/L			<0.05	
Polycyclic aromatic hydrocarbons	mg/L			<0.1	
Toluene	mg/L			<0.001	
Total organic carbon	mg/L			22	
Total Phenolics	mg/L			<0.01	
Total petroleum hydrocarbons	mg/L			<0.26	
Xylene	mg/L			<0.001	
Zinc	mg/L			31	

Table 10.1 P38				
P38A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	35.12	Inaccesible	Inaccesible	31.24
Depth to Water (Reduced Level)	780.19	815.31	815.31	784.07
P38B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	59.81	Inaccesible	Inaccesible	55.21
Depth to Water (Reduced Level)	755.50	815.31	815.31	760.10

Table 10.2 P200				
P200A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	21.00	22.70	22.97	22.80
Depth to Water (Reduced Level)	794.31	792.61	792.34	792.51
P200B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	21.30	26.30	25.40	25.38
Depth to Water (Reduced Level)	794.01	789.01	789.91	789.93

Table 10.3 P58				
P58A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	57.00	56.31	48.50	47.20
Depth to Water (Reduced Level)	758.31	759.00	766.81	768.11
P58B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	42.00	44.90	43.89	42.90
Depth to Water (Reduced Level)	773.31	770.41	771.42	772.41

Table 10.4 P59				
P59A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	16.39	16.50	14.20	14.02
Depth to Water (Reduced Level)	798.92	798.81	801.11	801.29
P59B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	17.07	17.45	16.80	16.56
Depth to Water (Reduced Level)	798.24	797.86	798.51	798.75

Table 10.5 P100				
P100A				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	39.60	40.80	38.00	38.47
Depth to Water (Reduced Level)	775.71	774.51	777.31	776.84
P100B				
Date	**06/12/2022**	**03/03/2023**	**10/05/2023**	**09/08/2023**
Depth to Water	52.69	54.74	53.10	52.98
Depth to Water (Reduced Level)	762.62	760.57	762.21	762.33

Table 11.1 Site 110 - Upstream					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	0.025	0.015	0.23	0.16
Biochemical Oxygen Demand	mg/L	<5	<5	<5	<5
Conductivity	µS/cm	404.8	1357	1520	2440
pH	pH	8	7.41	6.5	8.23
Flow	m3/s	Low	Low	Low	No Flow
Sulphate	mg/L	30	190	260	360
Total Suspended Solids	mg/L	<5	270	<5	<5
Total Dissolved Solids	mg/L	290	960	860	1500
Total Kjeldahl Nitrogen	mg/L	0.9	0.6	0.6	0.9
Total Organic Carbon	mg/L	14	10	11	14
Oil & Grease	mg/L	<5	<2	16	<5
Phosphorous	mg/L	<0.05	0.3	<0.00005	0.06
Copper	mg/L	0.009	0.036	0.005	0.004
Iron	mg/L	0.5	6.2	0.15	0.26
Lead	mg/L	0.003	0.13	<0.001	0.002
Zinc	mg/L	0.064	0.56	0.56	0.04

Table 11.2 Site 150 – Mulwaree River					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	0.014	0.019	0.17	0.16
Biochemical Oxygen Demand	mg/L	<5	<5	9	<5
Conductivity	µS/cm	320.5	1262	979	1789
pH	pH	7.8	8.31	6.79	8.1
Flow	m3/s	Moderate	Moderate	Moderate	Moderate
Sulphate	mg/L	17	90	140	240
Total Suspended Solids	mg/L	6	6	36	140
Total Dissolved Solids	mg/L	210	860	570	1200
Total Kjeldahl Nitrogen	mg/L	1	0.6	0.6	0.4
Total Organic Carbon	mg/L	15	10	12	7
Oil & Grease	mg/L	<5	<5	<5	<5
Phosphorous	mg/L	0.5	<0.01	<0.00005	<0.05
Copper	mg/L	0.006	0.0006	0.005	0.002
Iron	mg/L	1.5	0.25	0.37	0.15
Lead	mg/L	0.001	0.001	0.002	<0.01
Zinc	mg/L	0.043	0.015	0.21	0.078

Table 11.3 First Flush Stormwater Outlet					
Pollutant	**Unit**	**16/11/2022**	**15/02/2023**	**18/05/2023**	**17/08/2023**
Nitrogen (ammonia)	mg/L	<0.005	<0.005	0.11	0.039
Biochemical Oxygen Demand	mg/L	<5	6	11	<5
Conductivity	µS/cm	141.5	117.1	138.1	119.5
pH	pH	7.4	7.84	6.87	8.73
Flow	m3/s	No Flow	No Flow	No Flow	No Flow
Sulphate	mg/L	4	7	18	15
Total Suspended Solids	mg/L	67	26	<5	<5
Total Dissolved Solids	mg/L	110	72	67	71
Total Kjeldahl Nitrogen	mg/L	0.4	0.4	1	0.4
Total Organic Carbon	mg/L	5	8	67	7
Oil & Grease	mg/L	<5	<5	<5	<5
Phosphorous	mg/L	0.05	0.05	0.0001	<0.05
Copper	mg/L	0.007	0.004	0.004	0.004
Iron	mg/L	1.7	0.4	0.39	0.1
Lead	mg/L	0.011	0.001	0.002	<0.01
Zinc	mg/L	0.025	0.008	0.045	0.29

	Table 12.1 Particulates - Deposited Matter (Insoluble Solids) g/m2/mth											
Month	**Sep-22**	**Oct-22**	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**
DG18	1.6	54.6	3.9	2	3.8	2.3	18	1.2	0.6	0.5	0.8	0.4

Figure 1.5.1 Site 115 - Allianoyonyiga Creek

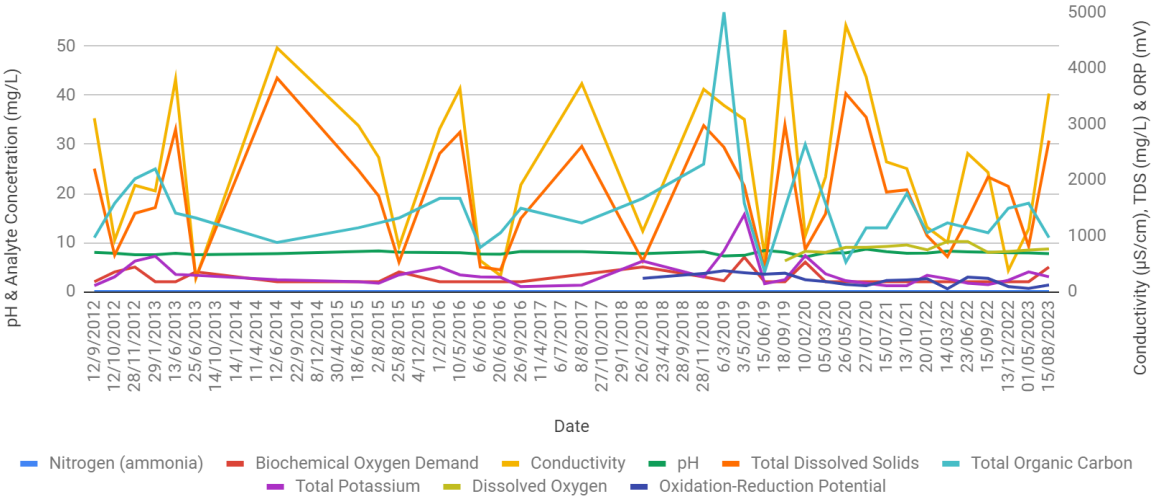


Figure 1.5.3.2 Spring 2

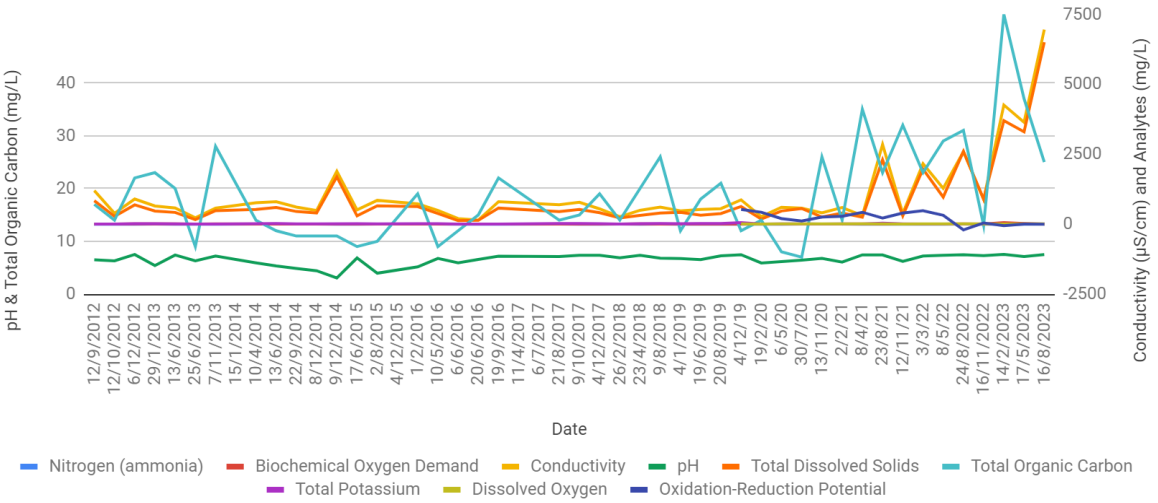


Figure 1.5.3.3 Site 105 - Crisps Creek

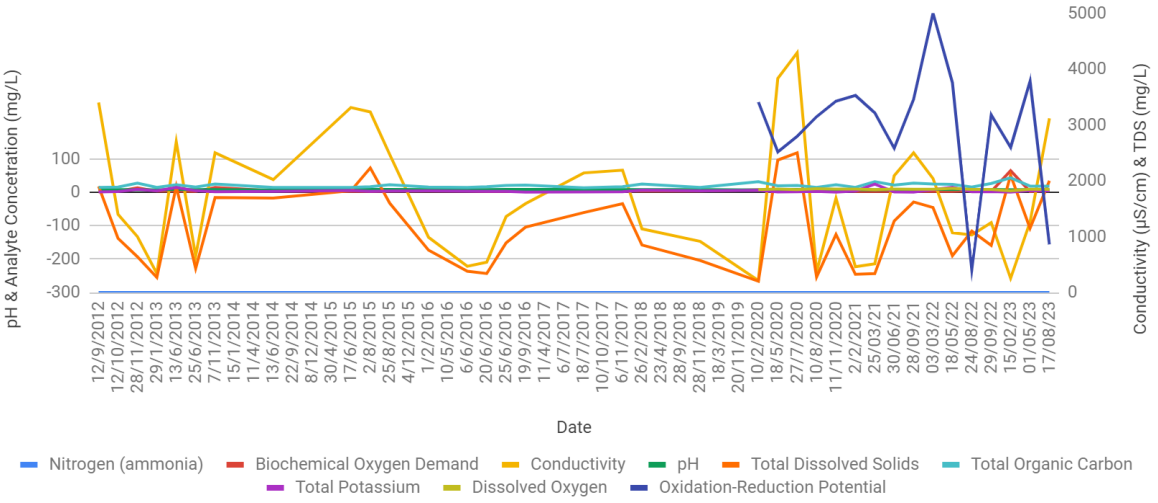


Figure 1.5.3.4 WM200 - Raw Water Dam

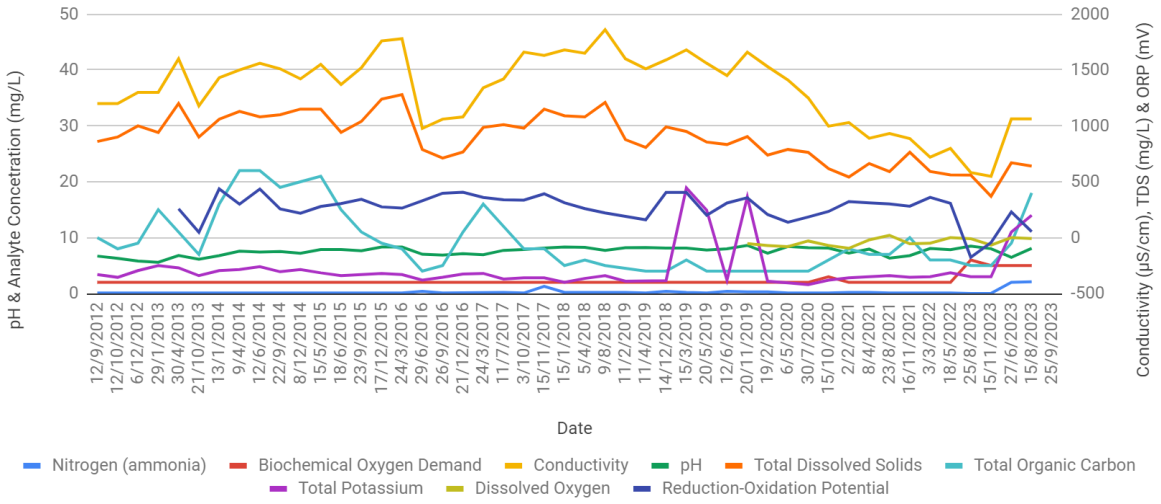


Figure 1.5.3.5 WM201 - Entrance Road Culvert

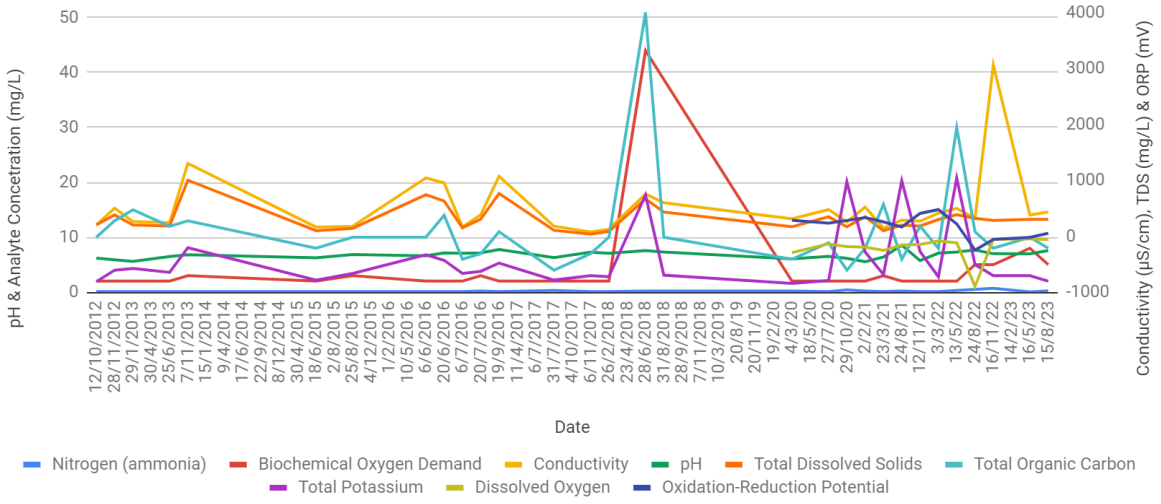


Figure 1.5.3.6 ED3SS - Lagoon 5

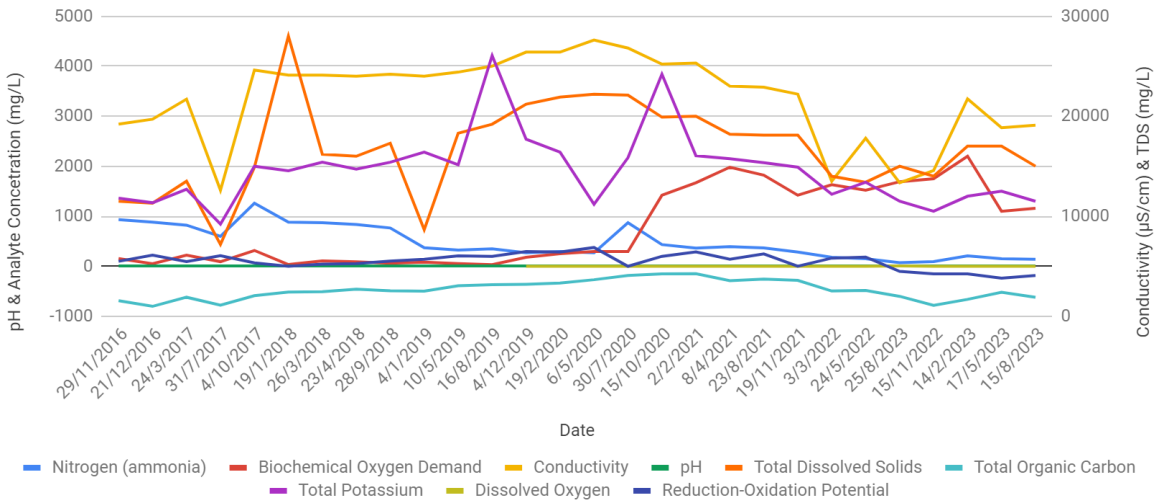


Figure 1.5.3.7 WM203 - ED3N

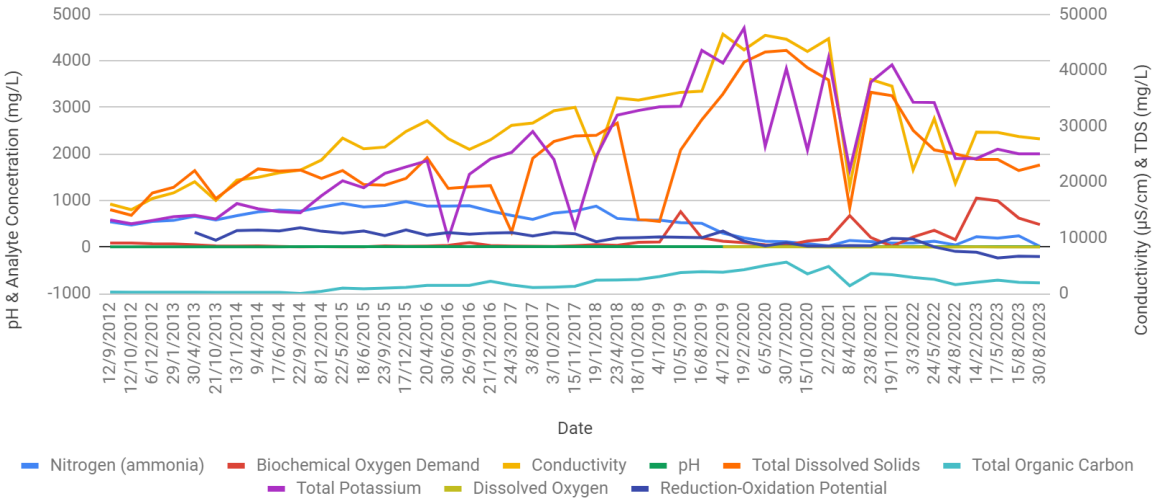


Figure 1.5.3.8 Pond 5

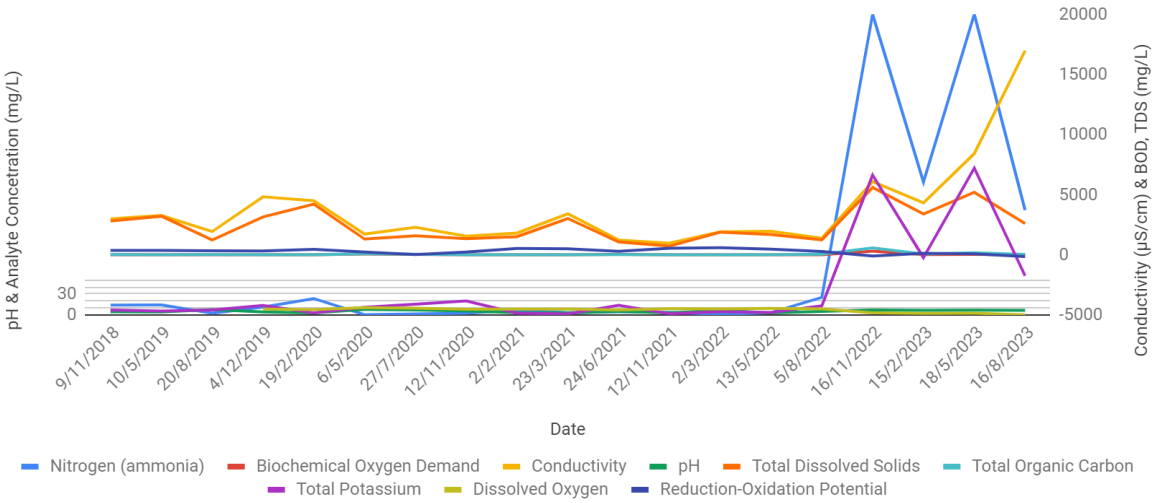


Figure 1.5.3.9 WM202 - ED3S

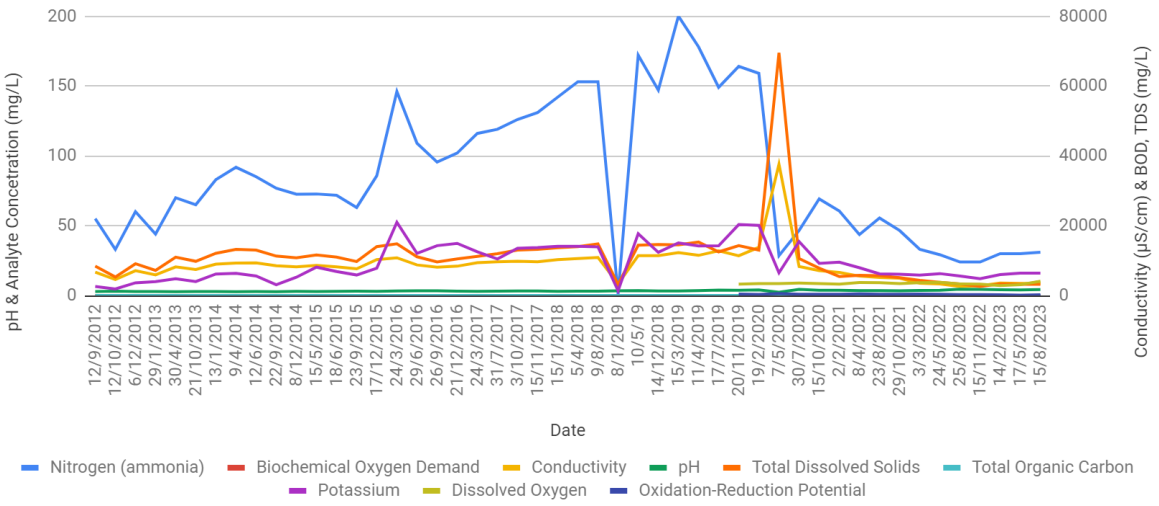


Figure 1.5.3.10 ED1

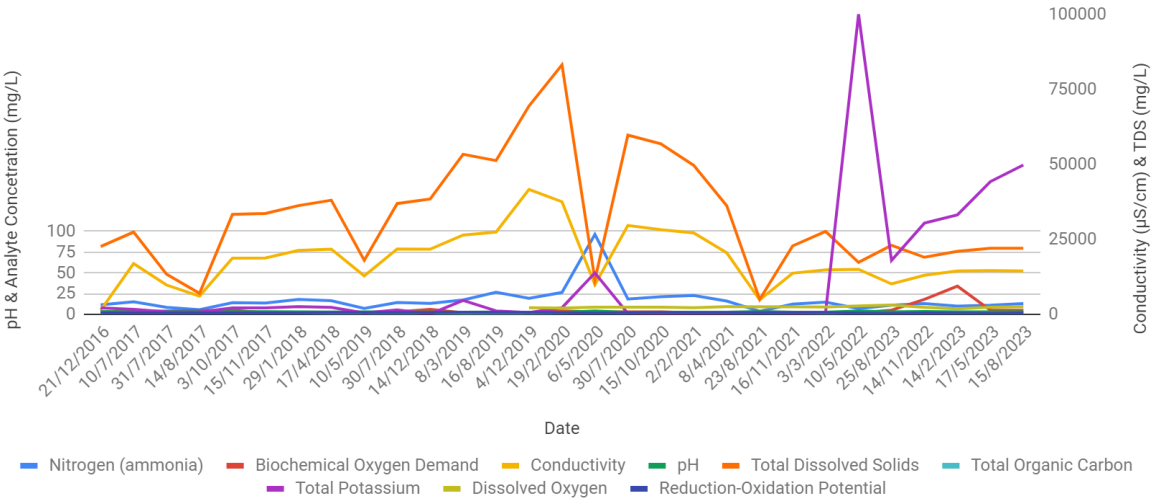


Figure 1.5.3.11 ED1 Coffer Dam #1

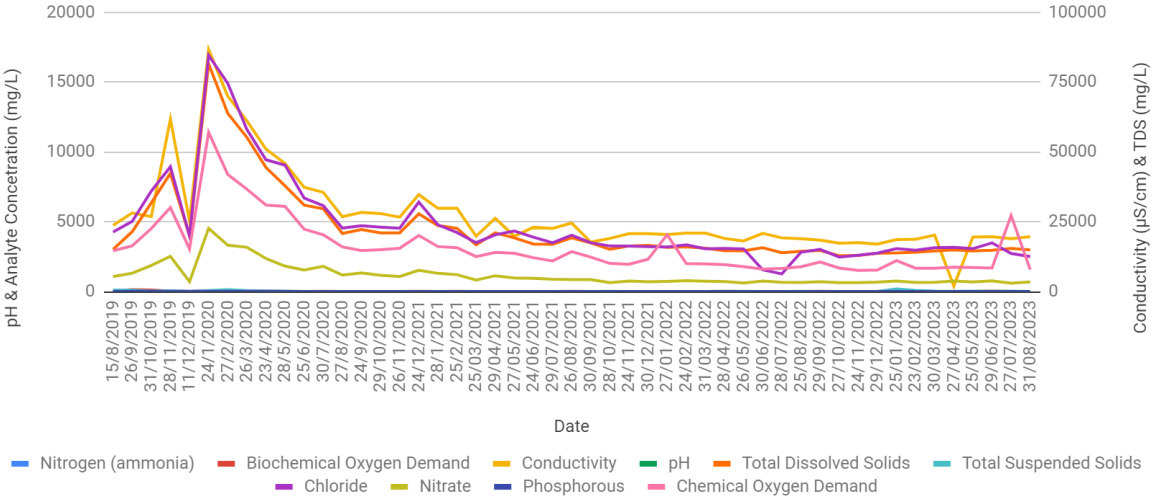


Figure 1.5.3.12 ED1 Coffer Dam #2

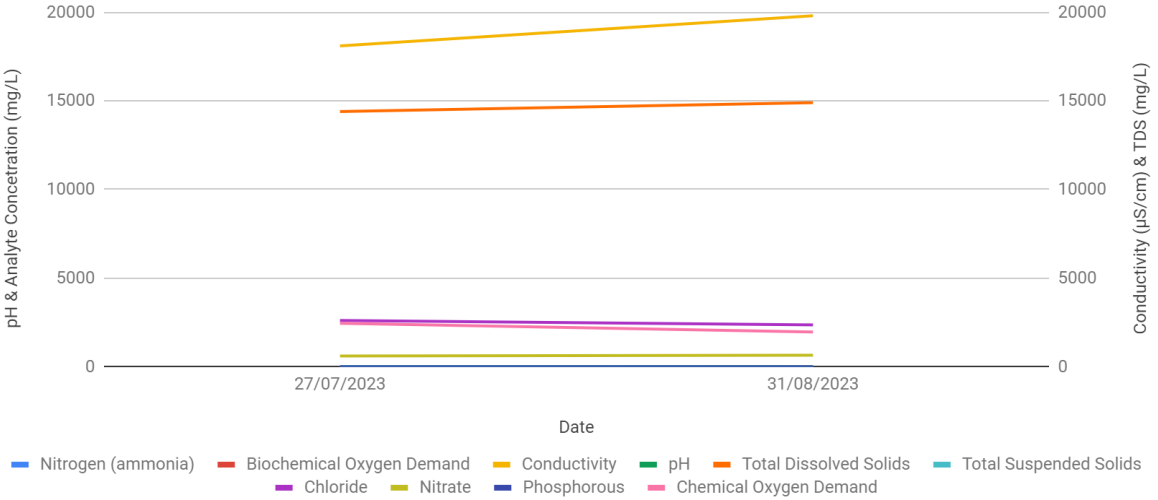


Figure 1.5.5.1 MB1

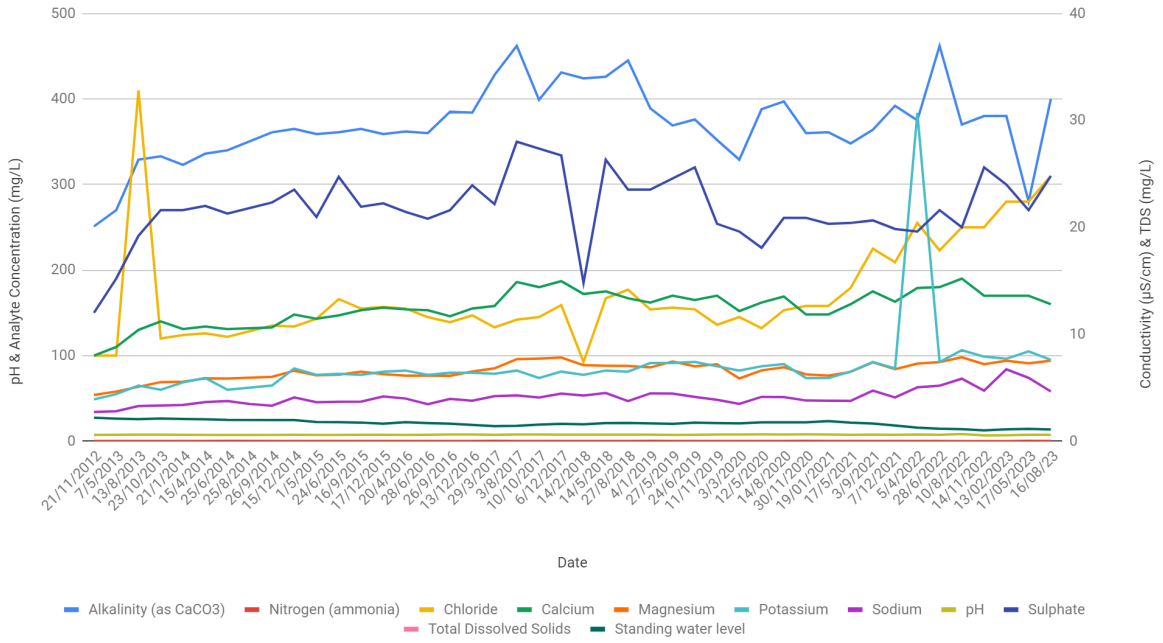


Figure 1.5.5.2 MB2

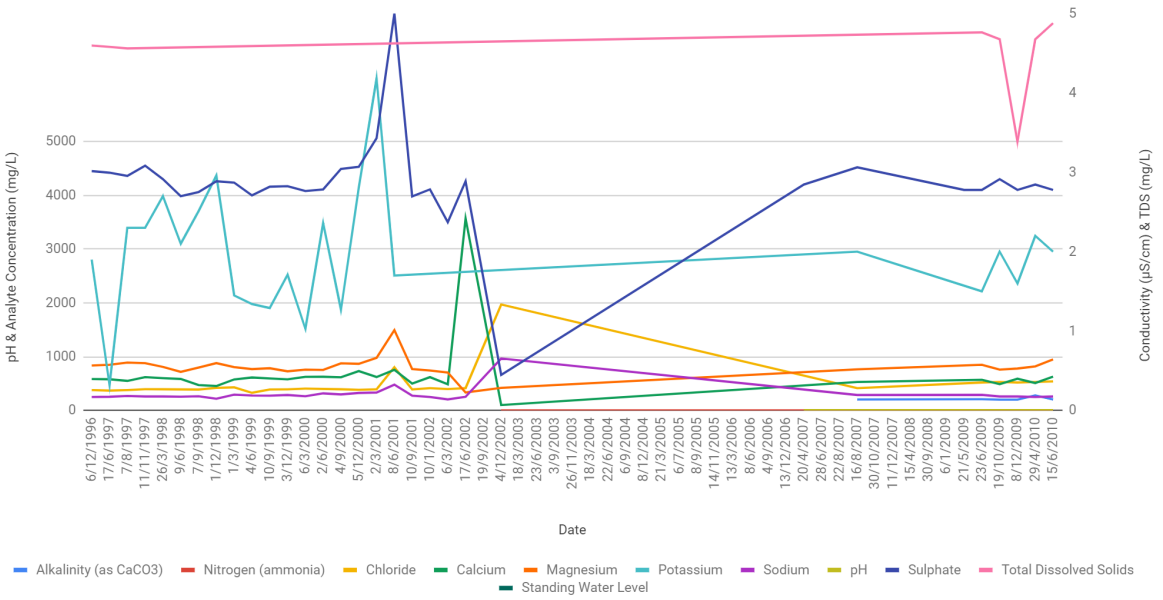


Figure 1.5.5.3 MB3

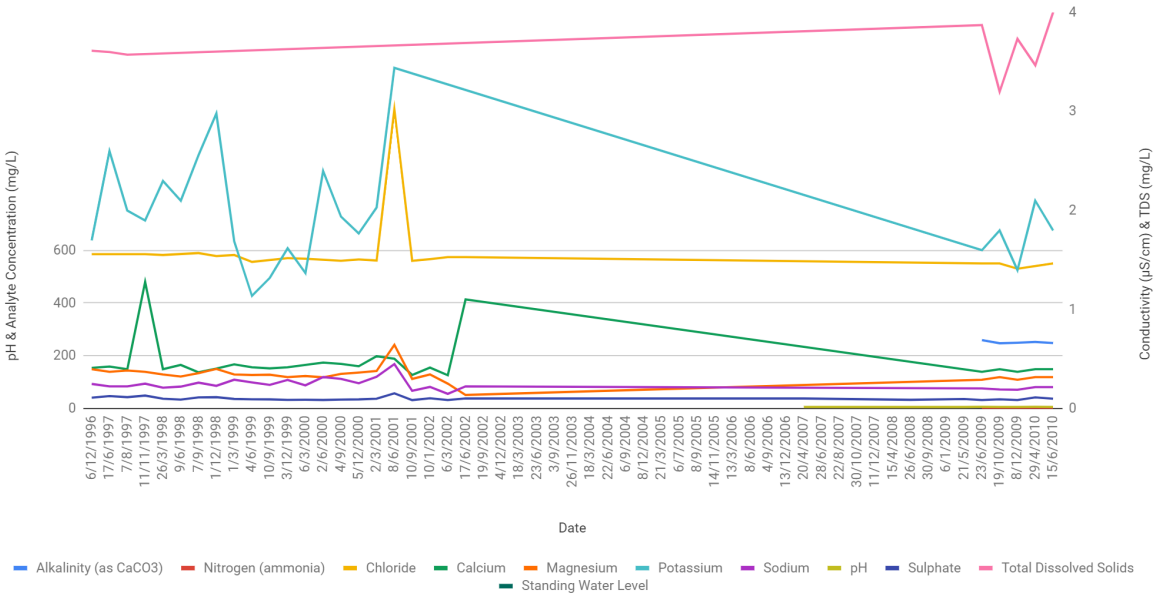


Figure 1.5.5.4 MB4

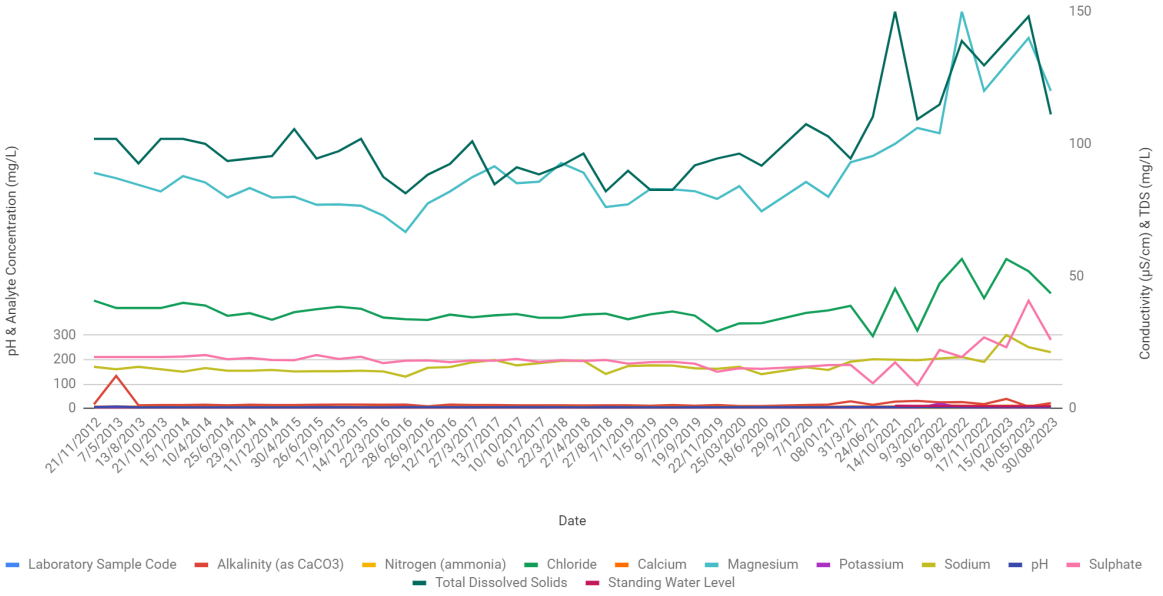


Figure 1.5.5.5 MB6

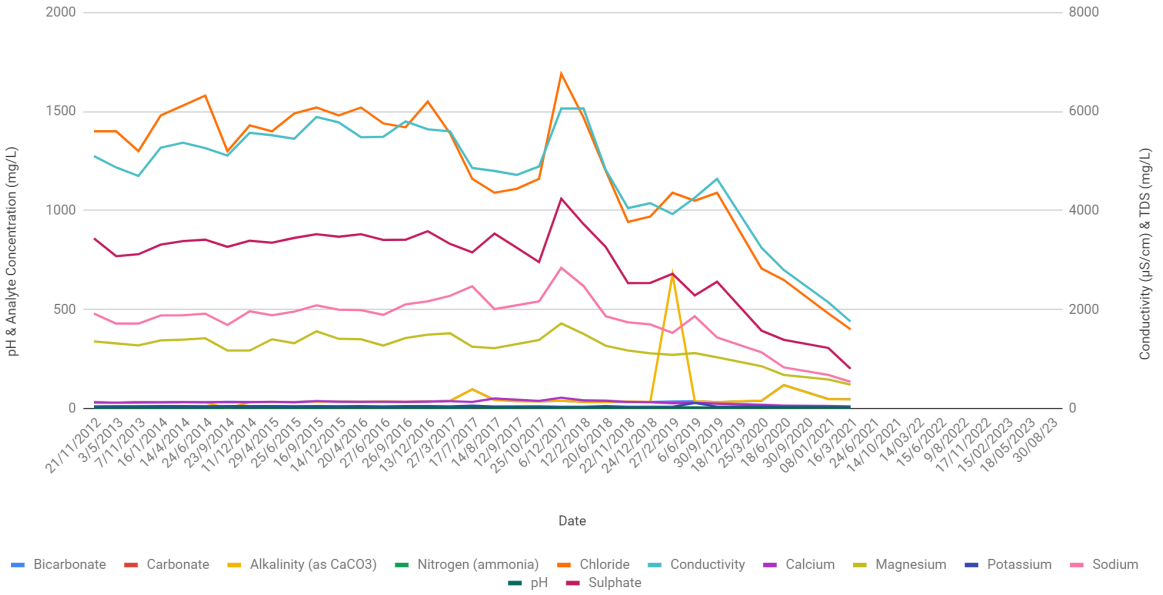


Figure 1.5.5.6 MB7

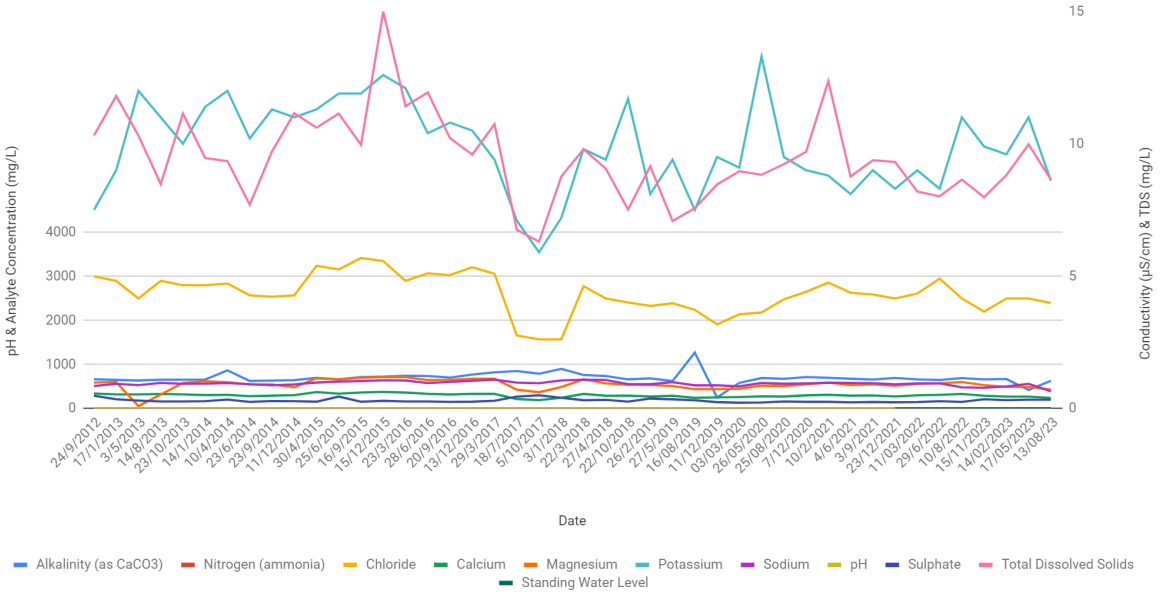


Figure 1.5.5.7 MB10

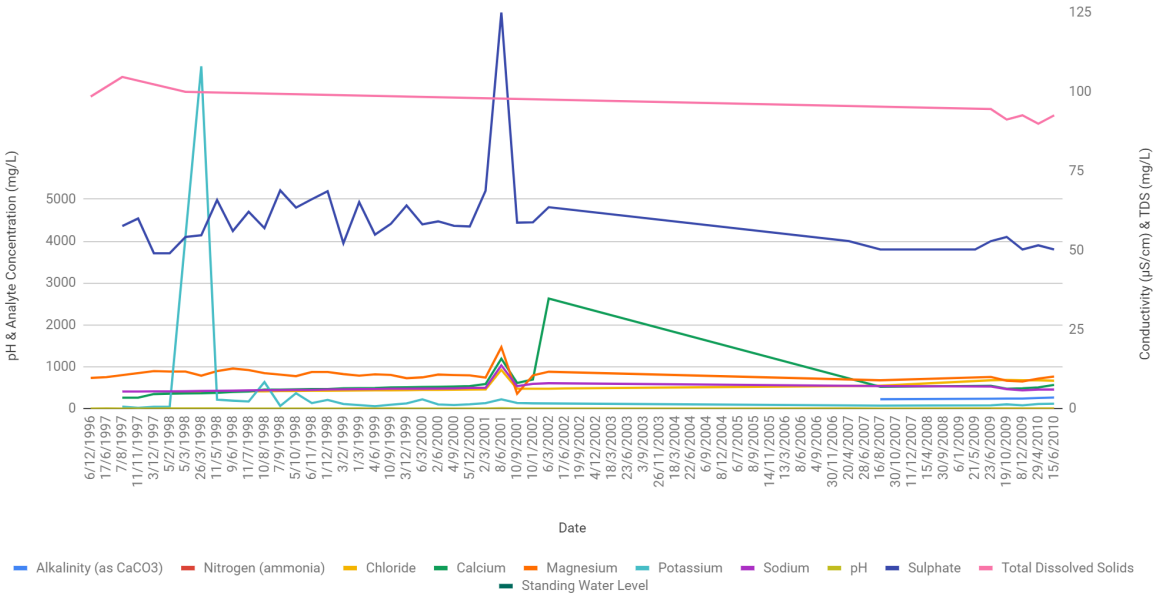


Figure 1.5.5.8 ED3B

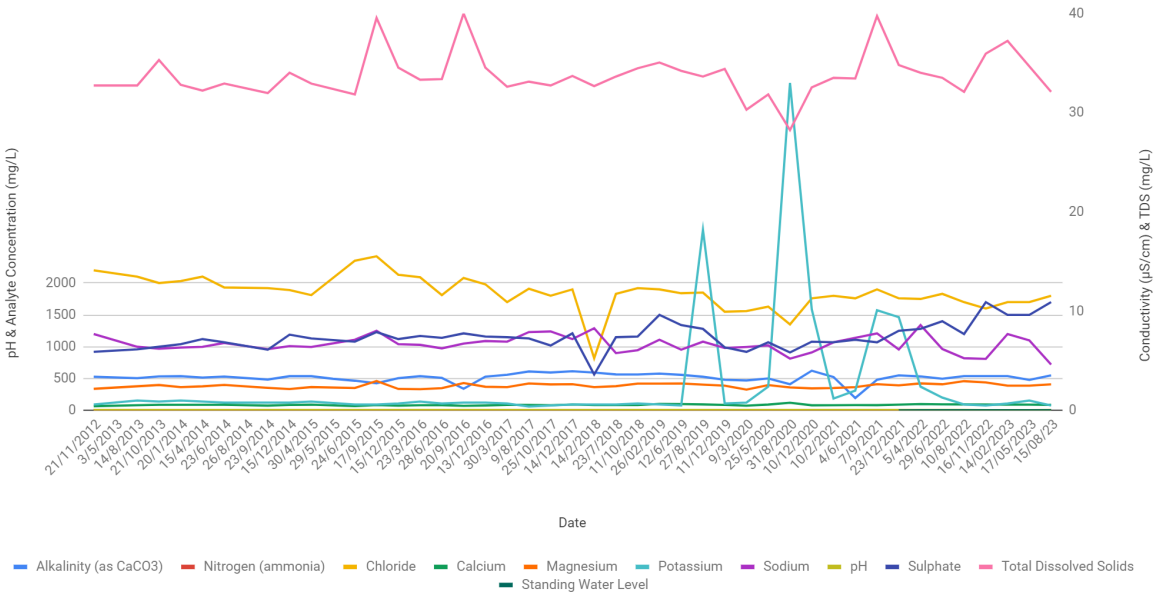


Figure 1.5.5.9 WM1

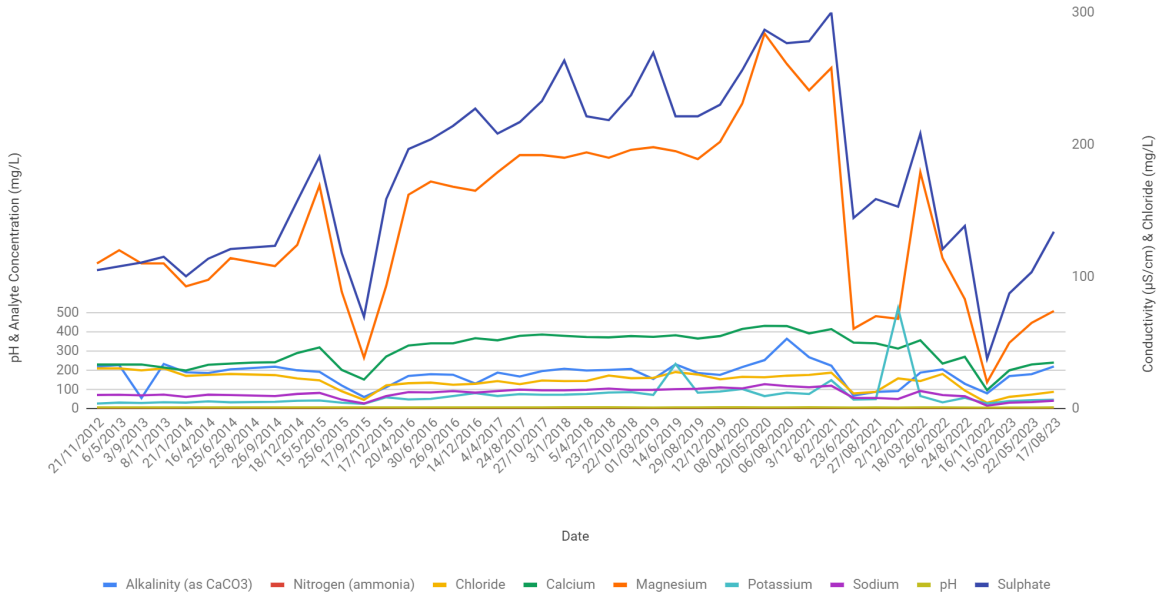


Figure 1.5.5.10 WM5

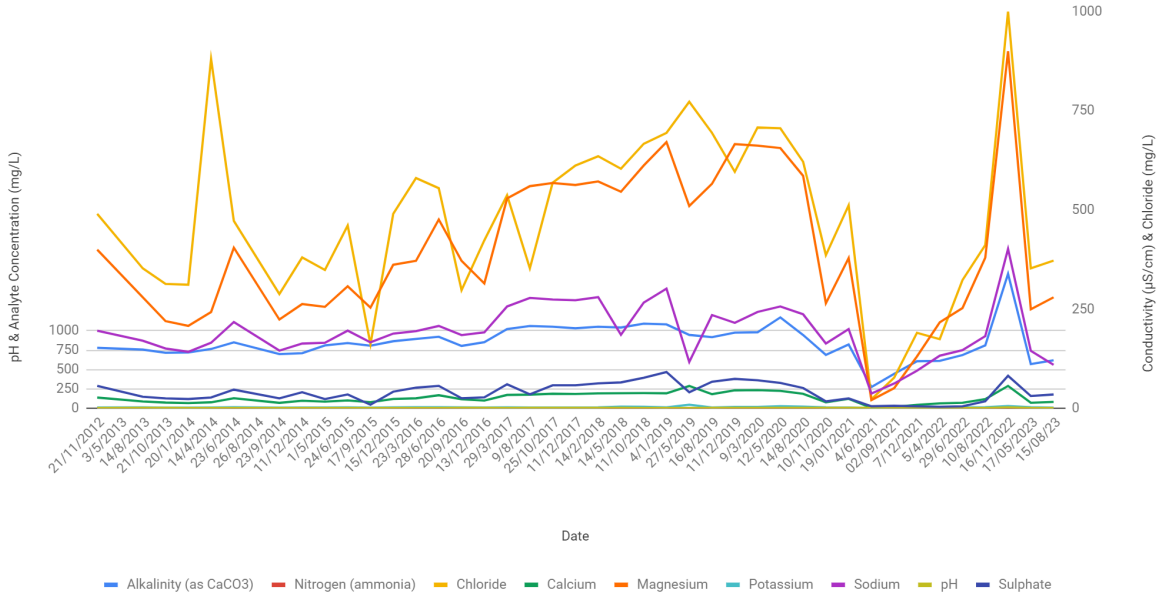


Figure 1.5.5.11 WM6

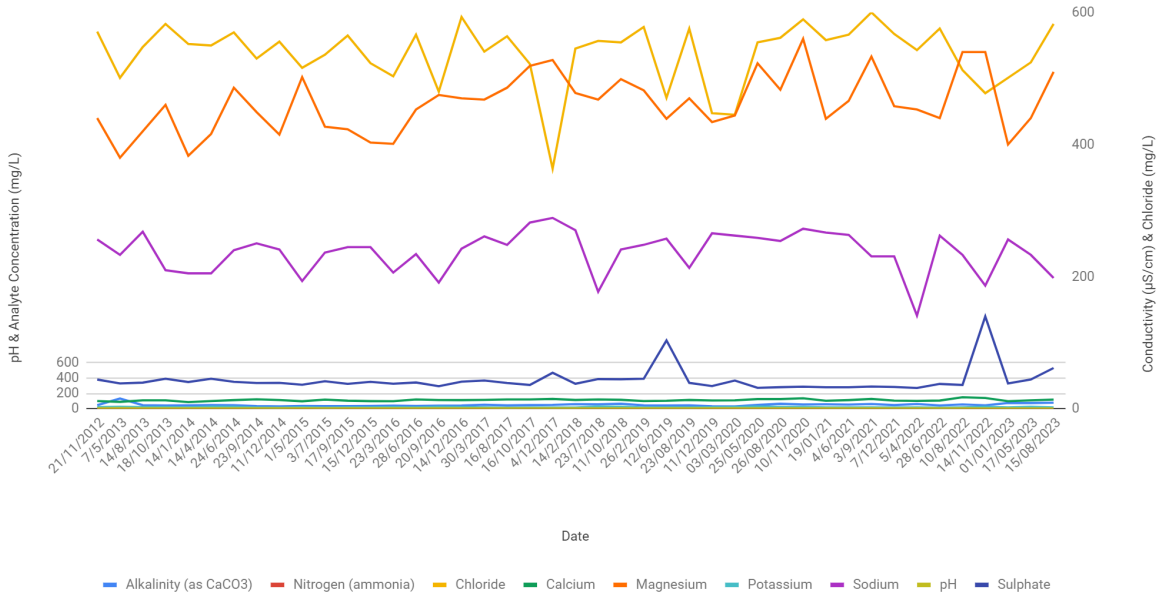


Figure 1.5.5.12 MW8S

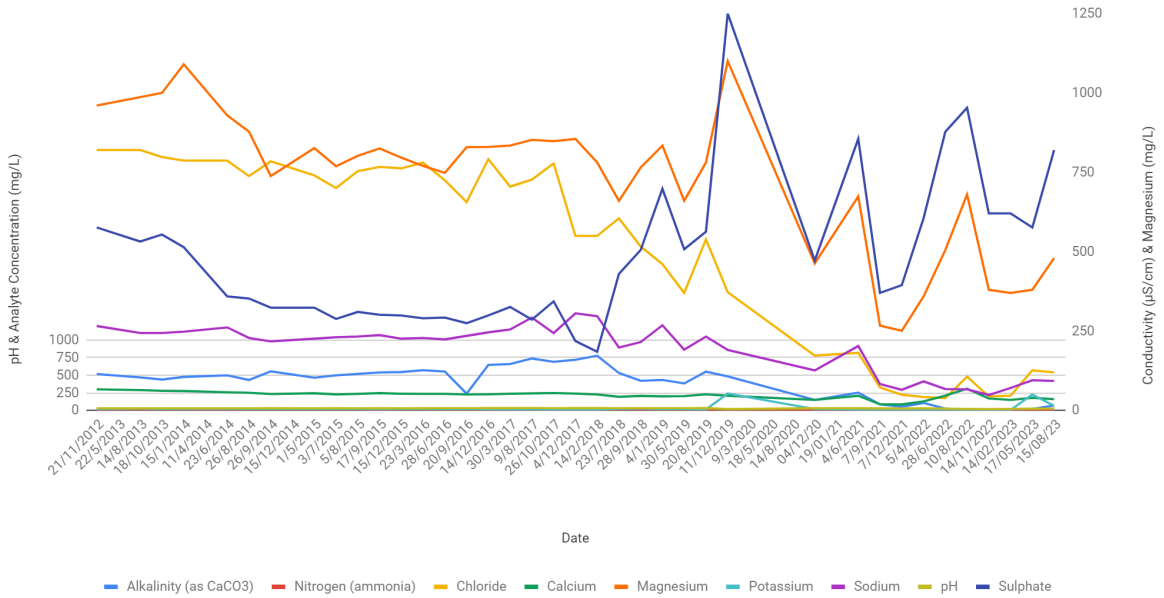


Figure 1.5.5.13 MW8D

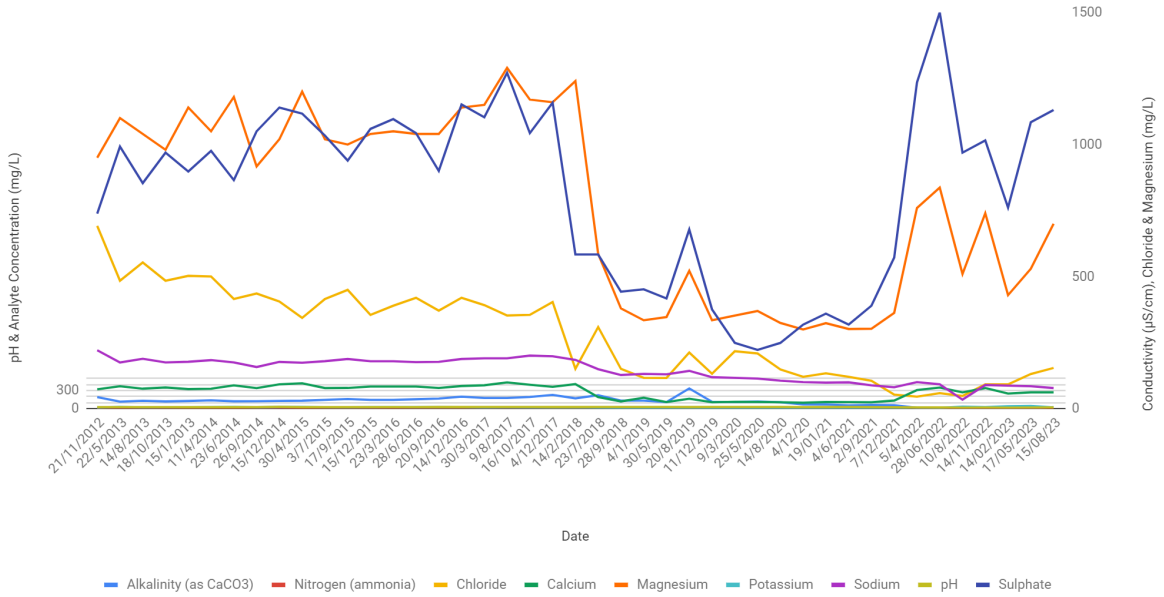


Figure 1.5.5.14 MW9S

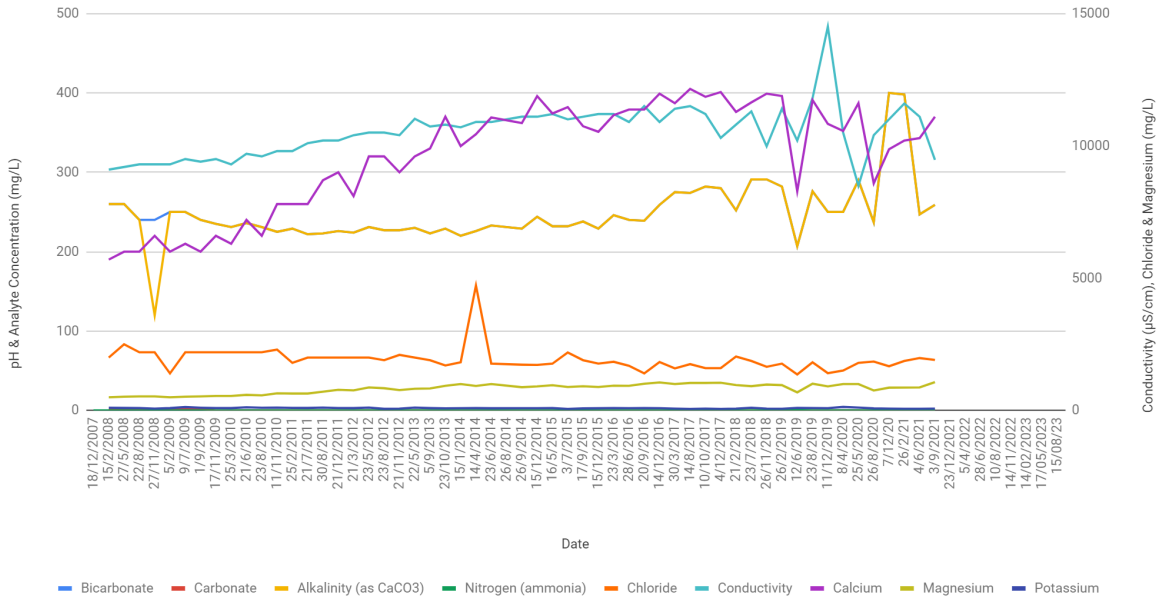


Figure 1.5.5.15 MB28

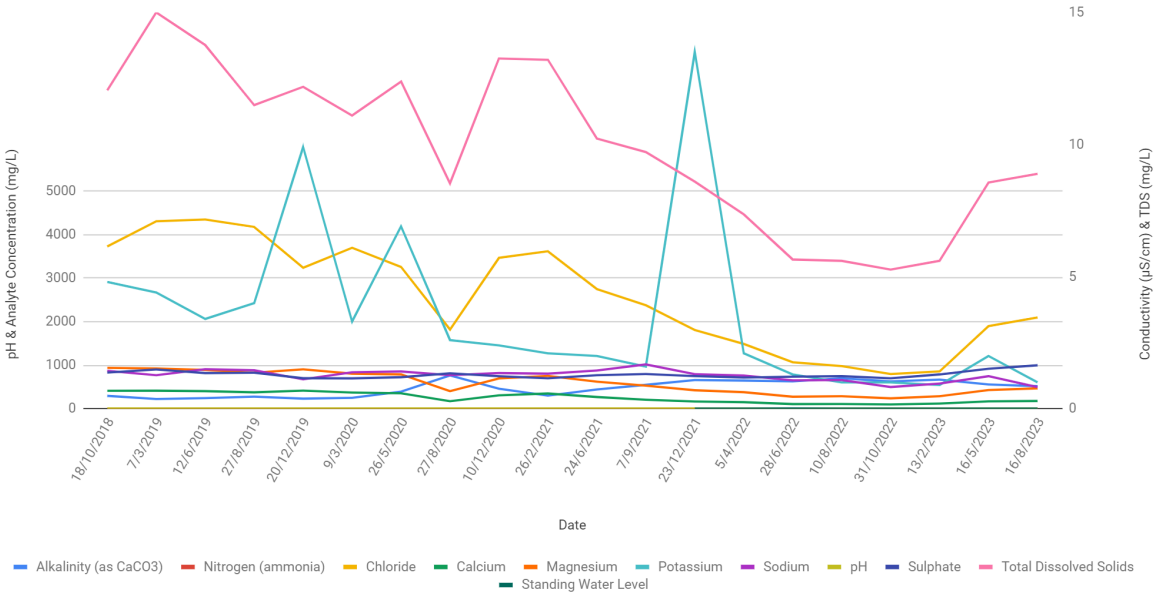


Figure 1.5.5.16 MB33

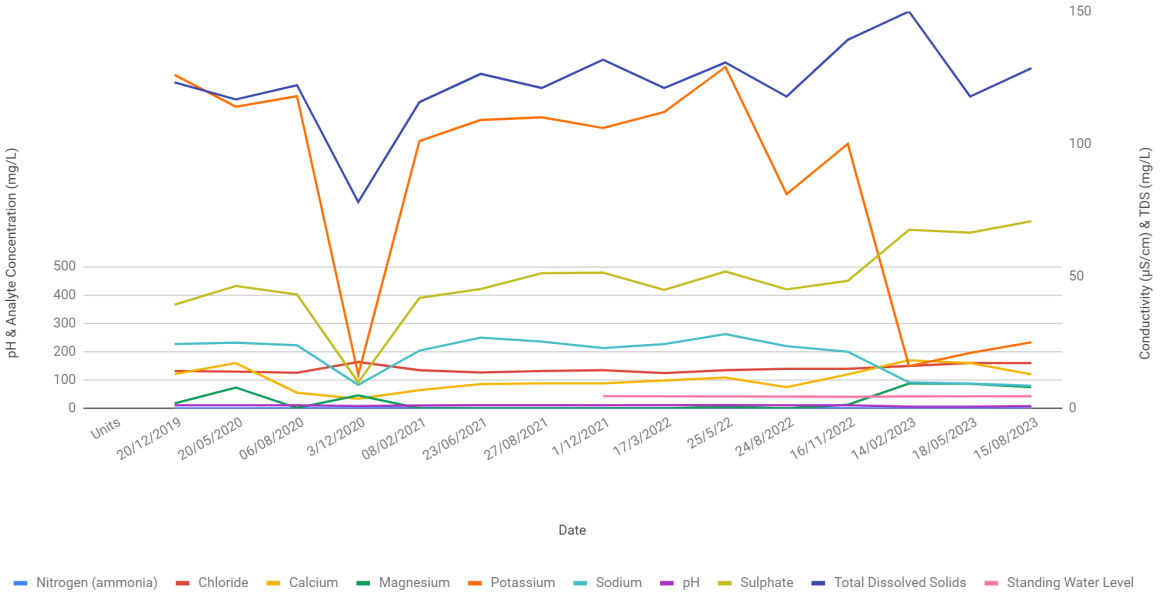


Figure 1.5.5.17 SP2-MW1

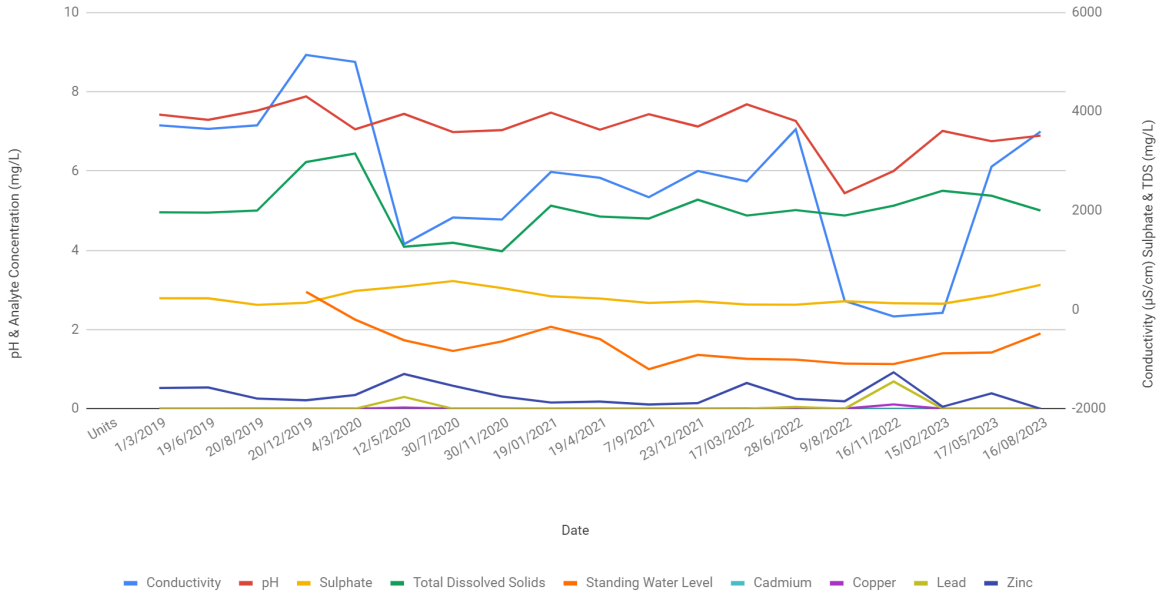


Figure 1.5.5.18 MW FRC-1

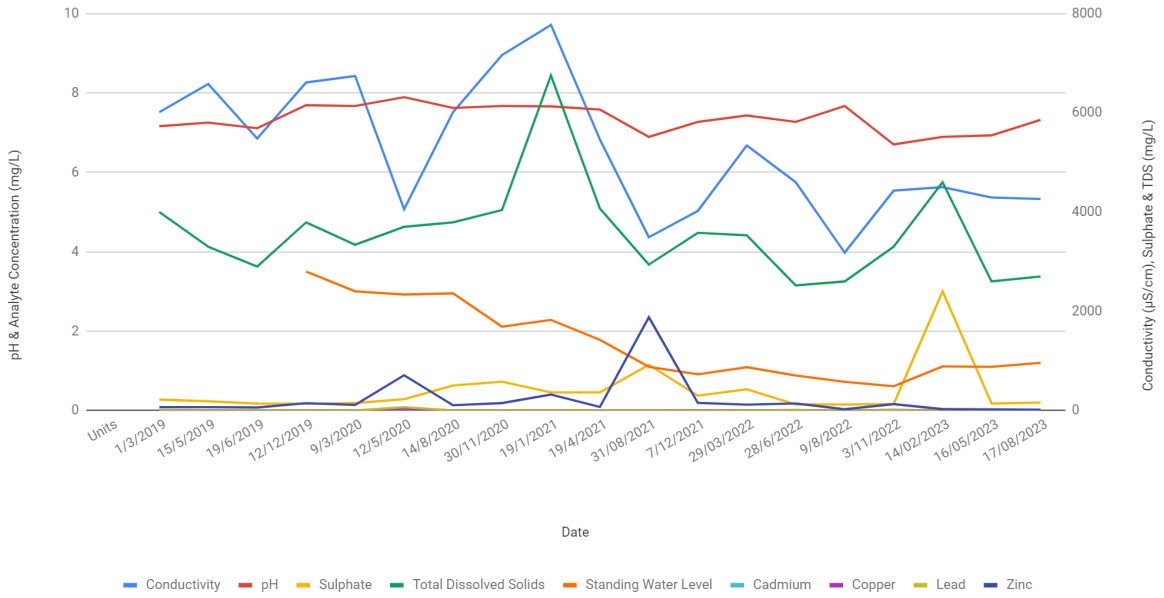


Figure 1.5.5.19 MB10S

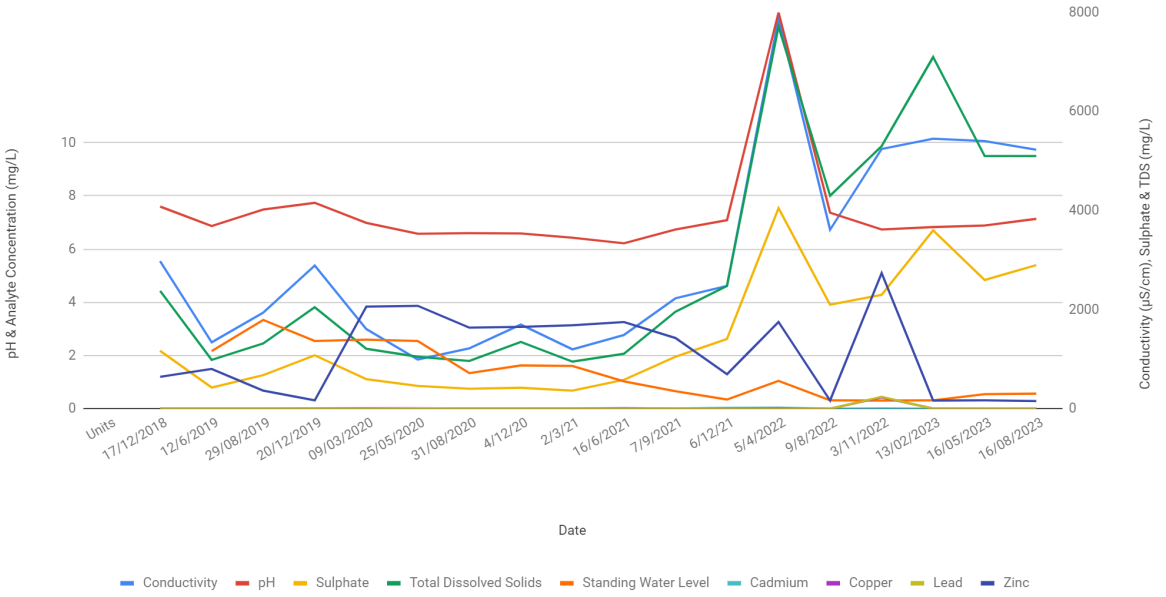


Figure 1.5.5.20 MB34

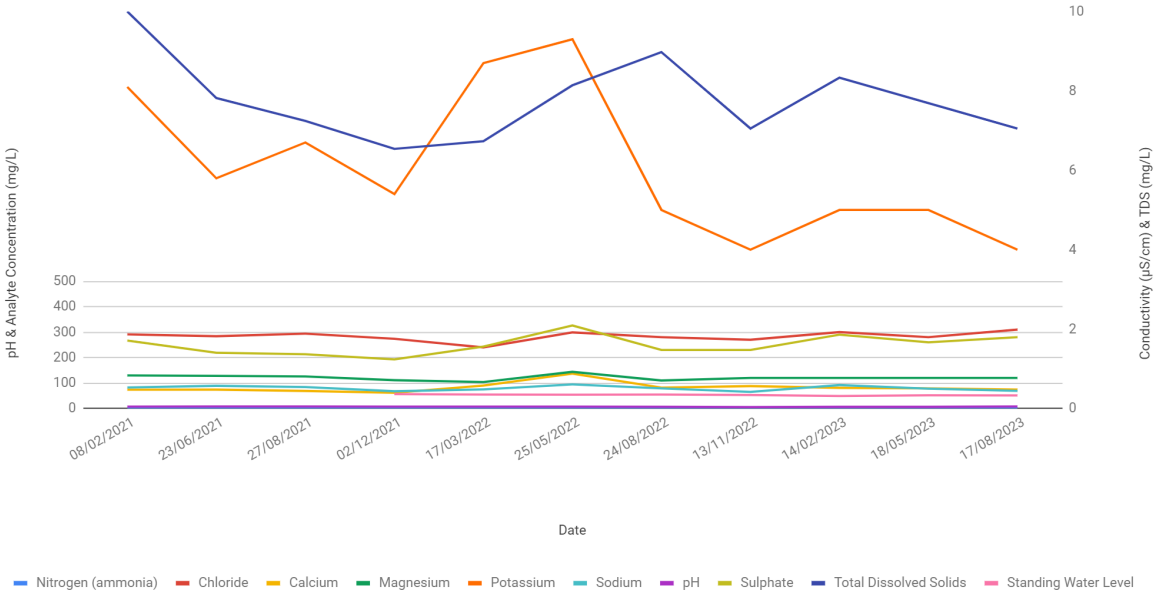


Figure 1.5.5.21 MB35

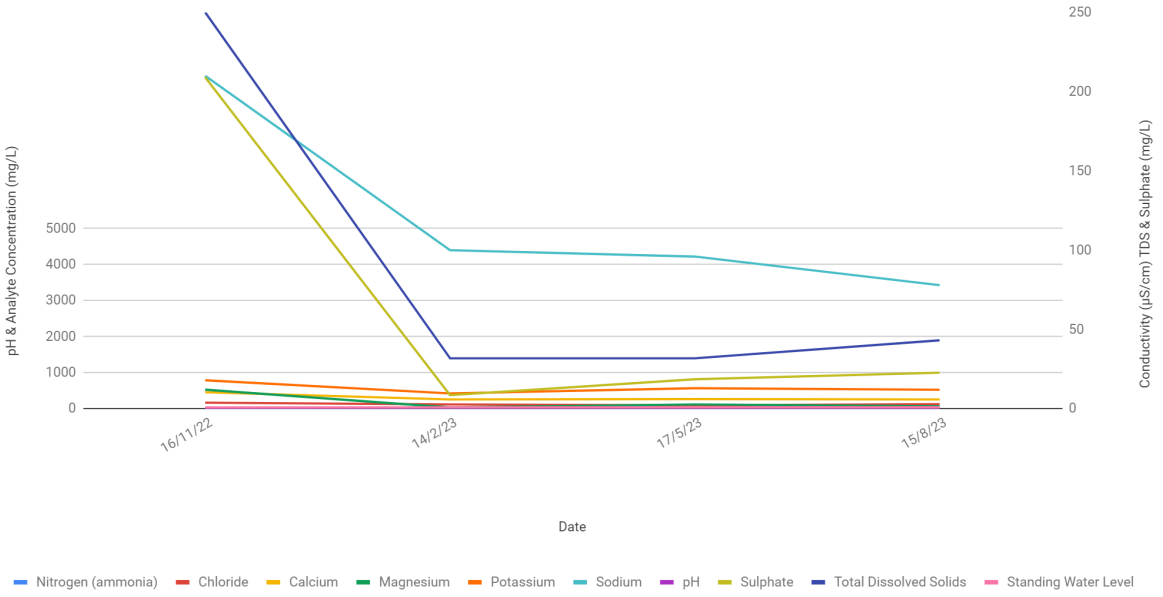


Figure 1.5.4.1 Leachate Dam

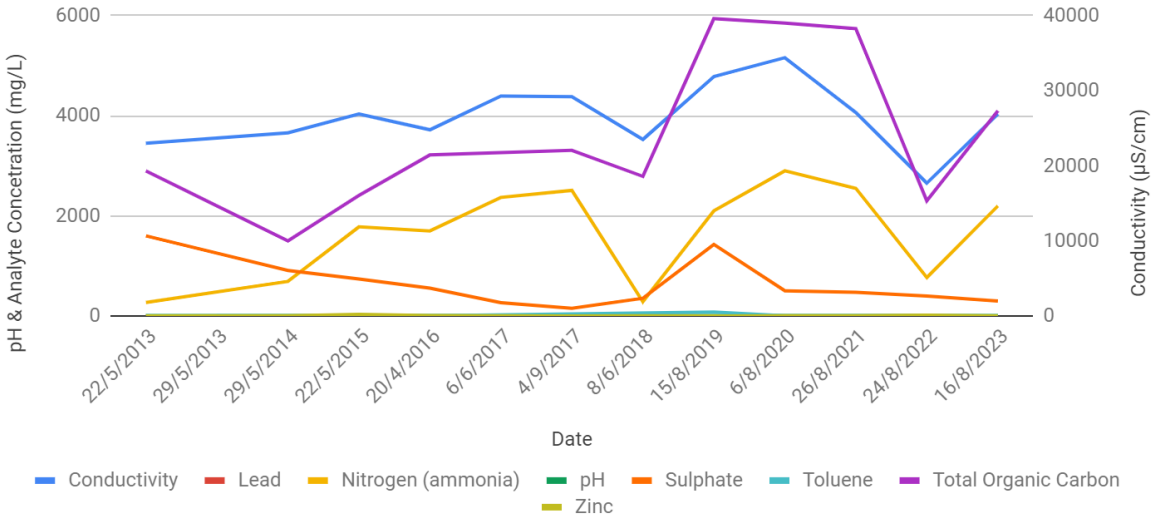


Figure 1.5.4.2 Leachate Recirculation

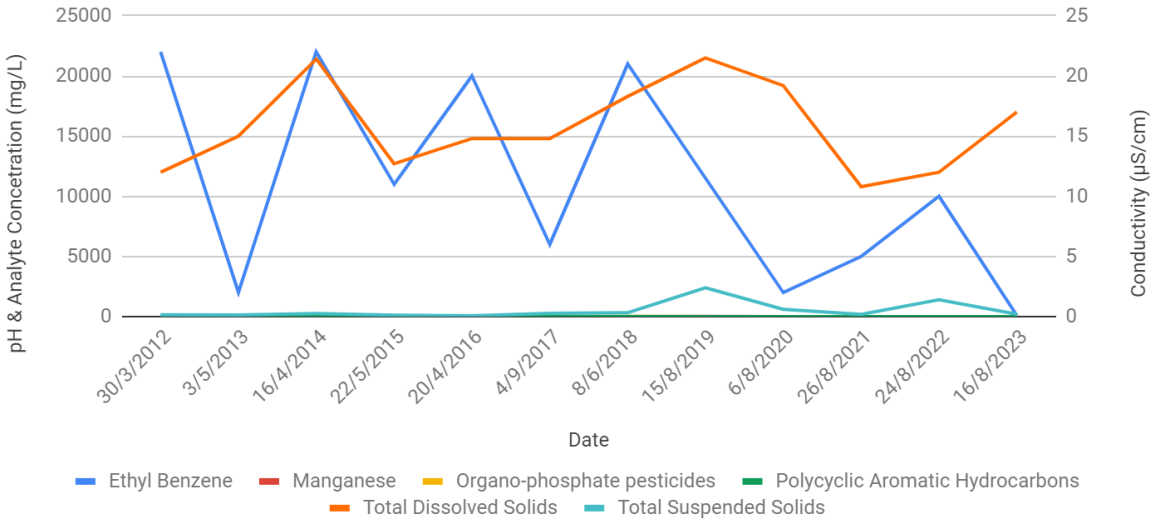


Figure 2.4.1.1 Site 110 - Upstream

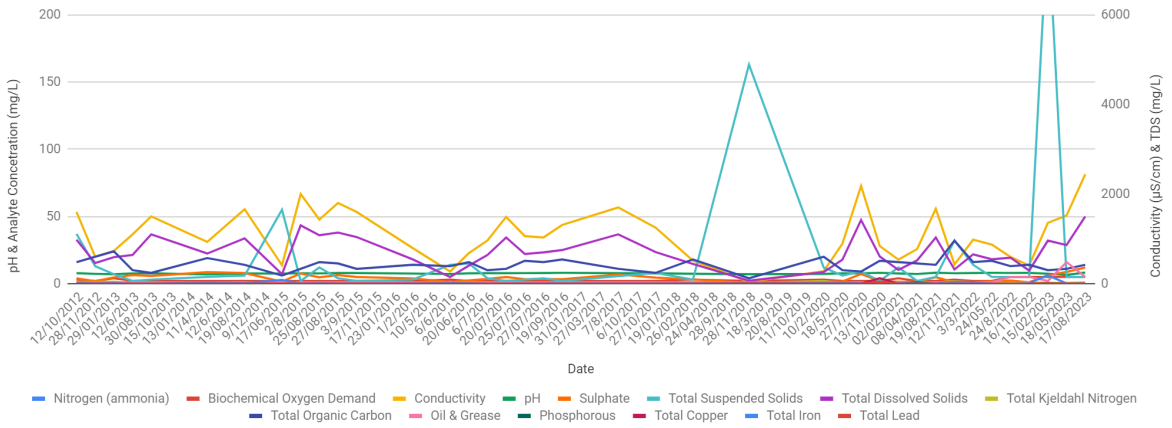


Figure 2.4.1.2 Site 150 - Mulwaree River

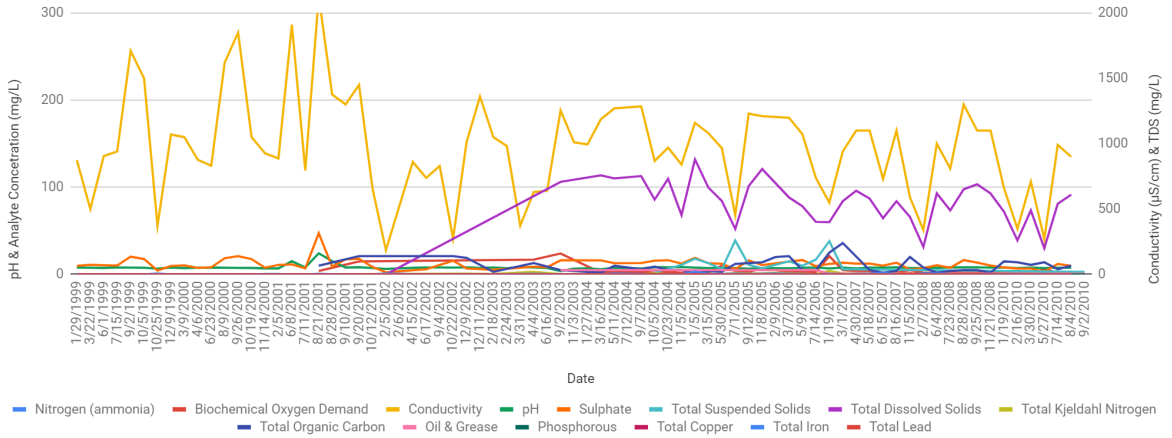
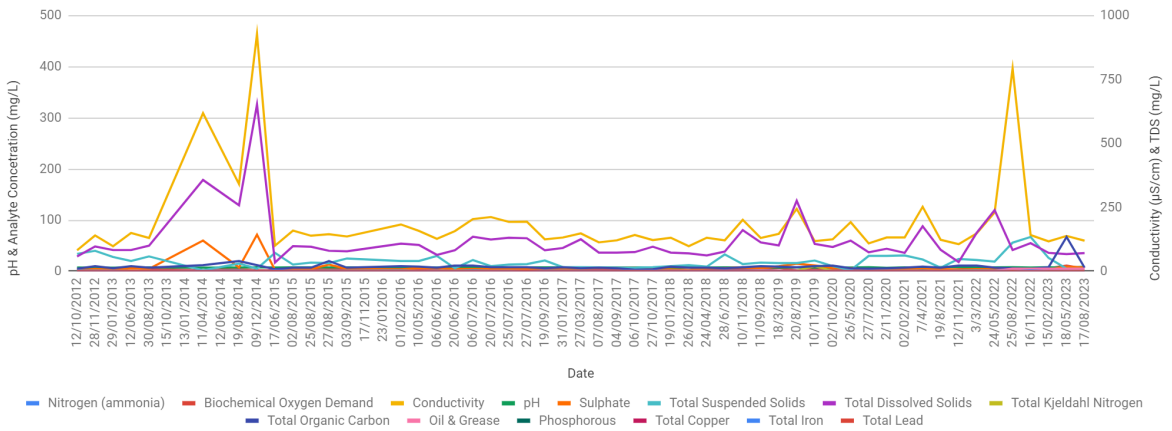


Figure 2.4.1.First Flush - Stormwater Outlet



Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
04/09/2023	2:50:00 pm	EPA Environmental Line	Road Traffic	Bungendore Road, Tarago	The EPA has received a report from a community member alleging a leaking shipping container observed in transit between the Crisps Creek Intermodal Facility and Woodlawn along Bungendore Road at approximately 2:50pm on Monday 4 September 2023. The complainant reported that "the container was leaking liquid from the bottom left corner beneath the door seal in a steady stream as the truck drove up the hill" A copy of an image provided by the reporter is attached to assist with your internal response to the complaint.	Veolia implements a container performance testing programme which includes infrastucture stability and water-tightness testing. The container identified was immediately removed from service for inspection in accordance with this programme, and an investigation into the incident was carried out.
26/08/2023	7:45:00 am	EPA Environmental Line	Odour	Bungendore Road, Tarago	Complainant reported a bad odour coming from the Veolia landfill.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/08/2023	1:00:00 am	Community Feedback Line	Odour	Western Leg Road, Tarago	Complainant reported a faint smell wafting in and out of their house throughout the very early hours of the morning.	As odour report was recieved by Veolia on 25/09/2023, an assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/08/2023	7:50:00 am	EPA Environmental Line	Odour	Bungendore Road, Tarago	Complainant reported a bad odour coming from Veolia landfill.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/08/2023	7:30:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported a horrendous odour of gassy, rotting garbage that is consistent with the smell of Veolia's landfill. The odour was reported as being so bad the complainant wretched immediately on leaving the house and was then unable to go outside to complete farm work. The weather was reported as being 3.50C with a 5km/h westerly wind.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/08/2023	2:10:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported a very strong, dense, rotten egg sulphur smell from Veolia Tarago. The odour was detected at 2:10 AM which woke the complainant up and the odour was detected again at 8:00 AM. The complainant advised that the odour has been occurring 4-5 nights every week.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/08/2023	8:28:00 am	EPA Environmental Line	Odour	Mooneys Road, Currawang	Complainant reported a rotten egg odour which was strong and unpleasant. Complainant reported the odour was constant and very offensive and they were unable to remain in the area. There was no wind, and the weather was reported as clear.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/08/2023	1:29:00 pm	Community Feedback Line	Odour	Taylors Creek Rd, Tarago NSW 2580	Time Of Event: 12:00 Location of Incident: 156 Taylors Creek Rd, Tarago NSW 2580 Odour Intensity Scale: 2 Common Odour Descriptors: Common odour Weather Conditions, Strength & Temperature: Overcast, foggy and dribbler raining. Description of Incident(If Odour please get the duration): 1/2hr	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/08/2023	12:00:00 pm	EPA Environmental Line	Odour	Tarago Town	Complainant reported a sulphur type odour detected twice in the last week and stated to regularly smell this odour when driving into or through Tarago township.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
13/08/2023	7:58:00 am	Community Feedback Line	Odour	Willow Glen Road, Lower Boro	Odour Intensity Scale: 4, Common Odour Descriptors: Rubbish/Garbage Weather Conditions, Strength & Temperature: Calm a little foggy Mild Description of Incident(If Odour please get the duration): 1/2hr	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/08/2023	9:45:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported an odour from Woodlawn precinct which was extremely strong and at times overbearing. Complainant reported the odour is worse in the morning and evening and stated it has the character of really off smelling rubbish.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/08/2023	9:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported a pungent odour with a strong rubbish character. Wind was reported as light and strength of the odour was reported as distinct.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/08/2023	10:55:00 pm	EPA Environmental Line	Odour	Corner of Tarago and Collector Roads	Complainant reported strong odour detected as they were driving past the intersection. The odour was rated as very strong with character of stale, rotting garbage. The weather was reported as foggy and no wind.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/08/2023	4:00:00 pm	EPA Environmental Line	Odour	Goulburn Street, Tarago	Complainant reported a very intense odour affecting them in their home. Reported as typical of the odour associated with the concentrated leachate, which is like the putrid fluid emitted by skunks. No breeze was reported at the time of the incident.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/08/2023	8:40:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported a constant odour with character described as strong and pungent rubbish smell. The strength was described as distinct with no wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/08/2023	8:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported odour as they arrived at the primary school and could smell it after getting back in the car and driving along Tarago Road for approximately 8km. The odour was reported as being like rotten garbage and was rated as very strong. The odour sat in the back of complainant's throat and nose felt as though it was burning. The odour was concerning to the complainant's children who were made uncomfortable by the odour. The weather was reported as fine and sunny with no wind.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/08/2023	8:00:00 am	EPA Environmental Line	Odour	Tarago town	Complainant reported an odour in Tarago town whilst at work. The odour was reported as being worse than the smell of a carcass.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/08/2023	9:30:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Complainant reported odour detected while outside on their property which lasted for approximately three hours. Character of odour was reported as rotten eggs, manure and compost with distinct strength. Wind was reported as light north-westerly with the the pungent odour coming with it.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/08/2023	8:24:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported a bad smell coming from Veolia Woodlawn and described it as a dead rat, toxic rubbish odour. Complainant reported the odour to have been occurring for months.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
03/08/2023	4:15:00 pm	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported odour coming from Veolia Woodlawn to be stinking up their residence. Complainant reported that outside was like a “fart soup” and the stench is worse at their residence than in Tarago. Reported that it is an ongoing problem. The weather was 120C perfectly still and no wind.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/07/2023	6:59:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported to have been woken by a smell of garbage this morning. A distinctive smell of decomposing garbage that made them not want to go outside. Weather was reported as having a very light breeze and 80C. Complainant also smelt the odour at a similar time yesterday.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/07/2023	6:49:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant reported that the Woodlawn precinct was stinking up a storm this morning and was so bad they were unable to go outside. The odour was reported as having rotten meaty character and was making complainant wanting to vomit. Weather was reported as being still and 90C. Complainant reported the odour gives them a headache and makes them retch.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/07/2023	5:46:00 pm	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by odour and advised it has been ongoing for almost two weeks. Complainant reported that the odour is having a significant impact on their lives, particularly sleep disturbances.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/07/2023	3:15:00 pm	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by a constant odour with a distinct strength and organic character.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/07/2023	7:00:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported offensive odour that has a strong vomit and rotting garbage smell from Veolia Tarago since 7:00 AM. The odour is occurring intermittently due to the wind direction. Wind direction W to NW. The odour was occurring intermittently all day yesterday as well.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/07/2023	4:40:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by odour coming from Woodlawn precinct. Odour was reported as being strong, constant and with organic character.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/07/2023	10:30:00 pm	EPA Environmental Line	Odour	Lumley Road Tarago	Complainant reported odour whilst going to get coffee at local cafe which persisted for approximately 20 minutes. Character of odour described as rotten eggs, manure and compost. Wind was reported as a light westerly breeze. Complainant reported that the odour was strong and close to making them vomit.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/07/2023	10:54:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported to be affected by a gas-like offensive odour in the air coming from Veolia Tarago Bioreactor.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
26/07/2023	5:30:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be impacted by odour coming from Woodlawn precinct. Complainant reports to have suffered sleep disturbance due to odour entering the house and the severity of the stench. Air purifiers are used in every room but offers little reprieve. The air conditioner does help with abating the odour but is not an economically viable solution. Complainant reports the odours are impacting their wellbeing and mental health. Morning walks and outdoor activities cannot occur as it is unbearable to be outside. Complainant reports to have been woken by the odour every day for the past week and the odour causes severe nausea and vomiting.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/07/2023	5:00:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported excessive rotting garbage odour coming from the Veolia Eco- precinct site in Collector Road. Odour is entering complainant's home. Complainant advised that this is an ongoing issue.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/07/2023	10:30:00 am	E-mail	Odour	Lumley Road, Tarago Cafe	Duration: At least 20 minutes Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 4/5 Wind direction: light westerly breeze The odour was detected while going to get a coffee from the local Cafe. It was a very strong odour and was close to making me want to vomit.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/07/2023	7:45:00 am	EPA Environmental Line	Odour	Corner of Lumley and Braidwood Roads, Tarago	Complainant reported to be affected by odour whilst in Tarago township. The odour was reported as being very strong and made the kids feel nauseous. The weather was reported as -30C, foggy and very still.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/07/2023	6:00:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by a constant odour which was of organic character and very strong. Complainant reports the odour causes severe nausea and headaches.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/07/2023	7:30:00 am	EPA Environmental Line	Odour	Tarago Road, Tarago	Complainant reported to be affected by odour on three occasions on this day. At 7:30 AM complainant reported a strong odour which prevented them from their morning jog. At 9:30 AM complainant reported odour had increased in strength to very strong and was still unable to exercise outside. At 9:30 PM complainant reported odour as being very strong but had dissipated in between the times reported.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/07/2023	6:20:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by a constant odour which was of organic character and very strong. Complainant reports to be experiencing anxiety about being woken by the stench.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
23/07/2023	8:40:00 am	E-mail	Odour	Braidwood Road and Lumley Road, Tarago	Duration: At least 60 minutes Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: mostly calm The odour was detected while driving along Braidwood Road and was strongest near the Showgrounds. It was detected consistently while driving around the town, and while at two local businesses.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/07/2023	8:40:00 am	EPA Environmental Line	Odour	Corner of Braidwood Road and Lumley Road Tarago	Complainant reported odour which persisted for approximately 60 minutes. Character of the odour was reported as being rotten eggs, manure and compost. Odour strength was reported as weak and wind direction was calm. The odour was detected whilst driving along Braidwood Road near the showground and at two local businesses.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/07/2023	7:00:00 am	EPA Environmental Line	Odour	Tarago Road, Tarago	Complainant reported odour coming from Woodlawn precinct which prevented them from going on their morning run. The odour was reported as the usual strong, rotting garbage smell. The weather was still, minus 20C and clear skies.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/07/2023	5:30:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by a constant odour which was of organic character and very strong. Complainant reports there is no reprieve from the stench inside and they cannot even think about going outside.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/07/2023	7:45:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	Complainant reported to be affected by a constant odour which was of organic character and very strong. Complainant reports to be suffering from sleep disturbance due to the odour entering their house.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
21/07/2023	5:30:00 pm	EPA Environmental Line	Odour	Cullulla Road Tarago	Complainant reported an intermittent but persisted odour with character of strong garbage. Weather conditions were reported as patchy cloud with a slight breeze. 23 July 2023 8:40 AM Corner of Braidwood Road and Lumley Road Tarago	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
21/07/2023	10:00:00 am	EPA Environmental Line	Odour	EPA Point 72 Tarago	Complainant reported odour issues in Tarago area including strong odours next to the EPA Point 72 where the H2S sensor is installed. Complainant reported to have reviewed sensor data and it had a detection of zero.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/07/2023	11:00:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported odour detected at 11:00 AM, 11:45 AM and 2:40 PM. Odour persisted for 15 minutes at each occurrence. Character of odour was reported as rotten eggs, manure and compost. Odour strength reported as very weak and there was a moderate westerly wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/07/2023	11:00:00 am	E-mail	Odour	Around Tarago including at Tarago Public School	Complainant reported odour detected at 11:00 AM, 11:45 AM and 2:40 PM. Odour persisted for 15 minutes at each occurrence. Character of odour was reported as rotten eggs, manure and compost. Odour strength reported as very weak and there was a moderate westerly wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
20/07/2023	8:40:00 am	EPA Environmental Line	Odour	Corner of Boro Road and Braidwood Road - south of Tarago	Complainant reported odour detected with character of rotten eggs, manure and compost. The odour was reported as persisting for 15 minutes and strength of odour was very weak. There was a light westerly breeze.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/07/2023	8:40:00 am	E-mail	Odour	Corner of Boro Road and Braidwood Road - south of Tarago	Duration: At least 15 minutes Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: very light westerly breeze The odour was detected while waiting for the school bus. This is the first time I have ever detected the odour in this location.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/07/2023	8:10:00 am	E-mail	Odour	803 Boro Road, Lower Boro	Duration: About 2.5 hours Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: mostly calm The odour was detected outside our house at about 8:10 in the morning. It was NOT present at 05:30 or 07:00 in the morning when I went outside as well. The odour was detected consistently between about 08:10 and 10:30 in the morning.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/07/2023	8:10:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Complainant reported odour was detected from 8:10 AM to 10:30 AM. Odour was reported to persist for 2.5 hours. Strength of odour reported as weak with character of rotten eggs, manure and compost. There was no wind reported.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/07/2023	All Day	EPA Environmental Line	Odour	Goulburn Street, Tarago	The complainant reported offensive odour coming from Veolia. The odour reported as starting in the morning when complainant left for work and was still strong upon returning home at 4:00 PM. The odour was reported as a mix of chemical and rotting smell suspected to be coming from a concentrate of leachate.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/07/2023	All Day	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported strong offensive odour affecting them at their home. Reported the odour to be on and off for three days. Complainant advised they are sick of the odour. There was a slight breeze from the west. Odour reported as gassy and rotten garbage and rated as strong. Complainant claims to have reported the issue multiple times, the odour is ongoing, persistent and has been happening for many years.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/07/2023	19:53	EPA Environmental Line	Odour	Mooneys Road, Currawang	Complainant reported odour that was a strong, unpleasant smell that was constant and very offensive. The odour was reported as being like rotting rubbish. There was no breeze, clear sky and approximately 2.5^{o}C. Complainant was unable to remain in the area due to the odour.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
14/07/2023	6:00:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported odour has been stinking up their house regularly this week with a festering smell of putrid, rotting garbage. Odour was reported from 6:00 AM to 9:00 AM where there was no breeze and cold with clear skies. The odour was reported again in the afternoon at 3:30 PM when it was very windy. Odour reported again at 9:45 PM.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/07/2023	9:55:00 am	Phone (Direct)	Odour	Crookhills	The complainant stated that the odour was that bad she was unable to let the kids play outside.	

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
13/07/2023	9:30:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported a terrible smell starting at 9:30 AM and was much stronger at the time of the call at 10:00 AM. Reported that the complainant's children did not want to go outside due to the odour.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/07/2023	7:10:00 am	EPA Environmental Line	Odour	Goulburn Street, Tarago	Complainant reported odour coming from Veolia first noticed at 7: 10 AM and persisted until complainant left home at 8:30 AM. The weather reported as still. Odour strength reported as strong with character of rotting garbage, sour milk and dirty nappies.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/07/2023	5:30:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported odour stinking early in the morning until mid- morning. The weather was reported as cold with a slight westerly breeze.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/07/2023	4:45:00 pm	EPA Environmental Line	Odour	Leahys Lane Tarago	Complainant reported odour coming from Veolia. The weather was reported as being a warm day with no wind. The dour strength was rated as very strong with character of rotten garbage, sour milk and dirty nappies. Reported the odour persisted for an hour and made it very unpleasant to go outside.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/07/2023	9:30:00 am	EPA Environmental Line	Odour	Bungendore Road Tarago	Complainant reported a bad smell coming from Veolia landfill which was also detected at the Taylor Creek fire shed.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/07/2023	05:00	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported odour stinking early in the morning at 5:00 AMwhen it was cold with a slight breeze. Odour reported again in the evening from 4:00 PM until 9:30 PM. The weather was reported as calm and still in the evening.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/07/2023	PM	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported odour detected in the evening.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
03/07/2023	1:00:00 pm	EPA Environmental Line	Odour	Tarago Rd Tarago	Complainant reported offensive, rotten refuse odour whilst driving on Tarago Road. Odour rated as very strong. Weather reported as still and sunny with temperature 13 C.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/07/2023	8:50:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported odour detected approximately 10km from the Bioreactor site. Odour reported as smelling like rotting garbage. Complainant advised the odour is not coming from anything close by as has checked car, septic tank and wood fire. Complainant advised this is a long term, ongoing and persistent issue. Complainant has contacted EPA previously about this and feels they are not addressing the odour in any meaningful way. Incident still occurring at time of call.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/07/2023	8:00:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant reported odour which persisted for approximately two hours. Character of odour described as rotten eggs, sewer and compost (rotten garbage). Strength of odour reported as weak with calm weather conditions.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
02/07/2023	8:00:00 am	E-mail	Odour	Boro Road, Lower Boro	Duration: About 2 hours Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: calm The odour was detected on our property in cold conditions. The odour dissipated when some light winds from the North West came through.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/06/2023	2:30:00 pm	EPA Environmental Line	Odour	Tarago Primary School	Complainant reported odour detected at Tarago primary school which persisted for approximately 60 minutes. Character of the odour described as rotten eggs, sewerage and compost. Strength of the odour was reported as very weak with light winds present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/06/2023	2:30:00 pm	E-mail	Odour	Tarago Primary School	Duration: At least 60 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: light winds, direction was difficult to tell The odour was detected through the entire school and outside the school grounds (approximately 100m from the installed H2S sensor).	An assessment of meteorological data and operational activity was completed in order to investigate the potential source or cause of odour was undertaken. No detection of H2S was registered at the monitoring station located in the Tarago Village at the time of the report of odour. Veolia is incorporating a periodic gas calibration and testing schedule into the approved QCQA procedure to ensure all stations are operating at optimum performance.
28/06/2023	9:10:00 am	EPA Environmental Line	Odour	Leahys Lane Tarago	Complainant reported to be affected by offensive rotten refuse odour attributed to the Veolia Woodlawn waste facility. Weather conditions were light rain, no wind, temperature 60C, odour strength rated as very strong. Reported as the usual stink, described as like sour milk/dirty nappies.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/06/2023	4:00:00 pm	In Person	Road Traffic	Bungendore Road near roadworks between Tarap and Bungendore	Whilst following behind a customer truck, the complainant noticed a lot of loose plastic hanging and flying off from the top of the trucks tarp. The truck also appeared to be speeding.	Site management have asked Veolia's sales team to issue correspondence to all regional Woodlawn customers reminding them of their CoR obligations, and implications should they not follow these rules and those of Veolia's Transport Code of Conduct.
20/06/2023	9:30:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported odour present from 9:30 PM and was ongoing until approximately 10:30 PM. The odour was reported as very strong and overpowering with character of dirty nappies and sour milk. The weather was reported as being still and cold.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/06/2023	9:15:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported odour present when outside at their residence from 9:15 PM to approximately 11:00 PM. The odour was reported as being overpowering. Character of the odour reported as being like dirty nappies and sour milk.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/06/2023	8:30:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported another evening disturbed by odour coming from Veolia. Complainant has air purifiers running and all windows and doors sealed, but the odour still manages to get into the house. Complainant report having been woken by the odour and kept awake for a long period due to the odour. Complainant is quite upset about the odour returning almost daily.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/06/2023	7:25:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported odour coming from Woodlawn Waste Facility with the odour permeating through the complainant's home and making them feel nauseous.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
16/06/2023	7:00 PM to 1:00 AM	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported a constant odour from 7:00 PM to 1:00 AM which was very strong. Complainant reported to have been woken by the odour and kept awake for hours because of it, which then resulted in a headache. Wind was reported as a very weak north-westerly.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/06/2023	6:20 AM to 6:00 PM	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported a constant odour from 6:20 AM through to 6:00 PM. Strength of the odour reported as distinct and strong with an organic character. Reported that the odour has limited the complainant's outdoor activities.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/06/2023	6:00:00 pm	EPA Environmental Line	Odour	Tarago	Complainant is making another report amongst several others in relation to the foul smell of gas, garbage and sewerage. This is an on-going issue that is very persistent. Complainant lives in the middle of the bush with the nearest neighbour being about one kilometre away and the organisation being 15 kilometres away. Complainant can only escape the smell by closing all windows and entrances in the house and presumes the smell will linger until the morning unless the wind changes. Incident still occurring at time of call.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/06/2023	7:00:00 am	EPA Environmental Line	Odour	Tarago	Complainant reported the odour was bad again today. Weather reported as no wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/06/2023	9:30:00 am	EPA Environmental Line	Odour	Mooneys Road Currawang	Complainant reported an odour of rotting rubbish/ ammonia that was very strong. The odour was reported as being very offensive and constant with the complainant being unable to remain in the area. The weather was reported as being clear with a slight breeze from the south and approximately 5 C.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/06/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported to have first noticed odour when outside at 9:00 AM. The odour was reported as still being present at 10:00 AM. The odour was reported as very strong, with character of dirty nappies and sour milk. The weather was reported as still and very cold.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/06/2023	7:30:00 am	EPA Environmental Line	Odour	Mooneys Road Currawang	Complainant reported a rotting rubbish/ ammonia odour which was strong and unpleasant. The odour was reported as being very offensive and constant with the complainant being unable to remain in the area. There was a moderate breeze from the south-east, it was reported as being overcast and approximately 7 C.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/06/2023	7:00:00 am	EPA Environmental Line	Odour	Tarago	Complainant reported the odour was bad again today. Weather reported as no wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/06/2023	8:39:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant reported to be driving through Tarago and the stench from the Woodlawn bioreactor is atrocious. It's a gassy, rotting garbage, sweet, chemical- infused stench that is making complainant nauseous. Reported to make it difficult to breathe when unable take a breath in without wanting to vomit. Complainant reported to be in the car with the car switched to recirculate and the stench is still penetrating. The weather was 60 degrees, sunny with no wind.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
07/06/2023	8:40:00 am	EPA Environmental Line	Odour	Tarago Road	Complainant reported an odour like rotten garbage and was so strong rated as 10/10. Complainant reported the odour so strong could be detected while driving in the car with windows up and air vents closed. The smell sat in the back of complainant's throat and made nose feel as though it was burning, causing an irritation and continuous sneezing. The odour gave complainant and their child a headache. Complainant reported the odour most strongly at the intersection of Tarago Road and Collector Road and was detected until the intersection of Tarago Road and Taylor's Creek Road. Odour detected again during the evening approximately 5km from the Collector turnoff on Tarago Road. The weather conditions were reported as cold and drizzly, with cloud cover and fog. During the evening odour again detected. The weather was reported as fine with no cloud cover.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/06/2023	5:00 AM & 8:00 AM	EPA Environmental Line	Odour	Collector Road	Complainant reported a horrible rotting garbage odour coming from Veolia Woodlawn at 05:00 AM and then was a slight odour after 08:00 AM. Odour strength reported as very strong with a north-east wind present.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/06/2023	7:15:00 pm	EPA Environmental Line	Odour	Tarago Road	Complainant reported an odour which smelled like decomposing garbage and rated as very strong. Reported to have experienced the odour regularly and on numerous occasions in the last few weeks. The weather was reported as fine with a small amount of cloud cover, still with no wind present. The complainant reported the odour to make driving through Tarago an uncomfortable experience and always gives the complainant headaches.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/06/2023	3:45:00 pm	EPA Environmental Line	Odour	Corner Braidwood Road and Lumley Road	Complainant reported odour whilst in Tarago town. Odour strength rated as very strong with an extra sour milk smell and was ongoing for 20 minutes. Weather reported as 110 with a light wind and semi overcast.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/05/2023	11:47:00 pm	EPA Environmental Line	Odour	Collector Road	Complainant advised that odours have been hanging around consistently lately, and complainant can smell it often. Mostly mild but noticeable. Weather reported as chilly, no rain for a couple of weeks. Wind reported as gusty and mostly from north-west. Complainant believes the odour is worse when the weather is still.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/05/2023	7:30:00 pm	EPA Environmental Line	Odour	Collector Road	Complainant advised garbage smell is back again. Weather reported as no wind or rain, but quite cold.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
30/05/2023	5:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported odour experienced when opening the gate for husband at 5:00 AM. At approximately 5:30 AM the odour was experienced again and reported as horrendous. It has a strong, rotting meaty stench on top of the usually gassy, sweet, garbage smell. Complainant reports the odour as easily identifiable as the landfill. The stink coats the back of complainant's throat and makes them nauseous. Complainant reported to have work to do outside that morning but won't be able to until the stench clears. The weather reported as cold and still, no frost and a very slight breeze. Complainant is located over 15km from the landfill.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
29/05/2023	2:30 pm to 9:00 pm	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported a disgusting rotten egg gassy smell whilst driving through Tarago. When complainant returned home from Tarago at approximately 2:45 PM there was a faint taint of stench from the landfill. The stench persisted throughout the day, increased and came in gusts. It continued until complainant went to bed at 9:00 PM. The weather was around 110 and very windy.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
29/05/2023	2:00:00 pm	EPA Environmental Line	Odour	Tarago Public School	Complainant reported odour detected at Tarago Public School multiple times. The odour was present for approximately 90 minutes with character described as rotten eggs, faecal/manure/sewer and compost with odour strength reported as very weak. Wind reported as a moderate westerly.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
29/05/2023	2:00:00 pm	E-mail	Odour	Tarago Public School	Duration: At least 90 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: moderate westerly The odour was detected when I arrived at the school grounds and was detected multiple times while around the school.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
29/05/2023	5:30:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported strong odour of rotting garbage coming from the Veolia site that has been dumping rubbish in an old mine for the last 20 years. Odour is entering complainant's home and making family feel nauseous. Complainant advised this is an ongoing issue.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/05/2023	9:30:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant reported a constant odour with character described as 03 (burnt, smoky). Strength of odour reported as 4/5 with no wind present. Complainant reported the odour was making them nauseous.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/05/2023	9:45:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported that odour was detected while traveling through Tarago on the way to Goulburn. The odour got worse when the windows in the car were down. Character of odour reported as rotten eggs/sulfide, faecal/manure/sewer and compost/ rotten garbage. Strength of odour was weak with a moderate westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/05/2023	9:45:00 am	E-mail	Odour	Braidwood Road, 60kph zone through Tarago	Duration: At least 5 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: moderate westerly The odour was detected while traveling through Tarago on the way to Goulburn. The odour got worse when we wound the windows in the car down.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
26/05/2023	12:30:00 pm	EPA Environmental Line	Odour	Some distance from Woodlawn	Complainant reported a stench experienced throughout the day and night coming from the Woodlawn Bioreactor. Complainant was unable to sit on veranda as the odour was overwhelming.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/05/2023	7:30:00 am	EPA Environmental Line	Odour	Bungendore Road, Tarago	Odour was like rotten egg gas and very strong (5 out of 6). Weather reported as very slight breeze.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/05/2023	8:00:00 am	EPA Environmental Line	Odour	Boro Road, Tarago	Complainant reported approximately 90 minutes of odour detected with character described as 06, 09 and 13 (rotten garbage). Strength reported as 1/5 with a light to moderate west to north-west wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/05/2023	8:00:00 am	E-mail	Odour	Boro Road, Lower Boro	Duration: At least 90 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: light-moderate westerly / north westerly The odour was detected when outside our house / around our property.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/05/2023	8:53:00 am	EPA Environmental Line	Odour	Tarago showground	Complainant reported to be affected by rotting garbage-like offensive odour in the air at the Tarago show ground starting from 8:53 AM. The odour is suspected to be coming from the Woodlawn Eco-precinct.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/05/2023	9:50:00 am	EPA Environmental Line	Odour	Goulburn Street, Tarago	Complainant reported to be walking through town and noticed an unpleasant and strong garbage odour. Odour was stronger when approaching the train tracks on Goulburn Street. Walking away from tracks in a westerly direction along King Street, the odour was becoming less strong. Weather is cold, very clear, barely noticeable breeze.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/05/2023	2:00:00 pm	EPA Environmental Line	Odour	Bungendore Road, Tarago	Noticed while on Lumley Rd, intersection of Goulburn Road, Tarago. Odour again very similar to rotten egg gas and very strong. (5/6).	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	6:00:00 am	EPA Environmental Line	Odour	15km from Woodlawn	Complainant reported there is a stink coming from Veolia at Woodlawn and is unable to open windows because it smells so much. Should not have to put up with stink that is 15km away and cannot understand why they have not been fined. Everyone is sick of calling this through and would complain to EPA for not acting. It is unacceptable putting up with this stink. Smells like cheap floral deodorizer crossed with fish and rotting garbage - a sweet, rotten smell. Really bad this morning. Have smelt it since 6:00 AM and is ongoing. It is foggy and frosty which makes it worse. Always comes when it is foggy, which is almost daily in winter. Type of odour described as rotting garbage.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
23/05/2023	8:30 AM and 7:30 PM	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant affected by odour from Veolia Woodlawn at several sites, including Tarago preschool and Collector Road turnoff, 4.4km south-east of Tarago township. Strength of the smell rated as 9/10. It smelt like decomposing garbage and had an 'acidic' smell, like vinegar. First noticed odour whilst dropping child at Tarago preschool. Complainant noticed the odour again driving along Tarago Road for about 10km, and along Braidwood Road in a northerly direction. The weather conditions were reported as fine, but cold and without rain or cloud cover. Complainant has noticed the smell worsens after rain events, but recently occurs even in the finest of conditions. This week, the odour has been strong and persistent daily.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	9:14:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported odour in Tarago to be putrid. Rated as 5/5 character and strength. No wind reported.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	5:28:00 pm	EPA Environmental Line	Odour	Tarago	Complainant advised of odour coming from Veolia Tarago Bioreactor. Complainant advised that the smell is back again, kind of faint. No wind or rain, quite chilly.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	7:10:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported an odour this evening coming from Woodlawn Waste Facility. Complainant advised that the odour is intermittent but ongoing. The smell is an unpleasant strong garbage smell. The current weather conditions are no breeze and clear skies.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	8:00:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported horrific odour, smells of gas, garbage and sewerage. The smell is very thick in the air and an ongoing issue for years from this site. Offensive odour that is making it impossible to go outside due to the air quality. Incident reported as still occurring.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/05/2023	9:30:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported to be affected by odours from Veolia Woodlawn waste facility. Odour was reported as rotting garbage, sour milk and dirty nappies and was catching at the back of the throat. 1) First noticed when went outside - odour present until at least 10.30 PM. Temperature was 5^{o}C. Odour strength was overpowering and rated as 6/6. Weather reported as still, no wind and clear sky. 2) Noticed again 24/5/2023 at 7:00 AM when caller first went outside. Odour still present at 7:30 AM. Odour strength reported as 5/6 (very strong). Weather reported as still, very cold, likely 2^{o}C-3^{o}C.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
22/05/2023	5:20:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant reported the odour coming from Woodlawn landfill is absolutely rank at their house. It is described as a foul, meaty, rotting odour clogging up the air. It made the complainant wretch the entire time outside and continued to feel nauseous after coming inside. The odour is easily identifiable as the Woodlawn landfill as it has a unique smell. The complainant is located over 15km from Woodlawn but in the direct path of the landfill. The weather is very cold and frosty (close to zero degrees and frost evident) with no wind. The sky is clear. Complainant reported again that evening the odour was horrendously strong at their house from 6:00 PM to 9:00 PM. Reported the odour to be very strong inside their home and is making them feel nauseous. Complainant had to use an air purifier as the smell was making them wretch.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/05/2023	7:30:00 am	EPA Environmental Line	Odour	Corner Lumley Road and Braidwood Road	Complainant reported odour present this morning 7:30 AM, whilst waiting at the bus stop, corner Lumley Road and Braidwood Road, Tarago. Odour was reported as ongoing until leaving the bus stop at 8:00 AM. Odour was reported as being so strong that children were kept inside the car waiting for the bus. Within 5 minutes exposure to the odour awful headaches are experienced. There was a fog around Tarago town at the time, about 3 degrees. No breeze and odour strength was 6/6.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/05/2023	11:45:00 am	EPA Environmental Line	Odour	Tarago	Complainant reported to have returned from Canberra and there was a stinking deposing garbage odour, that was very strong. The odour is an every-day occurrence and has been an ongoing problem for many years.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/05/2023	6:45:00 pm	EPA Environmental Line	Odour	Lake Bathurst	Complainant reported to have smelled an odour like rotten garbage and was rated the smell as 9/10. Complainant reported that it could be smelt strongly while driving in the car with windows up and air vents closed. The smell sat in the back of complainant's throat for the rest of the drive through Tarago (about ten minutes) and gave the complainant a headache. Reported to have smelt the odour on numerous occasions, especially during the past month. The weather conditions were fine, with a slight breeze. It was cold but without rain or cloud cover. In the past, noticed the smell worsen after rain events, but over the past month, the smell occurs even in the finest of conditions, especially in the mornings and evenings.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/05/2023	9:38:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character was described as rotten eggs and other (methane). Strength of odour reported as distinct and strong with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/05/2023	7:30:00 am	EPA Environmental Line	Odour	Petrol station, Tarago	Complainant reported to be affected by odour coming from the Woodlawn Eco- Precinct on Collector Road, Tarago NSW. The incident occurred at the front of Tarago Service Station at 7:45 AM.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
19/05/2023	7:00:00 am	EPA Environmental Line	Odour	Lake Bathurst	Complainant reported to have first noticed the odour at home in Lake Bathurst at 7:00 AM. The odour was reported as also being present when complainant returned home at 2:30 PM and was still present at 3:30 PM. Complainant reported to have noticed the odour in the Tarago village momentarily at 7:25 AM. Odour characteristics reported as disgusting, standard rotting odour from the Woodlawn site. Odour strength described as very strong, 5 out of 6. Weather reported as still with a slight breeze from the west or southwest. No cloud cover. Odour also present the previous day at complainant's home around 7:20 AM but reported as being not as strong. Rated 'strong' or 4 out of 6.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/05/2023	5:45:00 am	EPA Environmental Line	Odour	Tarago	Complainant reported odour again from the Veolia Woodlawn Bioreactor affecting complainant's household. Their partner first noticed odour at 5.45 AM and the odour strength was overpowering (6 out of 6). Still present at 7.15 AM (noticed by complainant/children) and it was so strong/unpleasant complainant went back inside, postponing outdoor work. Odour made complainant feel unwell. Weather reported as very slight breeze, temperature approximately 2C. Clear, no clouds. Odour still present at 8.20 AM but slightly weaker. Odour gone by 10 AM.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/05/2023	6:30:00 am	EPA Environmental Line	Odour	Tarago	Complainant reported odour from Veolia's Woodlawn bioreactor was present at their home from approximately 6:30 AM until 10:30 AM. The odour began as a medium taint in the air, but by 7:15 AM was so strong that it prevented complainant from being outside. Complainant had to delay the livestock feeds and planting work as the odour was making complainant retch and want to vomit when outside. Complainant reported to have a headache from the short periods of being unable to avoid being outside. The weather was reported as WSW wind direction but had been still most of the day.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
19/05/2023	8:30:00 am	EPA Environmental Line	Odour	Lake Bathurst	Odour from Veolia Woodlawn at Tarago: yesterday and today affecting home/farm, family/staff at Lake Bathurst. Complainant noticed a strong odour this morning at 8.30 AM, not sure how long it lasted, as caller left the area. Weather reported as still, no wind, with a frost. Odour was also reported to caller by a farm worker on the same Lake Bathurst property at midday yesterday, 18/5/23. It must also have been strong because the worker normally doesn't notice these odours.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/05/2023	6:30:00 am	EPA Environmental Line	Odour	Lower Boro	Complainant residing in Lower Boro affected by offensive odour attributed to the Veolia Woodlawn waste facility, following on from complaint earlier in the day.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/05/2023	11:20:00 am	Community Feedback Line	Odour	Covan Creek Road, Lake Bathurst	The complainant advised that they had detected a smell of what they described to be sulphury, gassy smell allegedly coming from Woodlawn. This was the first time in quite a while that they had smelled the odour and felt inclined to call. and report it.	Site management spoke with complainant and correlated details with weather condtions and site operations to that determine of the report of odour could be attribited to Woodlawn. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/05/2023	11:20	EPA Environmental Line	Odour	Tarago	Odour complaint coming from Woodlawn, Tarago at 11.20 AM. It was reported as rotten egg gas, rated as 5 very strong and very unpleasant. Complainant reported everything in the house was closed. The weather condition reported as very still, cloudy, overcast, with an inversion.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/05/2023	07:30	EPA Environmental Line	Odour	Tarago	Complainant reported an odour from Woodlawn affecting them at home in Tarago from 7:30 AM to 9:15 AM. Odour strength was overwhelming. Odour was reported as rotting garbage, sour milk, dirty nappies and very unpleasant. Weather conditions reported as no wind, light low cloud, cold and approximately 00.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/05/2023	05:30	EPA Environmental Line	Odour	Approximately 15km from Woodlawn facility	Complainant reported an odour of rotting garbage / rotting eggs with the overwhelming odour of a cheap floral deodoriser. Complainant reported the overwhelming smell of rotting garbage, rotting eggs and dog poo etc with the hint of a floral deodoriser. First noticed at 5:30 AM and increasingly got worse due to a heavy frost and fog in the area this morning.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/05/2023	18:41	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character was described as rotten eggs and other (methane). Strength of odour reported as distinct and strong with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
16/05/2023	17:38	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character was described as rotten eggs and other (methane). Strength of odour reported as distinct and strong with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/05/2023	17:30	EPA Environmental Line	Odour	Tarago	Complainant reported Woodlawn bioreactor was stinking up the complainant's home. Complainant was showering in the evening at approximately 5:30 PM and the smell came in the open bathroom window and stank out the room. When complainant went outside afterwards the smell was incredibly thick. It was completely disgusting. The smell was so bad that when complainant's partner arrived home, they didn't unpack the car but left their bags inside it so that we didn't need to be outside. The stench persisted until after complainant went to bed (after 9:00 PM). The stench was typical of the Woodlawn landfill - rotting garbage with a sickly-sweet taint, and easily identifiable as the landfill.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/05/2023	10:30	EPA Environmental Line	Odour	Lake Bathurst	Complainant reported to be affected by offensive rotten refuse odour attributed to the Veolia Woodlawn waste facility. Light breeze from the north-east. Complainant feels unable to hang washing out due to the offensive odour as it will make the clothes stink.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/05/2023	09:00	EPA Environmental Line	Odour	No location provided	Complainant reported to be affected by offensive odour attributed to Veolia Woodlawn waste facility, thought to be from the leachate. There was very little wind. Odour persisted for several hours and was then present again in the evening.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/05/2023	AM	EPA Environmental Line	Odour	Mount Fairy	Reporting foul odour from Woodlawn Bioreactor near Tarago. Complainant reported the stench from the Woodlawn Bio-reactor was present at their place during the morning. Complainant's reported being located quite some distance from Woodlawn and generally we don't smell it, but on this morning it was foul (and other neighbours agreed).	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/05/2023	2:34:00 pm	EPA Environmental Line	Odour	Malua Lane, Mount Fairy	Complainant reported an odour from Woodlawn Tarago, with the complainant's residence being 15 km from Woodlawn. Reported to not often experience the rotting garbage smell, but it was particularly bad this morning in the fog.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
15/05/2023	10:07:00 am	EPA Environmental Line	Odour	Steepers Lane, Mount Fairy	Complainant reported experiencing very foggy weather (inversion layer) and the odour from the waste facility was very strong and putrid. This is an ongoing problem from the facility during these sort of weather conditions. The complainant understood from previous conversations with EPA staff that Woodlawn were being required to remedy the issue, but it remains ongoing. It appears that nothing has changed.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/05/2023	7:35:00 am	EPA Environmental Line	Odour	Corner Braidwood Road and	Complainant reported a stench in the town at the corner of Braidwood Rd & Lumley Rd, Tarago. Complainant was at the school bus stop with her children and could not get them out of the car due to health reasons. The odour was ongoing from 8:00 AM with the odour infiltrating the car without aircon. It was 10 degrees, overcast, foggy and quite still. The smell is like the usual rotting garbage, sour nappies, off milk and a metallic tang.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/05/2023	5:00:00 am	EPA Environmental Line	Odour	Lumley Road, Tarago	Complainant reported a foggy morning around the area and the odour was very strong. Complainant reported the odour, and the fog was coming from the old Woodlawn Zinc Copper Mine site which is now Veolia site.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/05/2023	6:17:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character described as rotten eggs and other (methane). Strength of odour reported as distinct and strong, with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/05/2023	8:00:00 am	Community Feedback Line	Odour	Braidwood Rd, near the Showgrounds	Duration: Since she has gone outside at 0800 to 0900 Character of odour: rotten garbage Strength of odour: 4/5 Wind direction: light westerly The complainant stated that Crisps Creek operations or train movements could be related to the odour as the odour appears to come and go from around 5am or 5pm.	Site management spoke with complainant and correlated details with weather condtions and odour surveys from earlier that morning that determined Woodlawn to be a potential source. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/05/2023	8:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant is affected by offensive odour in the air at Braidwood Road, Tarago starting from 8:00 AM. The odour is suspected to be coming from the Veolia Environmental Services facility along Collector Rd Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
12/05/2023	7:45:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago. Corner of Tarago Road and Burrabinga Road	Complainant reported odour at two locations coming from Woodlawn, Tarago. 1.Complaint by caller: odour first smelt during the morning at 8:00 AM at Leahys Lane. Complainant opened the back door and there was an instant, nauseous and overwhelming smell. Complainant reported as having to feed the animals, so spent 20 minutes of feeding and she had to control herself from not vomiting. The odour smelt like rotting garbage, dirty nappies, sour milk leaving a metallic aftertaste in the mouth. The odour had been ongoing until 10:00 AM. In the interim, complainant reported as being unable to put washing on the line, could not open the house, could not let the cat out. Complainant also reported the inability to go for a run as it stank. Claimed the odours are affecting her mental, physical health and wellbeing. 2. Person drives to Canberra every day. Whilst dropping off children at the bus stop, driving into Tarago with the car vents closed. The odour stank at 7:45 AM at the corner of Lumley Road and Burrabinga Road at the top of the hill. The odour was reported as stinking again at 7:55 AM at the corner of Tarago Road and Crisp Creek. The weather was reported as blue sky, 170, with no wind to light wind now.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/05/2023	7:38:00 am	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character described as rotten eggs and other (methane). Strength of odour reported as distinct and strong, with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/05/2023	7:30:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported odours coming from Woodlawn which have been happening for years, it stinks. The environment and health of everyone is at risk. Odour character described as rotten eggs and other (methane). Strength of odour reported as distinct and strong, with a westerly wind present.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/05/2023	8:30:00 pm	EPA Environmental Line	Odour	Braidwood Road, Lake Bathurst	Complainant affected by extremely strong offensive odour attributed to the Veolia Woodlawn waste facility from 8:30 PM. Complainant reported no breeze at all, very still air. Rotten refuse odour, very irritating to the complainant's nose and eyes. Odour was extremely strong, rated the odour as 12 out of 10. Odour was reported as infiltrating the home despite closed doors and windows etc. Odour had abated the next morning. The complainant noted that there had been a recent increase in the strength of the odour, which is an ongoing problem.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/05/2023	7:14:00 pm	EPA Environmental Line	Odour	Cullulla Road Tarago	Complainant affected by an offensive odour attributed to Veolia Woodlawn waste facility. Wind was reported as being from a westerly direction.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/05/2023	8:30:00 am	EPA Environmental Line	Odour	Collector Road Tarago	Complainant reported a strong rotting garbage odour from Veolia Woodlawn, on Saturday 6/5/2023 at 08:30 AM and 5:40 PM, and again on Sunday 7/5/2023 at 7:10 AM. Scale was reported as 5/6. Complainant advised the odour has been occurring intermittently since Easter and the odour issue is getting worse.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
06/05/2023	AM	EPA Environmental Line	Odour	Tarago town	Complainant lives nearby Tarago but attends regularly as a nearby community member. On Saturday the 6th of May attended pony club in the heart of Tarago NSW. Complainant reported the town absolutely stunk of rubbish from the Veolia waste centre and almost vomited from the smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/05/2023	10:00:00 am	EPA Environmental Line	Odour	Tarago town and Tarago Primary school	Complainant reported an odour character of (06, 09 and 13) rotten garbage. Wind strength was 2/5 with a light westerly wind.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/05/2023	7:30:00 pm	E-mail	Odour	Braidwood Rd, near the Showgrounds	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: light westerly There were no trucks or other vehicles around. Wound down the windows in the car and the smell was worse.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/05/2023	07:45	EPA Environmental Line	Odour	Tarago town plus the Corner of Lumley and Braidwood Roads and the train station.	Complainant affected by offensive rotten refuse odour attributed to the Veolia Woodlawn waste facility, when in Tarago town area. Complainant was affected by odour in the vicinity of the bus stop at corner Lumley and Braidwood Roads and again at the train station, from around 7:45 AM. Odour persisted until the complainant boarded the train at 8:00 AM and left the area. Weather was reported as being still and a bit foggy.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/05/2023	02:30 am & 6:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported to have been awaken early morning with familiar odour coming from Veolia Woodlawn precinct. The smell penetrated inside the house, causing sleep disturbance from being woken by offensive odour. Complainant says they are reporting weekly to the EPA, which only covers the occasions when the odour is really bad.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/05/2023	2:00:00 pm	E-mail	Odour	Tarago/Bungendore Road all the way through town to Tarago Primary School	Duration: At least 90 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: light-moderate westerly The odour was first detected on the edge of town and got progressively worse as I drove through the middle of the the town / near the railway line. It was even more noticable at the Primary School when I got out of the car.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/05/2023	6:15:00 pm	EPA Environmental Line	Odour	Mayfield Rd, Tarago	Complainant reported a smell coming from Veolia as sweet and sickly, strong silage. The smell was reported as being different than the usual smell that makes them literally dry heave.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/05/2023	8:50:00 am	E-mail	Odour	Braidwood Rd, near the Showgrounds	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: moderate westerly	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
02/05/2023	8:50:00 am	EPA Environmental Line	Odour	Braidwood Road, near Showgrounds	Complainant reported at least 5 minutes of odour classified as (06, 09 and 13) rotten garbage. Strength of odour reported as 2/5 with a moderate westerly wind blowing.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/05/2023	8:00:00 am	EPA Environmental Line	Odour	Leahys Lane Tarago	Complainant affected by very strong, offensive, rotten refuse odour attributed to the Veolia Woodlawn bioreactor. Odour reported as being like sour milk, dirty nappies and garbage. Odour has since abated at time of call to Environment Line.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/05/2023	7:30:00 am	EPA Environmental Line	Odour	Corner of Lumley and Braidwood Roads plus Leahys Lane.	Complainant reported impact of offensive, rotten refuse odours attributed to the Veolia Woodlawn waste facility on three occasions. 1) Children affected when waiting at bus stop corner Lumley Rd and Braidwood Rd at 7:30AM. 2) A very strong odour was reported again at the same location at 4:00 PM. The wind direction not noted. 3) Complainant also affected by offensive odour at residence in Leahys lane from 10:00 PM ongoing.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/05/2023	12:15:00 pm	EPA Environmental Line	Odour	Tarago Station	The caller is affected by offensive odour in the air around Tarago Station, Tarago. The caller started experiencing the odour at 12:00 PM. The caller likened the odour to rotten garbage. There is a southwest light breeze. The odour is suspected to be coming from a Veolia facility nearby.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/04/2023	10:30:00 am	EPA Environmental Line	Odour	Tarago Showground	Offensive odour reported when first noticed at Tarago Showground. It was described as a sweet, rotting garbage taint in the air. Upon returning home approximately 15km from the showground, the odour was reported as being more obvious. The odour was so strong, the stench was reported as pervading into the house even with windows closed. Described as a very strong, sweetly rotting garbage stench that turned the complainants' stomach and required them to close all the windows and put an air purifier on. The weather was reported as being extremely wet with only a slight breeze.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/04/2023	7:45:00 am	EPA Environmental Line	Odour	Braidwood Road Tarago	The odour from Veolia was on and off all day but was particularly noticed on three specific occasions listed. There was minimal to no wind and the smell appeared to settle. No windows could be opened, and plans had to change to avoid outside activities. The odour was rated as being 4, 4 and 5 respective to the times listed, and was described as organic.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/04/2023	7:30:00 pm	EPA Environmental Line	Odour	Mulwaree Street Tarago	Complainant reported a strong smell that was absolutely awful. They closed up quickly to stop infiltrating into the house but was claimed to be lingering 30 minutes later.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
27/04/2023	5:30:00 pm	EPA Environmental Line	Odour	South of Collector Road	Report of an odour that is coming from the Veolia Woodlawn Facility at Collector Rd, Tarago. Complainant initially smelt the odour when approaching approx 1km south of Collector Road on Bungendore Road heading north at 05:30 PM. There was an easily discernible garbage odour that made them winkle their nose and cringe when they smelt it. Complainant continued to smell the odour until they passed Burrabinga Road to the east of Tarago at approx. 05:45 PM. Complainant attempted to report the odour on the Veolia Woodlawn website but received an error that the date and time were incorrect but as they were on their mobile and it used a select method of data entry, complainant did not understand what the error was.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/04/2023	5:30:00 pm	Website Feedback Form	Odour	Bungendore Road, Tarago	Complainant reported being impacted by odour on Bungendore Road. No further information was ascertained.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/04/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane Tarago	Complainant alleging that they were impacted by a “rotten garbage/dirty nappies/sour milk” odour between 9am and 10: 30am on 25 April 2023. They attributed the odour to the Woodlawn waste facility and said that “the weather was very still, there was a heavy fog in the morning. The odour occurred as the fog lifted”. They said that the odour compelled them to retreat indoors.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/04/2023	8:00:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Odour report for Veolia Woodlawn in Tarago. This morning reporter was woken by the odour as it was so strong and it got into the house. It is pretty miserable to be woken up by a smell from a facility over 15- 20km away. Veolia continue to mismanage their odour and are constantly breaching the EPL.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/04/2023	5:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Reporter stating there is a very bad gassy smell coming from Woodlawn Bioreactor. The smell has been going on since earlier in the week. Reporter advised they could not go outside this morning to have breakfast. If wind constantly blew from the east reporter would not smell the odour. When blowing from the west or if the air is very still the gas seems to settle and the smell is everywhere.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/04/2023	9:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Odour from the Veolia Woodlawn facility is affecting people at the Tarago Railway Station this morning. It smells like rotting garbage. Strength: 3 out of 10. Weather: Fine with a light breeze from the southwest.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/04/2023	9:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Odour report: Tarago - 17 April 2023 Date: 17 April 2023 Time: 09: 10 Location: Tarago town centre Duration: At least 5 mins Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: mostly calm	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/04/2023	8:30:00 am	E-mail	Odour	Tarago Town Centre	Character of odour: 06, 09, 13 (rotten garbage)Strength of odour: 2/5Wind direction: mostly calm	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
17/04/2023	8:30:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Reporter noticed the odour around 08:30 and is continuing. Smells of garbage tip. It is strong odour and is making reporter nauseas. Reporter said it is quite disturbing. Reporter is embarrassed of the smell and said he cannot invite guest on his property. Reporter said this strong odour is occurring on a regular basis.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/04/2023	8:15:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Reporter detailed that odour was ongoing till around 9:30 am when caller left the house. Odour smelt of rotten garbage, dirty nappies, and sour milk.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/04/2023	7:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Reporter noticed the odour around 07:30 am. Reporter stated the odour is affecting the contract workers who do hard physical work. Reporter advised it is a sweet-smelling garbage odour.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/04/2023	1:00:00 pm	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Reporter detailed that the Woodlawn landfill at Tarago is wafting a disgusting stench to their home. Impact throughout the day, but has been particularly bad since about 1pm. Reporter identified that wind was strong on the day, and there were gusts of heavy odour. The landfill has a very particular, rotting gassy smell that is unmistakable. This odour does not belong to any natural or agricultural source. Wind blowing from the west towards home. The tip has been smelling vile for the past few weeks. Update 16/04/23 at 18:43 Further to this complaint, the wind has now dropped completely and the stench is palpable in the air at Reporters home.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/04/2023	9:10:00 am	E-mail	Odour	Boro Road, Lower Boro	Character of odour: 06, 09, 13 (rotten garbage)Strength of odour: 1/5Wind direction: slight breeze from the W and NW	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/04/2023	8:30:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Date: 16 April 2023 Time: 08:30 Location: 803 Boro Road Duration: At least 2 hours Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: slight breeze from the W and NW	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/04/2023	9:00:00 am	EPA Environmental Line	Odour	Hilltop Close, Tarago	Reporter Can smell the gassy rubbish smell from Woodlawn this morning up at Hilltop Close it's enough to make you sick this morning.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/04/2023	8:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Reporter noticed the odour on Saturday 15/04/23, at 8 am. It was ongoing till around 10 am. Reporter said the odour made them unwell. Smelt of rotten garbage, dirty nappies, and sour milk.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/04/2023	8:00:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Type Of Odour : Landfill odour. Reporter believes that facility is not being managed correctly. Reporter lives 5kms from landfill and is currently standing 10kms away and can still smell it. Reporter has reported this issue previously. Smell is overly strong this morning. Rates it at 8 out of 10.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
15/04/2023	7:30:00 am	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Reporter detailed awful smell again this morning coming from Veolia Tarago	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/04/2023	7:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by odour coming from Veolia Woodlawn Bioreactor at 7:00 PM which they stated was “really bad and ongoing” and smelt of “dirty nappy, rotten garbage, and sour milk”. They described the strength of the odour to be a 6/6. Collector Rd, Tarago affecting resident at 41 Leahys Lane TARAGO NSW 2580. The complainant said that the smell entered their house and that it was overpowering – the smell continuing until they went to bed at 10 PM.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/04/2023	2:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a bad odour from the Veolia waste facility at 2:00 PM. They reported the odour worsening at 4:00 PM and stated that it was so bad they had to come inside from working on the farm as the odour made them feel very nauseous. Complainant rated odour strength as 6/6.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/04/2023	6:09:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	The complainant reported a smell coming from the west – reportedly from the Woodlawn waste facility.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/04/2023	10:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being affected by odour from Woodlawn Waste facility at 10:00 PM. They described the odour to smell like “dirty nappy, rotten garbage and sour milk” and said that the smell continued until they went to bed at midnight.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/04/2023	4:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by odours coming from Woodlawn Bioreactor. The complainant noticed the odour on Saturday 08/04/23 and smelt the odour twice during the day. First time was at 4 pm and then again at 11 pm. They described the odour to be the smell of “dirty nappy, rotten garbage, and sour milk”.	An assessment of meteorological data and operational activity will be completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/04/2023	10:02:00 am	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported that the odours from Woodlawn waste facility were affecting them on and off. They stated that the smell had worsened after rain from the previous night and that the smell got throughout the whole house, making them feel nauseous. The complainant expressed that it is very frustrating not being able to have fresh air or a breeze in the house for fear of the waste facility making them sick or staining their washing.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/04/2023	9:00:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported an odour of something dead, disgusting coming from Woodlawn Bioreactor. Complainant reported as being in the bedroom with the children and then suddenly got a terrible smell. Complainant went to the window and the odour coming from outside was enough to make complainant's child nearly vomit from the smell. Reported to have to close up all the house to stop the smell going through. Complainant said this is the first time they had smelt the odour, however other family members stated they smell it daily, particularly early in the morning when leaving for work.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
01/04/2023	9:00:00 am	EPA Environmental Line	Odour	Braidwood Road	Complainant reported approximately 5 minutes of odour with character of odour as 06, 09 and 13 (rotten garbage). Strength of the odour reported as 2/5 with a slight breeze.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/04/2023	9:00:00 am	E-mail	Odour	Briadwood Road - south of Tarago into Tarago township	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 2/5 Wind direction: slight breeze / unknown - driving through the town	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/03/2023	9:00:00 am	EPA Environmental Line	Odour	Tarago township	Complainant reported a strong, sweet garbage odour within Tarago township. There was no wind at time of incident.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/03/2023	7:30:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant impacted by very strong offensive odour attributed to the Woodlawn waste facility from 7:30 AM to approximately 9: 30 AM. Very light wind, weather a nice clear/blue sky day. Reported dour as being really strong, rated as 6/6 odour strength. Odour described as like rotting garbage/sour milk/nappies. Complainant was unable to hang out washing due to the odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/03/2023	6:00:00 am	EPA Environmental Line	Odour	15km from Veolia site	Complainant reported a sweet, sickly, rotting odour. Reported as excessive odour from the Woodlawn Eco-precinct (Veolia) site. Complainant advised that the odour makes them heave and want to vomit. Odour is entering their home, doors and window need to be kept closed. Complainant advised that they are required to use reed diffusers and deodorising spray in their home to combat the odour. Reported that this is an ongoing issue and has been occurring for the last 12 months, becoming worse in the last 3 months.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/03/2023	6:00:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported a smell had been coming and going on and off for the last few weeks. Last night from 6:00 PM onwards was particularly bad.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/03/2023	8:30:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being affected by an offensive odour which they attributed to the Woodlawn waste facility. They described the odour as a “rotten garbage/sour milk/nappies” smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/03/2023	9:00:00 am	EPA Environmental Line	Odour	Tarago Café, Tarago	Complainant was at Tarago Café and reported a strong odour which was present for approximately 10 minutes. Character of the odour was 06, 09 and 13 (rotten garbage). Strength of the odour was reported as 3/5 with a slight breeze.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/03/2023	9:00:00 am	E-mail	Odour	Tarago Coffee Shop	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 3/5 Wind direction: slight breeze	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
28/03/2023	9:00:00 am	Community Feedback Line	Odour	King Street, Tarago	The complainant reported smelling a faint odour in the evening of 27/03/2023 which still around til around 9am on the morning of 28/03/2023 which they felt was unusual. They described the odour to be a septic smell, and alleged it was coming for the Woodlawn.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/03/2023	7:30:00 am	EPA Environmental Line	Odour	Hilltop Close, Tarago	Complainant reported an offensive garbage smell was back this morning and very strong.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/03/2023	6:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported a disgusting odour coming from Veolia's Woodlawn Eco-Precinct, which was smelt coming in house windows at approximately 6:00 AM. Reported as smelling of rotten garbage with a very meaty smell overlying the stench. It was reported as being consistent with the smell from Veolia's landfill. The odour was reported as an overpowering stench which detracted from the pleasant smell of the 18 tonnes of eucalyptus mulch located in complainant's front yard. Reported as being unable to go outside as the smell was so strong it made complainant feel ill. All doors and windows had to be closed. The weather was reported as having no wind, with temperature approximately 15 degrees. It had rained the previous day but was not raining at the time of complaint.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/03/2023	6:30:00 am	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported a stinky stench coming from Veolia. Stench was first smelt upon going outside at 6:30 AM.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/03/2023	2:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported to have experienced odour from Woodlawn Bioreactor three times on 27 April 2023. First at 2:00 PM whilst at home. Odour reported as rotten garbage, dirty nappy and sour milk odour. Weather reported as overcast and no wind, odour strength 5/6. Complainant was forced to take all washing off the line so that it didn't get contaminated and had to close all windows and doors. Smell was ongoing so complainant then left home as the odour was unbearable. Complainant then went to the Tarago Cafe, on the corner of Lumley and Braidwood Road. Reported that the odour there stank as well. Rotten garbage, sour milk and dirty nappy odour. Claimed to be unable to tolerate the odour at the cafe as it made caller nauseas. The third time the odour was noticed was at 8:30 PM at complainant's home at Leahys Lane, Tarago. Smell was reported as beyond 6/6. It was so disgusting that it pushed complainant backwards when going outside. The smell was reported as revolting. Odour was ongoing until 11:00 PM. Same smell of dirty nappy, rotten garbage and sour milk.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/03/2023	11:00:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported an odour was noticed on the evening shift at 11:00 PM and rated 6, super strong. Complainant reported an odour was present at 4:30 PM the next day, which smelt like rotten garbage. The strength of the odour was rated 5, strong. Complainant also reported an odour was present in morning 28/3/23 coming back home, the odour was present at 9.30 AM and was rated as 4.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
23/03/2023	8:40:00 pm	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported at the intersection of Willow Glen Road and Cullulla Road, then for approximately 5km along Cullulla Road towards Tarago, there was a disgusting stench of rotten garbage. The smell appeared to have settled down in the lower areas overnight, as it wasn't detected at complaint's residence, but was overwhelming when driving down the hill. Reported as penetrating the car after switching the car to recirculate, making the complainant to feel queasy. The smell was consistent with the sweet, rotting stench of garbage that is often smelt coming from the Woodlawn facility. The location was approximately 10 to 15km from the Woodlawn site. The weather was calm, overcast and humid.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/03/2023	8:40:00 pm	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being affected by offensive rotten refuse odour attributed to the Woodlawn waste facility on 3 occasions: 8: 30pm on 22/3/23, 6:40am on 23/3/23 and 12:15pm on 23/3/23.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/03/2023	9:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported a strong, organic odour coming from the Woodlawn waste facility, with no wind to blow it away. Complainant stated that they had to change their activity as it was too strong to be outside and that they had been noticing the odour all week.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/03/2023	8:00:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being affected by a strong, sour/rotting odour originating from Woodlawn waste facility at 8:00 AM. They stated that the odour was still present and getting stronger at 11.45 AM. Complainant said that they can usually put up with it but today the smell is overpowering. It is their first time reporting to the EPA.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/03/2023	7:45:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported an offensive odour coming from the Woodlawn waste facility at 7:45 AM and again on their drive home at 11:30 AM. The complainant described the odour as a "rotten garbage dirty nappy smell" and described the strength of the odour as 6/6.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/03/2023	3:00:00 pm	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported being impacted by an odour while driving from Tarago to Bungendore. They stated that while driving along Bungendore Road they observed a "hideous stench of rotting garbage" for 10km. The complainant said that "It smelt like hundreds of dead animals were being fermented in warm water and the manky stench was being wafted along the road" and that it made them retch. They stated that it was consistent with the stench close to Veolia's landfill on Collector Road.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/03/2023	10:20:00 am	EPA Environmental Line	Odour	Roseberry Street, Tarago	Complainant reported being impacted by an offensive rotten garbage odour at 10:20 AM, which they attributed to the Woodlawn waste facility. Complainant also reported being affected by a similar offensive odour on Sunday 20/3/23 at about 7:30 PM.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
22/03/2023	7:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported experiencing odour from the Woodlawn bioreactor on 22/03/23. They stated that the odour was bad in the morning and that it returned in the evening. Complainant described the odour to be “like milk that's gone bad mixed with mould and dirty nappies” and “ like a rotten taint in the air”. Complainant noticed the odour in the morning at about 7am and it disappeared around 11am. In evening complainant noticed odour at approximately 8pm and was still present when complainant lodged this complaint at 08:31 PM. Complainant advised they have been smelling it very often lately - too often to find the time to report it constantly. The odour gives complainant a headache and makes complainant feel sick.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/03/2023	2:30:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant affected by offensive odour reportedly coming from the Woodlawn waste facility. Complainant described the odour as a “rotten refuse odour” which smelt like “sour milk and nappies”. The odour was first noted by the caller at about 2:30pm. Complainant has been compelled to close windows/doors and bring in the washing due to the odour. Complainant noted it was quite unusual to experience the odour at this time, it is more frequently a problem in the morning.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/03/2023	9:45:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Complainant reported being affected by odours at 9:45 AM. They described the odour to smell like “rotten garbage” which had the same characteristics of the smell often encountered in and around Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/03/2023	9:45:00 am	E-mail	Odour	Tarago Road between Crisps Creek and up the hill towards the Woodlawn turnoff.	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 3/5 Wind direction: mostly calm Note: This was definitely not a truck exhaust. It had the same characteristics of rotten garbage as the smell often encountered in and around Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/03/2023	8:00:00 am	EPA Environmental Line	Odour	Braidwood Road south of the Tarago Showgrounds	Complainant reported noticing a rotten garbage odour. They rated the strength of the odour as 1/5.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/03/2023	7:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a very strong organic odour that they allege was coming from the Woodlawn Eco-Precinct. They said “Again, the odour is not being managed and the surrounding residents are suffering. It's a hot day and we can't open any windows or go outside due to the stench. Veolia are breaching their EPL yet again. Please rectify.”	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/03/2023	8:00:00 am	EPA Environmental Line	Odour	Duralla Place, Mount Fairy	Complainant reported being impacted by a “sickly odour” when they opened the door to their house at around 8am. They said they had to shut the door upon smelling the odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/03/2023	8:00:00 am	E-mail	Odour	Braidwood Road south of the Tarago Showground	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: mostly calm	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
17/03/2023	8:30:00 am	EPA Environmental Line	Odour	Braidwood Road from Boro Road intersection to Tarago Service Station	Complainant reported being impacted by a rotten garbage odour between 8:30am and 9:30am. They rated the strength of the odour as 3/5.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/03/2023	8:30:00 am	E-mail	Odour	Braidwood Road from Boro Road intersection to Tarago Service Station	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 3/5 Wind direction: westerly wind?	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/03/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported that they have been impacted over the past week by an odour that they allege was coming from the Woodlawn Eco-precinct. They advised that the wind blows the odour towards their house and that the odour comes and goes.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/03/2023	7:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by an offensive rotten refuse odour that they attributed to the Woodlawn waste facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/03/2023	7:15:00 am	Community Feedback Line	Odour	Goulburn Street, Tarago	Complainant reported smelling a “pungent rubbish" odour over the last few days.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/03/2023	9:10:00 am	EPA Environmental Line	Odour	Tarago Train Station	Complainant reported being impacted by a “bad odour from Veolia”. They said it “smells like rotting garbage”. They said there was no wind at the time and they rated the strength of the odour as “about 3 or 4 out of 10”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/03/2023	9:00:00 am	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported a “gas rubbish smell” that they alleged was coming from the Woodlawn Bioreactor. They said “the odour is much less than usual but still noticeable”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/03/2023	5:00:00 pm	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported that a rubbish smell from the Woodlawn Bioreactor has “been hanging around all day”. They said it was still present at 7pm.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
14/03/2023	9:30:00 pm	EPA Environmental Line	Odour	Taylors Creek Road, Tarago	Complainant reported being affected by “offensive rotten refuse odour” that they attributed to “the Veolia Woodlawn waste facility”. They said that they were “compelled to close up the house to stop the odour infiltrating the home”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/03/2023	7:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported that “the landfill at Veolia's Woodlawn Eco-Precinct on Collector Road Tarago is stinking again this morning. It was foggy this morning and is now warm and still with no wind. We are over 15kms from the tip. The smell is like a rotten taint in the air. It invaded the house when I opened the windows this morning at about 7am. It's making me feel quite sick. The smell is consistent with previous odours from the tip - it is not an agricultural smell”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
11/03/2023	8:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a very strong odour that they alleged was coming from “Veolia Woodlawn”. They said they first noticed the odour at 8am and that it was ongoing until at least 10am. They said it was “very strong to the point of gagging” when they walked outside. They said there was no wind and quite a heavy fog.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/03/2023	8:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported that they detected a distinct “rotten garbage” odour as they drove along Braidwood Road in the vicinity of the Tarago Showground.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/03/2023	8:30:00 am	E-mail	Odour	Braidwood Road, Tarago (near Tarago Showground)	Character of odour: 06, 09, 13 (rotten garbage)Strength of odour: 3/5Wind direction: westerly wind Note: Odour was detected while driving to Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/03/2023	All week	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported that they were impacted by an offensive rubbish odour daily for the past week (call received on 17 March 2023). They alleged the odour was coming from “Veolia Woodlawn” and that they first noticed the odour about a week ago in the morning. They said the odour was at its strongest on Wednesday 15 March 2023 and said that was the worst they had experienced since moving to Tarago in 2017. They said the odour has been consistently present since then but has varied in intensity, sometimes being less intense and sometimes getting more intense. They said the odour overall is very strong and intense, to the point where it was causing them to choke.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/03/2023	9:15:00 am	Community Feedback Line	Road Traffic	619 Collector Road, Tarago	Complainant reported that whilst passing site, a truck turning right of of Woodlawn pulled out right in front of them causing them to slam on brakes to avoid a collision. In addition, they stated that the truck drivers are usually very careful, so this was very unusual.	The registration no. supplied to Veolia by the complainant was used to identify the contractor's truck and driver at fault. The dashcam footage was reviewed to ascertain the exact cause the incident, and the driver was reminded of transport code of conduct expectations.
09/03/2023	8:05:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported being impacted by a distinct organic odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/03/2023	6:30:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a very strong offensive odour between 6:30AM and 9:00AM at their home. They alleged the odour was coming from the Woodlawn Bioreactor and said it was so strong that it impacted them both outside and inside their home.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/03/2023	9:30:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported being impacted by a distinct organic odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
07/03/2023	9:10:00 am	Website Feedback Form	Road Traffic	Tarago Village near Train Station	This complainant followed a truck thet they alleged was taking a load to Woodlawn which exceeded the 50km limit past the train station and then the 60km limit through to the exit.	Site management located the rego supplied by the complainant and notified the transport contractor who located and addressed the issue with the truck driver.

Woodlawn Bioreactor Complaints Register

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
07/03/2023	8:00:00 am	E-mail	Odour	8kms along Boro Road	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 1/5 Wind direction: moderate north westerly wind	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
07/03/2023	8:30:00 am	EPA Environmental Line	Odour	Boro Road, Lower Boro	Complainant reported being impacted by a “rotten garbage” odour as they drove along Boro Road. They rated the strength of the odour as 1/5 and said they could smell it over about an 8km stretch of road for at least 20 minutes.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/03/2023	9:00:00 am	E-mail	Odour	Tarago Showground	Character of odour: 06, 09, 13 (rotten garbage) Strength of odour: 5/5 Wind direction: strong westerly wind Note: Odour was detected while driving to Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/03/2023	9:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago (near Tarago Showground)	Complainant reported being impacted by a “rotten garbage” odour with a strength of 5/5 when driving along Braidwood Road in the vicinity of the Tarago Showground.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/03/2023	8:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by an offensive odour that they alleged was coming from the Woodlawn Bioreactor. They said they first noticed the odour at 8pm and it was ongoing and became stronger at 11pm when they went to bed. They rated its strength as 6/6 at that time. They said it was very hot but they were unable to open any doors or windows because of the odour. They said the odour was not present when they woke up the following morning.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/03/2023	10:30:00 pm	EPA Environmental Line	Odour	Taylors Creek Road, Tarago	Complainant reported being affected by an offensive odour that they alleged to be coming from “the Veolia Woodlawn Eco Precinct”. They said they “had to shut the house due to the stench”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/03/2023	10:30:00 pm	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported that they were impacted by a “rubbish gassy smell" outside their home that they alleged was coming from the Woodlawn waste facility. They said the smell caused them to close all windows and retreat inside at 10:30pm.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/03/2023	8:00:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported being impacted by a distinct “rubbish” odour. They rated the strength of the odour as 3/5.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
28/02/2023	9:00:00 am	EPA Environmental Line	Odour	Taylors Creek Road, Tarago	Complainant reported being affected by an offensive odour that they alleged to be coming from “the Veolia Woodlawn Eco Precinct”. They said they “had to shut the house due to the stench”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
26/02/2023	12:00:00 pm	EPA Environmental Line	Odour	Collector Road, Tarago	Complainant reported smelling “a strong sulphur smell” as they were driving along Collector Road in the vicinity of the Woodlawn Bioreactor entrance gates. They said the smell continued for several kilometres further west along Collector Road to the point of some roadworks where the smell was “still just as strong”. They said the odour was “dank” and “was more of a fume than a smell” and expressed concern that it could be toxic. They said they cleaned their car the next day and after wiping down the dash, the rag they used had a faint sulphur smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/02/2023	8:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a strong “garbage” odour that they allege was coming from the Woodlawn Eco Precinct. They said they previously reported being impacted for the consecutive days 16-18 February 2023 (see above). They said “we got some reprieve yesterday 19/02/2023 but the odour is back stronger than ever today. Honestly this is not good enough and it feels like it's getting worse, three out of four days with odour so bad we can't open windows or go outside and it's barely tolerable inside. How is this fair?” They said they “cannot open windows or go outside, temp is hot so very unpleasant. Not much wind so smell seems to be lingering. Smells of garbage as per usual”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/02/2023	8:00:00 am	Website Feedback Form	Odour	Braidwood Road, Tarago	The complainant reported a very strong smell of "garbage" allegedly coming from the Woodlawn Bioreactor. The complainant stated that whilst they got some reprieve yesterday, the odour is back stronger than ever.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/02/2023	4:15:00 pm	Website Feedback Form	Odour	Braidwood Road, Tarago	The complainant reported a very strong smell of "garbage" allegedly coming from the Woodlawn Bioreactor. The complainant stated that they have had odour from the Woodlawn Eco Precinct in Tarago for the past 3 days. Every now and then is okay but 3 consecutive days we are very over it and disgruntled. Temperatures have been 30+ degrees and it means we cannot open windows.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/02/2023	8:48:00 am	EPA Environmental Line	Odour	Steepers Lane, Mount Fairy	Complainant reported being impacted by an offensive odour that they alleged was coming from the Woodlawn landfill. They said “it was a warm still night which often leads to the odour being detectable here. This odour is becoming more frequent. I also detected it on at least 2 other occasions this week.”	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/02/2023	8:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported that they were impacted by a very strong odour that “smelt like slightly sweet rotten food” when they drove into the Tarago township at 8:30am. They said they live 6km away from the village and were not affected by the odour at their home. They alleged the odour was coming from the Woodlawn waste facility. They said the “weather is getting hot, warm and clear and no wind”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/02/2023	9:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a “rotten garbage” odour as they drove along Braidwood Road between the Tarago Showground up to Tarago Public School.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
16/02/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a very strong odour that they alleged was coming from “Veolia Tarago”. They said that they could not hang out the washing and had to close up the house as the odour was permeating throughout the house. There was heavy fog this morning. They said the odour had slightly reduced at the time of their call (10:07 AM).	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/02/2023	12:00:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a strong “garbage” odour that they allege was coming from the Woodlawn Eco Precinct. They said the odour was present for three consecutive days (16-18 February 2023). They said “we can put up with it for a day here and there but three consecutive days week after a week is just ridiculous. It stinks, we can't open windows, are woken up from sleep and it impacts our day-to-day activities. Please take this seriously and enforce the EPL in which Veolia continuously breaches”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/02/2023	9:00:00 am	E-mail	Odour	Braidwood Road, btwn Tarago Showground and Tarago Public School	Complainant reported a smell of "rotten garbage" with a strength of 4/5 whilst travelling along Braidwood Road towards Tarago.	Site management was carrying out a survey in the Tarago Village at the time of the report of odour, however no smell or odour could be detected. An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/02/2023	6:00:00 am	Community Feedback Line	Odour	King Street, Tarago	Complainant reported being impacted by a smell of H2S from 6am to the time of the report, 8:26am. The complainant advised that they believed that long term exposure to H2S from Woodlawn operations has resulted in the complainant getting cancer which they had previously reported to Veolia.	Site management immediately attended the vicinty of the report of odour, and conducted an odour survey in the Tarago Village in which no smell or odour could be detected. An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/02/2023	6:30:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by an offensive odour from the Woodlawn Bioreactor. They said the odour woke them at 6: 30am and the “stench was overpowering”. They said the odour was present until at least 8.30am. They said it was a still morning with no wind.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
11/02/2023	8:00:00 am	Website Feedback Form	Odour	Braidwood Road, Tarago	The complainant reported a very strong smell of "garbage" on and off for the past few hours at least. They reported that they couldn't open their windows or go outside.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
10/02/2023	8:20:00 am	EPA Environmental Line	Odour	Mayfield Road, Tarago	Complainant reported being impacted by a “sweet, rotting smell” that they alleged was coming from “the Veolia Woodlawn Precinct at Tarago”. They said the “odour has been extreme since fog lifted this morning”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
10/02/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a “bad odour” that smells like “rotting garbage, dirty nappies, sour milk”. They said they first noticed it at 9:00am and alleged it was coming from the Woodlawn waste facility. They said they were working outside and had to come inside at 09:10 due to the odour. They said there was a heavy fog and no wind.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/02/2023	10:30:00 pm	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported being impacted by a “rubbish/gassy smell”. They stated that the smellis “currently detectable, causing us to close all windows and retreat inside at 10:30pm”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/02/2023	8:40:00 am	EPA Environmental Line	Odour	Steepers Lane, Mount Fairy	Complainant reported being impacted by a “pungent waste/rubbish smell” that they allegedwas coming from the Woodlawn waste facility. They said there was no wind and believe there was an inversion layer overnight. They said they only smell the odour during certainwhether conditions, typically on still, foggy mornings.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/02/2023	9:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a “rotten garbage, sour milk, and dirty nappyodour”. They said they first noticed the odour at 9am and it was still present and gettingstronger at the time of their call at 10:09 AM. They rated the strength of the odour as 5/6 atthe time of their call and said they had to take clothing off the line as the odour gets into theclothes. They said they also had to close all windows and doors. They said “There is no breezeand there was thick fog earlier this morning. The fog has cleared now however, the odour iscontinuing”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/02/2023	8:50:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten egg mixed with sewerage smell” with astrength of 4/5. They said they needed to stop all outdoor activities, couldn’t complete theirmorning exercise and had to bring their washing in off the line.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/02/2023	8:00:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported presence of a “rubbishy/pooey” odour upon arrival at Tarago PublicSchool. Complainant advised that they have noticed the odour over the previous 2 days aswell, but today is much stronger and the first time that they could smell the odour inside theschool building. They rated the strength of the odour outside the building as 4.5/6. They said“There is no wind, weather is warm and humid and sultry”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/01/2023	8:00:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported presence of a “rubbishy/pooey” odour upon arrival at Tarago PublicSchool.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/01/2023	9:30:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten garbage smell”. They said it was fading atthe time of their call (9:49 AM) but was still recognisable.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/01/2023	8:00:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported presence of a “rubbishy/pooey” odour upon arrival at Tarago PublicSchool.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
28/01/2023	7:30:00 am	EPA Environmental Line	Odour	Steepers Lane, Mount Fairy	Complainant reported being impacted by “a very pungent waste/rubbish smell from thewaste facility”. They said they “usually only get the smell in certain weather conditions,however it is quite bad today”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/01/2023	Morning	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by an “unbearable” odour that they alleged wascoming from the Woodlawn eco precinct. They stated that “We live in Tarago and the odourfrom the Woodlawn eco precinct has been present and unbearable this week. A randomevent we can handle but not three days in a row, waking us from sleep and not being able toopen any windows in the heat is just not good enough. Getting very sick of putting up withVeolia’s negligence and non compliance with their EPL. The surrounding residents suffer andthere is no benefit from their activities for us.”	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/01/2023	5:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a “gas odour which reeks of garbage”. They saidthey had to shut all the windows in the house. They said they believe the odour is a “dangerto human health” and “EPA continually ignores it”. They said they have been calling for yearsand that members of the community have given up calling.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/01/2023	Morning	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by an “unbearable” odour that they alleged wascoming from the Woodlawn waste facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/01/2023	Morning	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by an “unbearable” odour that they alleged wascoming from the Woodlawn eco precinct.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/01/2023	7:20:00 am	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported being impacted by a “very intense, rotting garbage” odour that theyallege was coming from “the Veolia Waste Management/Eco Precinct”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/01/2023	7:19:00 am	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported being impacted by a “rubbish/gassy smell”. They stated that “The smellis currently coming through the house again this morning. It's strong enough to permeate theentire house and is causing nausea. Has anything at all been done to address this?”	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/01/2023	6:40:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by offensive “rotten rubbish” odour. They said theodour was so strong that they were experiencing it indoors with all doors and windowsclosed.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consultation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
18/01/2023	7:13:00 am	Website Feedback Form	Odour	Taylor's Creek Road, Tarago	Complainant reported being impacted by a “very strong odour” that smelt like garbage.	An operational odour source inspection was carried out for each of the individual Eco-Precinct facilities immediately following receipt of the complaint. The findings of the site inspections, combined with an assessment of meteorological data and operational activities was then undertaken in order to investigate the potential source or cause of odour. Although a number of improvement actions will be undertaken as a result of the site inspections, no unusual activities or conditions were identified.
09/01/2023	5:45:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten garbage” odour that they alleged wascoming from the Woodlawn waste facility. They said they first noticed it when they wentoutside at 5: 45 AM and that it was present for next one and half hours after that.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/01/2023	5:00:00 am	EPA Environmental Line	Odour	Mayfield Road, Tarago	Complainant reported being impacted by a “stinky smell like rotten garbage in the air”. Theysaid it had been present from 5 AM and was still present at the time of their call at 8:24 AM.They said “the smell has happened before, mostly when there is fog in the area and earlymorning”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/01/2023	7:53:00 am	EPA Environmental Line	Odour	Collector Road, Currawang	Complainant reported being impacted by an offensive odour that they attributed to theWoodlawn Bioreactor. They said the odour had a “composty/gassy smell”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/01/2023	4:53:00 pm	EPA Environmental Line	Odour	Collector Road, Currawang	Complainant reported being impacted by an offensive odour that they attributed to theWoodlawn Bioreactor. They said the odour had a “composty/gassy smell”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/01/2023	4:30:00 pm	EPA Environmental Line	Odour	Mooneys Road, Currawang	Complainant reported being impacted by an “unpleasant strong rotten rubbish / ammoniasmell that they alleged was coming from the Woodlawn waste facility. They said the odourwas “constant and very offensive so I had to remain inside”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
04/01/2023	8:22:00 pm	EPA Environmental Line	Odour	Collector Road, Currawang	Complainant reported being impacted by an offensive odour that they attributed to theWoodlawn Bioreactor. They said the odour had a “composty/gassy smell”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
03/01/2023	4:30:00 pm	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten garbage” odour that they alleged wascoming from the Woodlawn waste facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
03/01/2023	7:15:00 am	EPA Environmental Line	Odour	Cullulla Road, Tarago	Complainant reported experiencing “an unpleasant strong garbage smell”. They said therewas a slight breeze blowing from the west at the time and clear skies.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
03/01/2023	7:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by an “offensive odour from the Woodlawn Bioreactorsite” outside their house. They said they noticed the odour at 7 am and it was still present atthe time of their call at 9:18 AM. They described it as a “rotten garbage, sour milk and dirtynappy odour” and that it had a strength of 6/6. They said they were not able to put theirwashing on the line and that the smell made them gag.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/01/2023	3:30:00 pm	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten garbage” odour that they alleged wascoming from the Woodlawn waste facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
01/01/2023	8:00:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a “rotten garbage” odour that they alleged was coming from the Woodlawn waste facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
24/12/2022	8:30:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported being impacted by “a disgusting taint in the air”. They said “it wasstrongest from 8:30 to 9am. I noticed it at my house and also when driving through Tarago.Smell is consistent with the regular stench from the bioreactor”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/12/2022	6:40:00 am	EPA Environmental Line	Odour	Not provided	Complainant advised that there is a "major disturbing smell" around their property. Theystated that they first noticed it two days ago, and that it has gotten progressively worse overtime. They described the odour as a "sickening vomit smell".	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
23/12/2022	5:00:00 am	EPA Environmental Line	Odour	Glen Willow Road, Lower Boro	Complainant reported being impacted by a “putrid stench” that they alleged came from theWoodlawn Bioreactor. They said the odour “came in through our bedroom window overnightand assaulted the senses as I walked outside at approximately 5: 30am. It was so foul that itmade me retch and I needed to go back inside. It triggered a migraine for me. The stenchlingered until approximately 10am. I was sick for the rest of the day. I tried to go and dosome shopping before Christmas but I had to turn around at Tarago and return homebecause I felt so ill. I was ill for the remainder of the day. The weather was foggy in themorning with little wind. The odour was consistent with the stench from the bioreactor.”	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/12/2022	2:30:00 pm	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported initially being impacted by odour coming from Woodlawn WasteFacility at 10:00 AM and again at 2:30 PM, by when the odour had gotten really bad. Thecomplainant described the odour as "strong odour of rotten garbage" and stated that theyhad to close all windows and doors to their property.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/12/2022	2:00:00 pm	EPA Environmental Line	Odour	Mulwaree Street, Tarago	Complainant reported experiencing an odour coming from Woodlawn Waste Facility, whichthey first noticed at 2:00 PM. The complainant described the odour a being consistent with a "rubbish gassy smell".	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
22/12/2022	11:00:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a very strong, long-lasting odour from WoodlawnWaste Facility. The complainant described the smell of the odour as "unbearable" andcausing irritation to eyes and headaches. They stated that the odour was noticible for over 5hours.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/12/2022	10:30:00 am	EPA Environmental Line	Odour	Covan Creek Road, Lake Bathurst	Complainant reported being impacted by an offensive odour reportedly coming fromWoodlawn Waste Facility at 10:30 AM. The complainant stated that they could not workoutside on the farm due to the odour, and that they had to close all their windows.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/12/2022	10:10:00 am	Community Feedback Line	Odour	Covan Creek Road, Lake Bathurst	The complainant advised that they had detected a slight suphury smell in the air at their property which was different to what they had smelt in the past. They rated the odour to be a 5/10.	An operational odour source inspection was carried out for each of the individual Eco-Precinct facilities immediately following receipt of the complaint. The findings of the site inspections, combined with an assessment of meteorological data and operational activities was then undertaken in order to investigate the potential source or cause of odour. Although a number of improvement actions will be undertaken as a result of the site inspections, no unusual activities or conditions were identified.
22/12/2022	10:00:00 am	EPA Environmental Line	Odour	Not provided	Complainant reported being impacted by an offensive odour reportedly coming fromWoodlawn Waste Facility. They described the odour as a "sulphur smell" which they noticedwhen they exited their house at 10:00 AM.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
22/12/2022	7:22:00 am	EPA Environmental Line	Odour	Bywong	Complainant reported being impacted by a strong odour described as having a "compost" or"methane" type smell which was reportedly coming from Woodlawn Waste Facility. They are located more than 30 km away from the facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/12/2022	5:55:00 am	EPA Environmental Line	Odour	Mooneys Road, Currawang	Complainant reported being impacted by offensive odour coming from Woodlawn WasteFacility at 5:55 am. The complainant described the odour as a "rotting rubbish/ammonia"smell and stated that it was so unpleasant and constant that they were unable to remain inthe area.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
15/12/2022	12:10:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a strong odour coming from Woodlawn WasteFacility at 12:10 AM while driving into Tarago. The complainant described the odour as a "rubbish/rotting waste" smell and stated that the odour is so strong that it permeates closedcar windows.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
14/12/2022	5:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported being impacted by odour reportedly coming from Woodlawn WasteFacility at 5:00 AM when they went outside to tend to animals. They stated that the odourmade them feel nauseous so they had to return inside. The complainant described the odouras a 'horrendous stench' and that it is so thick that it makes them feel like they can't breathe.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
13/12/2022	10:15:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported experiencing a "strong rubbish/rotting waste odour" which they firstnoticed at 10:15 PM. The complainant advised that this odour, which is reportedly coming from Woodlawn Waste Facility, has been ongoing, daily issue for the last 12 months sincethey moved into their property.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
12/12/2022	7:00:00 am	EPA Environmental Line	Odour	Leahys Road and Cnr of Lumley Road and Braidwood Road, Tarago	Complainant reported being impacted by offensive odour allegedly coming from theWoodlawn waste facility. They said they noticed odour at 7 am at Leahys Lane, Tarago whichwas ongoing until 9 am. They also said that they noticed the odour at 7:45 am at the cornerof Braidwood Rd and Lumley Rd, Tarago and that the odour was so strong there that theycouldn't get out of their car.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/12/2022	7:30:00 am	EPA Environmental Line	Odour	Federal Highway, Collector	Complainant reported being impacted by a rotten egg type odour at about 7:30AM. Theysaid it was their first time reporting but not the first time they have noticed this smell. Theysaid the believed the smell was from “Veolia at Tarago”. They said they were planning onhanging out their clean washing but had to put it off until the smell goes away.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
08/12/2022	7:00:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant advised that they initially noticed odours coming from Woodlawn Waste Facilityat 7:00 AM and it was still obvious at 9:25 AM. The complainant rated the odour strength asa 4 and described the odour to smell like "rotting garbage, dirty nappies, sour milk". Thecomplainant advised that they are unable to hang up their washing or allow fresh air throughthe house.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
07/12/2022	7:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by odour from Woodlawn Waste Facility from 7:30PM. The complainant stated that the odour was very strong, constant, and lasted for a verylong time (till 10-11 PM). They rated the strength of the odour to be 5/5, and described thesmell of the odour to be organic with a gas smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
07/12/2022	6:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a "terrible odour" coming from Woodlawn WasteFacility, and described the odour to smell like "rotting garbage or dead animal". They statedthat they cound not eat their breakfast outside in the morning due to the odour being toostrong.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
06/12/2022	6:30:00 am	EPA Environmental Line	Odour	Mooneys Road, Currawang	Complainant reported being impacted by a "very strong" odour from Woodlawn WasteFacility from 9:30 AM. They describe the odour to smell like "rotting eggs and rottingvegetables" and rated the odour strength as 9/10. The complainant stated that they had their windows open overnight to regulate heat and by the morning the smell had seeped intotheir lounge room.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
29/11/2022	7:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by "strong offensive odour" coming from WoodlawnWaste Facility starting from 7:00 AM. The complainant rated the odour strength to be 6/6.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/11/2022	9:20:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by odour from Woodlawn Waste Facility as soon asthey exited their car at 9:20 PM, at their residence which is located approximately 10 kmfrom the facility. They described the odour as a "horrific highly offensive smell" and said thatthey immediately had to close all the windows to their house. The complainant expressedthat this is an ongoing issue that needs to be rectified and feel that Veolia are unable to properly manage the facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/11/2022	8:30:00 pm	EPA Environmental Line	Odour	George Street, Collector	Complainant reported being impacted by odour allegedly coming from Woodlawn wastefacility. They stated that the odour was thick and strong and it caused them to stay indoors.They rated the odour strength to be 7/10.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
23/11/2022	8:30:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by odour from Woodlawn Waste Facility at theirhouse at 8:30 PM, and stated that their son experienced the odour at 4 PM at the bus stopCnr Lumley Rd & Braidwood Rd Tarago. The complainant rated odour strength to be 5/6 , anddescribed the smell to be like "rotting garbage, sour milk, dirty nappies".	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
21/11/2022	7:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported experiencing odour coming from Woodlawn Waste Facility at 7 PM.They described the odour to be a "rotting garbage, sour milk and dirty nappies" smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/11/2022	6:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported being impacted by offensive odour reportedly coming from WoodlawnWaste Facility at their residence (6 AM and 9:30 PM), Cullulla Road (3 PM) and on CollectorRoad near the facility (from 4 PM to 4:45 PM). The complainant described the odour as 'vile'and reported that it made them nauseous and light headed. They also reported driving pastWoodlawn Waste Facility and noticing that something was being sprayed near the leachatedams.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
18/11/2022	6:30:00 am	EPA Environmental Line	Odour	Covan Creek Road, Lake Bathurst	Complainant reported being impacted by an "extreme smell" at their premises, which theydescribed as a "sulphur and rubbish odour", allegedly coming from Woodlawn Waste Facility.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/11/2022	5:30:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant called and reported that have been impacted by "gassy" odours being emittedby Woodlawn Waste Facility for four days (17.11.2022-20.11.2022). They stated that thedirection of the wind has made the odours more intense in recent times. The complainantsaid that they constantly have to keep the windows closed so the smell does not overtakethe house. They expressed that this ongoing issue is affecting their quality of life and health, and that on several occasions they have travelled to Canberra just to get a break from thesmell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/11/2022	8:52:00 am	Community Feedback Line	Odour	Covan Creek Road, Lake Bathurst	Complainant reported being impacted by a smell of rotten rubbish or a rubbish tip allegedly coming from Woodlawn. They advised that they experience the smell occasionally, particularly following inversion condtions.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/11/2022	8:00:00 am	EPA Environmental Line	Odour	Covan Creek Road, Lake Bathurst	Complainant repoted being impacted by a "gassy and rotting rubbish" odour from theWoodlawn Waste Facility at 8:00 AM when they went outside in the morning. They statedthat they could not work and had a headache from the overwhelming odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/11/2022	7:30:00 am	E-mail	Odour	Braidwood Road, south of Tarago	Complainant reported being impacted by a smell of rotten garbage. They said it had a strength of 1/5. They advised that the odour was detected while driving to Tarago.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
17/11/2022	5:30:00 am	EPA Environmental Line	Odour	Covan Creek Road, Lake Bathurst	Complainant reported being impacted by offensive odour, allegedly coming from theWoodlawn Waste Facility, in the morning when they exited their house. They described theodour as a "a very strong rotting and tip" smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
16/11/2022	7:30:00 am	EPA Environmental Line	Odour	Braidwood Road, south of Tarago	Complainant reported experiencing odours on Braidwood Road while driving to Tarago. Theydescribed the odour to be a "rotten garbage" smell and rated the strength of the odour to be1/5.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
16/11/2022	6:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported experiencing offensive odours at their home from 6 AM to 9AM. Theydescribed the odour to be like "meaty, rotten, wet, mouldering garbage that had beenpumped through a humidifier and was hanging in the air". They said that the odour madethem vomit and made them feel nauseous for most of the day. The complainant also statedthat they drove past Woodlawn Waste facility on Collector Road at 4:30 PM, and that thesmell there was "horrendous". They said it made them wretch as they drove and gave them aheadache.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/11/2022	6:00:00 am	EPA Environmental Line	Odour	Not specified	Complainant stated that they were affected by offensive odour coming from the WoodlawnWaste Facility between 6:00 AM and 9: 00 AM. They rated the odour strength as 5/6, anddescribed the odour as rotten garbage, sour milk, or soiled nappies. The complainant statedthat the odour was so bad that they had to close all doors and windows in the house, andthat the odour prevented them from doing daily chores.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
12/11/2022	4:30:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	Complainant reported being impacted by an offensive odour at their property, which theyalleged was coming from the Woodlawn Waste Facility. The complainant described theodour as a "rotting rubbish" smell and stated that it was consistent with previous odoursderived from the Woodlawn precinct.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
09/11/2022	2:25:00 pm	Community Feedback Line	Road Traffic	619 Collector Road, Tarago	Complainant advised that they were cut off by a silver prime mover with walking floor exiting the Woodlawn Eco-Precinct. This caused the driver to suddenly brake to avoid a collision.	Site management was advised, and a review of CCTV footage of vehicles leaving site was reviewed in order to identify the truck in question. The customer involved was notified, and
07/11/2022	6:00:00 am	EPA Environmental Line	Odour	Taylors Creek Road, Tarago	Complainant reported being impacted by odour, which they attributed to the WoodlawnWaste Facility, on Monday 7/11 (from 6:00 AM and again at 7 PM) and on Tuesday 8/11 (at7:30 AM). Complainant described the odour as being "very strong" and "offensive" and theyexpressed their frustration that the issue is continuing.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/11/2022	7:30:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complaint reported that a “low level odour around 4-5 out of 10” was present at theiraddress over the weekend and alleged that it was coming from “Veolia EnvironmentalServices”. They advised that they had a child staying with them over the weekend who had apre-existing cough that was exacerbated by the odour and resulted in them seeking medicaltreatment.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
02/11/2022	3:30:00 pm	EPA Environmental Line	Odour	cnr Lumley Rd and Braidwood Rd, Tarago	Complainant reported being impacted by an offensive odour described as the smell of "rotten garbage, dirty nappies and sour milk" at their premises. They rated the odour strength as 5/6. The complainant stated that the odour made them feel sick and want to vomit.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
31/10/2022	9:20:00 am	EPA Environmental Line	Odour	Currawang Rd, Tarago	Complainant reported experiencing a strong and constant "organic/compost" odour. They rated the strength of the odour to be 4/5. The complainant stated that could not go outside, hang washing, or open windows up due to the odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
30/10/2022	7:00:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a "sewerage" type odour at their residence at Rosebery Street, Tarago. The complainant rated the odour strength as 3/5. They additionally stated that they had to stop all outdoor activities stopped, and that their morning exercise not completed because of the odour.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
30/10/2022	2:00:00 am	EPA Environmental Line	Odour	Willow Glenm Road, Lower Boro	Complainant reported first noticing odour at 2:00 AM and stated that it was still present, but starting to fade, at the time of their report to the EPA at 5:26 AM. They described the odour as "being like methane and causing nausea like symptoms" and alleged that it was coming from the Woodlawn Eco-Precinct. The complainant also advised that the odour permeates through the vents of their business.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/10/2022	7:30:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by a strong rubbish and landfill type odour which they allege is coming from the Woodlawn Eco Precinct. The complainant rated the strength of the odour to be 7/10.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/10/2022	3:30:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a "rotten garbage" odour between 3:30 and 16.30 PM on Braidwood Road (just south of Tarago Public School) while driving. They rated the strength of the odour as 2/5. They stated that they changed the aircon over to internal circulation but could still not remove the smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/10/2022	3:30:00 pm	E-mail	Odour	Braidwood Road, south of Tarago and Tarago Public School	Complainant reported being impacted by a smell of rotten garbage from 3:30pm to 4:30pm. They said it had a strength of 2/5. Wind was reported to be a strong W or NW wind. They advised that the odour was detected while driving to Tarago. Changed aircon over to internal circulation - could not remove the smell. Odour was particularly strong south of Tarago on the Braidwood Road.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/10/2022	6:30:00 am	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a strong odour at their residence on Leahys Lane, Tarago, from 6.30am to 9.30am. The complainant described the odour to smell like "rotting garbage, dirty nappies, sour mild" and rated the odour strength to be 4/6.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/10/2022	6:10:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported experiencing a strong "landfill/waste odour" and alleged that the odour was coming from the Woodlawn Eco-precinct. They rated the strength of the odour as 7/10.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
26/10/2022	5:00:00 am	EPA Environmental Line	Odour	Willow Glen Road, Lower Boro	The complainant reported being impacted by a "dank, wet, garbage stench" at their residence, which they describe as being located approximately 15 km from the site. They described the odour to be strong from 5:00 AM until 11: am, and still noticeable but fainter at 1pm. The complainant stated that the smell made them want to vomit.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
25/10/2022	9:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Lake Bathurst	Complainant reported a strong "garbage" type odour that they alleged was coming from Woodlawn Waste Facility. They described the odour as being different to normal. The complainant expressed their concern about another facility being added to the premises, and more generally the effect that burning plastics and other contaminants, will have on the environment and human health.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
07/10/2022	4:10:00 pm	EPA Environmental Line	Odour	Wallace Street, Tarago	Complainant reported detecting an odour that they alleged was coming from the Veolia waste facility. They said they “noticed it in the main street of Tarago” and it was “worst I've ever noticed it".	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
05/10/2022	2:00:00 pm	EPA Environmental Line	Road Traffic	Bungendore Road, Tarago	Complainant reported that they were upset about the no. of heavy vehicles using this small country road (Bungendore Road).	Site management was advised of the complaint. Veolia is currently monitoring the no. of truck movements as result of the Facility's operations.
04/10/2022	8:10:00 am	EPA Environmental Line	Odour	Rosebery Street, Tarago	Complainant reported being impacted by an offensive odour that they alleged was coming from the Woodlawn Eco-precinct. They rated the strength of the odour as 7/10 and said the odour meant they could not work outside without feeling nauseous. They said they often detect landfill type odours at their residence at Rosebery Street, Tarago but don’t always report them but were compelled to call Environment Line on this occasion due to the	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/09/2022	8:30:00 am	EPA Environmental Line	Odour	Boro Road and Braidwood Road, south of Tarago	Complainant reported being impacted by a “rotten garbage” odour with a strength that they rated as 3/5. They said a very light NW breeze was present at the time and that they detected the odour at their property (near Boro Road) and while driving to Tarago long Braidwood Road. They said they changed the vehicle’s aircon over to internal circulation but could not remove the smell.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
27/09/2022	8:30:00 am	E-mail	Odour	Boro Road and Braidwood Road, south of Tarago	Complainant reported being impacted by a smell of rotten garbage from 8:30am to 10:30am. They said it had a strength of 3/5. Wind was reported to be a very Light NW wind.	Site Management replied to complainant via email to encourage them to report odourincidents such as these directly to Site to ensure a more timely investigation of potential odour sources and/or cause.
26/09/2022	7:30:00 pm	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a strong, offensive “rotten egg / sulphide” type odour at their residence at Braidwood Road, Tarago. They rated the strength of the odour as 5/5 and said it was entering their house. They reported that the odour was causing nausea, headaches and an inability to sleep.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/09/2022	7:45:00 am	EPA Environmental Line	Odour	King Street, Tarago	Complainant reported being impacted by an odour they alleged to be coming from Woodlawn Eco-Precinct. They said it “smells like a tip. As soon as you walk outside the door the smell hits you. As usual the house is all closed up because of the smell”.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
20/09/2022	7:10:00 am	EPA Environmental Line	Odour	Tarago Public School	Complainant reported being impacted by a “rotten garbage smell” when they were dropping their child at school. They said the odour was very bad at Cnr. Lumley and Braidwood Road Tarago and that they could not let child exit the car as they felt very nauseous.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/09/2022	8:00:00 pm	EPA Environmental Line	Odour	Leahys Lane, Tarago	Complainant reported being impacted by a “rotting garbage/dirty nappy smell” that they allege was coming from “Veolia Woodlawn”. They said it got progressively worse from 8pm and was still present when they went to bed.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.
19/09/2022	5:30:00 pm	EPA Environmental Line	Odour	Goulburn Street, Tarago	Complainant reported being impacted by an offensive odour that they alleged was coming from “the Veolia Woodland Eco Precinct”. They advised that it was a very windy evening and usually when its windy they don't get the odour but the wind direction has changed, coming from the west. They said the odour was very strong and that they had to close up the house and keep their children inside.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.

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Date	Time	Method	Type	Location	Description	Response/action taken to resolve the complaint
09/09/2022	10:30:00 am	EPA Environmental Line	Odour	Braidwood Road, Tarago	Complainant reported being impacted by a very strong “compost/organic smell” with a strength that they rated as 4/5. They said they could not go outside or open windows up.	An assessment of meteorological data and operational activity has been completed in order to investigate the potential source or cause of odour was undertaken. In consulation with the NSW EPA, an in-depth and detailed analysis approach to investigating reports of odour is being undertaken.