

# Annual Review

Erskine Park Waste Transfer Facility

Date:	November 2020
Prepared by:	Talis Consultants Pty Ltd and Cleanaway Waste Management Pty Ltd
Version:	Final

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# Title block

Name of Operation	Erskine Park Waste Transfer Station (Stage 1)	
Name of Operator	Cleanaway Waste Management Pty Ltd	
Development consent / project approval #	SSD 7075	
Name of holder of development consent / project approval	Cleanaway Waste Management Pty Ltd	
Annual Review start date	1 November 2019	
Annual Review end date	31 October 2020	

I, Stuart Baird, certify that this audit report is a true and accurate record of the compliance status of the Erskine Park Waste Transfer Station site for the period 1 November 2019 to 31 October 2020 and that I am authorised to make this statement on behalf of Cleanaway Waste Management Pty Ltd.

Note.

a) The Annual Review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).

Name of authorised reporting officer Title of authorised reporting officer Signature of authorised reporting officer Date Stuart Baird

Regional Manager

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27 November 2020

# **1. Statement of Compliance**

During the reporting period the Erskine Park Waste Transfer Station (WTS) had a high level of compliance with its major approvals. A summary of compliance against the major approvals is provided in **Table 1.** 

#### Table 1 – Statement of Compliance

Relevant Erskine Park WTS Approvals	Compliance (Yes/No)
SSD 7075	Yes
EPL 20986	No

The non-compliance identified during the 2019/2020 reporting period is summarised in **Table 2** and discussed further in **Section 11**. The non-compliance has been defined in accordance with the *Annual Review* Guideline (2015) presented in **Table 3**. The non-compliance was an administrative non-compliance against Environment Protection Licence (EPL) 20986.

#### Table 2 – Non-Compliances

Relevant Approval	Condition #	Condition Description	Compliance Status	Comment	Relevant Section of Annual Review
EPL 20986	Condition E3.2	Late submission of Odour Audit Report	Admin Non- Compliant	Non-compliance occurred on 21 November 2019	Section 11

#### Table 3 – Compliance Status Categories

Risk Level	Colour Code	Description
High	Non-Compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-Compliant	Non-compliance with potential for serious environmental consequences, but is unlikely to occur; or potential for moderate environmental consequences, but is likely to occur
Low	Non-Compliant	Non-compliance with potential for moderate environmental consequences, but is unlikely to occur; or potential for low environmental consequences, but is likely to occur
Administrative non-compliance	Non-Compliant	Non-compliance which does not result in any risk of environmental harm

**Section 6** provides detail on environmental performance for aspects including noise and air quality. Detail on the management of surface water and ground water at the Erskine Park WTS is provided in **Section 7.** 

# 2. Introduction

# 2.1 Annual Review

This document represents the third Annual Review for the site, as required under Condition C10 (Schedule C) of Development Consent SSD 7075, as modified. The Annual Review covers the period from 1 November 2019 until 31 October 2020.

# 2.2 Background

The Planning Assessment Commission (PAC), acting as delegate of the Minister for Planning, approved an application for the Erskine Park Waste and Resource Management Facility (WRMF) Staged Development Application (SSD 7075) on the 5 October 2016, comprising:

- A concept proposal for a Waste and Resource Management Facility with a maximum processing capacity of 300,000 tpa. All waste received at the WRMF shall enter the Waste Transfer Station (Stage 1), up to 150,000 tpa of this waste may be recycled at the Resource Recovery Facility (RRF) (Stage 2).
- Construction and operation of the Stage 1 Waste Transfer Station with a maximum processing capacity of 300,000 tpa.

The WRMF is to be developed in two stages, the first being a Waste Transfer Station (WTS), to which this Annual Review relates, and the second being a Resource Recovery Facility (RRF).

The WTS will receive commercial and household waste from the Western Sydney region which would subsequently be transported to a licenced waste management facility off-site. A proportion of the waste received at the WTS would be diverted to the RRF for recycling and recovery of saleable products. The design capacity of the completed WRMF is 300,000 tonnes per annum, inclusive of both stages.

A key consideration in the planning and design of the WTS has been to avoid impact on the amenity of the surrounding residential community, particularly in relation to odour, noise and traffic issues.

Construction of Stage 1 of the WTS was completed during the prior reporting period. The WTS was opened on the 14 December 2018 and commenced accepting waste on the 27 December 2018. Stage 2 (the RRF) will be developed at a later point. The WTS houses a manual sorting line where recyclables are harvested. Cleanaway will communicate with the Department of Planning, Industry and Environment (DPIE) prior to commencing works in association with Phase 2.

# 2.3 Site Description

The site is located approximately 11 kilometres south-east of Penrith in western Sydney, NSW (see **Figure 1**). It is addressed to 85-87 Quarry Road, Erskine Park NSW, and is identified as Lot 1 in Deposited Plan (DP) 1140063 in the Penrith Local Government Area (LGA). The title comprises approximately 3 hectares. As shown the site is west of and adjacent to the existing Erskine Park Landfill that is located adjacent to the site (Lot 4, DP 1094504).



SLR Consulting Australia Pty Ltd does not guarantee the accuracy of such information.

Projection:

The area surrounding the site is primarily industrial land uses, including Stramit Building Products, Dutt Transport, Viscount Plastics, Dincel Construction Systems, Suputo and Stockland to the south, Cleanaway Depot to the west, and the Cleanaway Erskine Park Landfill to the east.

The nearest residential dwellings are located within the suburb of St. Clair, approximately 0.7 km to the north of the site, and rural-residential properties located in Orchard Hills, approximately 0.7 km to the west of the site.

A child care centre is located approximately 670m to the west of the closest boundary of the site.

The layout of the WTS and site boundary (that encompasses Stage 1 and Stage 2 of the Development) is shown in **Figure 2.** The Site Layout for the Concept Plan and Full Site Development is provided in **Figure 3**.

The key components of the completed WTS are:

- A steel framed and clad waste transfer station building with associated offices, amenities and lower level transfer vehicle load-out area;
- A manual sort line within the WTS building for basic resource recovery;
- Fast acting roller shutter doors which will be normally closed;
- Transfer station working floor with concrete and asphalt peripheral roads;
- An active ventilation system and air treatment system with controlled discharge as part of the overall approach to air emissions and odour management;
- Associated infrastructure including all hardstand areas, car park, weighbridges, and sealed roads; and
- Ancillaries including perimeter security fencing, security gates, rainwater harvesting, fire suppression system, signage, landscaping, drainage and services.

The WTS has a nominal daily volume of approximately 1,040 tonnes of putrescible waste per day (design capacity 300,000 tonnes per annum [tpa]). However, subject to market factors, initially around 90,000 tpa of putrescible waste will be received at the site. During this reporting period, 115,082 tonnes of non-putrescible and putrescible waste was received at the site.

Waste delivery vehicles enter the site from the adjoining Quarry Road and weigh on the incoming weighbridge located adjacent to the office. Delivery vehicles then proceed to the eastern side of the building where they align with one of the roller shutter door entrances on the eastern elevation. The vehicles reverse through one of the rapid acting roller shutter doors, discharge their waste and then drive out of the building, down a ramp and proceed to the south of the transfer station towards the outgoing weighbridge, exiting the site onto Quarry Road. The majority of the material received is waste from commercial waste collection trucks, stationary compactor (packer) hooklift loads and side-loader collections (e.g. 240L mobile garbage bin collections from commercial premises).

Waste offloaded on the tipping floor is separated into two categories: putrescible and non-putrescible incl. wood, masonry, rigid plastics, and old corrugated cardboard. The non-putrescible waste is sorted for recycling, while the remaining waste is consolidated with the putrescible waste and transferred into transfer vehicles by a front-end loader which lifts the material over a wall opening for top loading.





Waste is transferred from the site using B-Doubles or single trailers to an appropriately licensed waste management facility in accordance with relevant waste management regulations. Recyclables are transported off-site by semi-trailers to a various offtake markets.

When the RRF is operational, waste deemed suitable (recyclable) would be diverted to the RRF for recycling and recovery of saleable products.

The site does not have any required biodiversity/conservation offset areas.

During the prior reporting period construction of the WTS was completed, and operations commenced on 14 December 2018.

# 2.4 Key Contact Details

The contact details for the person responsible for environmental management and community relations of Cleanaway during the reporting period is provided in **Table 4.** 

#### Table 4 – Contacts for Erskine Park WTS

Contact	Position	Contact Details
1. Paul Spolder	Branch Manager	Ph: (02) 9834 0402 Email: Paul.Spolder@cleanaway.com.au
2. Stuart Baird	Regional Manager	Ph: (02) 8602 8731 Email: Stuart.Baird@cleanaway.com.au
3. Orhan Cambaz	Senior Environmental Business Partner	Ph: (02) 9834 0400 Email: Orhan.Cambaz@cleanaway.com.au

# 3. Approvals

# 3.1 Development Consent

As mentioned in **Section 2.2** above, the construction and operation of the Stage 1 WTS was approved on the 5 October 2016. Since the approval of the Development, four modifications (Mods) to the Development Consent have been approved by the DPIE, as below:

- In July 2017 a Development Approval (DA) Modification document (Mod 1) was submitted to the DPIE to request a number of modifications to the Development design and Concept Plan. These modifications included; changes to site levels, construction of an interim carpark, use of a temporary office, removal of truck parking, construction of landfill entry and exit ramps, amendment to the load out area and amendment to the stormwater management system. The DA Mod 1 was approved by DPIE on 28 August 2017;
- Modification 2 (Mod 2) was approved on the 26 February 2018. Mod 2 sought to increase site levels and relocate the car park, to a location adjacent to the inbound road;
- Modification 3 (Mod 3) was approved by DPIE on the 24 October 2018, to install a manual sorting line in the WTS; and
- Modification 4 (Mod 4) was approved by the DPIE on the 25 October 2018, to extend construction hours.

# 3.2 Environment Protection Licence

EPL 20986 was obtained from the EPA on the 18 September 2017, which covered the construction phase of the WTS.

An application was submitted by Cleanaway to vary the EPL, to support the operational phase of WTS. The EPL variation was granted on 30 November 2018.

# 3.3 Sydney Water Approvals

In accordance with Condition B23 of the Development Consent SSD 7075, as modified, a Section 73 Compliance Certificate covering water and sewer requirements for the Development was obtained from Sydney Water for the site. Building Plan approval was also obtained from Sydney Water.

A Trade Waste Agreement exists between Cleanaway and Sydney Water for the site (landfill), allowing for a maximum discharge volume of 1036kL/day and average daily discharge of 750kL/day average. The Trade Waste Agreement was maintained for the construction and operations of the WTS.

# 4. **Operations Summary**

The WTS operated throughout the entire reporting period, relevant to this Annual Review. A summary of operational activities is provided in the sections below.

# 4.1 Waste Received and Processed

The amount of waste that was received at the WTS for the reporting period is outlined in **Table 5**, below. The total amount of waste that was received and processed at the site was 115,131 tonnes. This amount was within the site's maximum processing capacity of 300,000 tpa, as set by SSD 7075, as modified, and EPL 20986.

Month	Waste
	(tonnes)
November 2019	10,251
December 2019	9,330
January 2020	8,948
February 2020	11,107
March 2020	11,005
April 2020	8,051
May 2020	8,288
June 2020	9,037
July 2020	9,970
August 2020	9,406
September 2020	10,040
October 2020	9,698
Total	115,131

#### Table 5 – Waste Volumes Received at the WTS

#### **Resource Recovery**

The amount of waste that was recovered by the sorting line during the reporting period was 28,461 tonnes, as outlined by **Table 6**.

#### Table 6 – Waste Recovered at the WTS

Month	Waste (tonnes)
November 2019	0
December 2019	0
January 2020	0
February 2020	567
March 2020	970
April 2020	785
May 2020	70
June 2020	894
July 2020	959
August 2020	817
September 2020	925
October 2020	46
Total	6,033

#### **Transportation Rates**

The number of trucks that entered and left the site with waste and recyclables is provided in **Table 7**. A total of 22,962 waste trucks entered the site and a total of 8,212 trucks left the site with compacted waste, during the reporting year, 376 trucks left the site with recyclables, during the reporting period.

The Environmental Impact Statement (EIS) (SLR 2015a) predicted approximately 200 inbound waste delivery vehicles per day (or 72,800 incoming trucks per year) and approximately 30 outbound waste transfer vehicles would depart the site each day (or 10,920 outgoing trucks per year). These predicted totals are inclusive of Phase 1 and 2 of the Development. Actual numbers of incoming and outgoing waste transfer vehicles are currently less than those predicted in the EIS.

Month	Refuse Collection Vehicles Entering the site with Waste	Trucks Leaving the site with Waste	Trucks Leaving the site with Recyclables
November 2019	2,087	467	0
December 2019	1,931	434	0
January 2020	1,921	393	0
February 2020	1,987	732	25
March 2020	2,111	878	45
April 2020	1,612	711	39
May 2020	1,672	722	34

#### Table 7 – Transportation Rates

Month	Refuse Collection Vehicles Entering the site with Waste	Trucks Leaving the site with Waste	Trucks Leaving the site with Recyclables
June 2020	1,779	761	44
July 2020	1,973	807	49
August 2020	1,878	743	44
September 2020	2,047	814	50
October 2020	1,964	750	46
Total	22,962	8,212	376

#### Employees

During the reporting period 15 people were employed at the WTS. This number of employees is less than the anticipated number of employees at the site (25 people), as outlined in the *Erskine Park Waste and Resource Management Facility Modification to Approved SSD 7075 Environmental Assessment Report* (EME 2018).

#### **Operational hours**

The WTS is permitted to operate 24/7, in accordance with Condition B28, Schedule C, of SSD 7075, as modified. Actual operating hours during the reporting period were generally 3am till 6pm at the WTS, with the sort line 24/5.

The sort line was not operational from the start of the reporting period, and recommenced operations in January 2020.

## 4.2 Next Reporting Period

Works and operations to be undertaken at the site during the next reporting period are discussed in **Section 12.** 

# 5. Previous Annual Review and Independent Environmental Audit Actions

Following lodgement of the previous Annual Review, no further actions or requests were received to Cleanaway's understanding.

During the reporting period, Cleanaway commissioned an Independent Environment Audit (IEA), in accordance with Condition C8 and C9 (Schedule C) of SSD 7075 (as modified). Refer to **Section 10** for further details regarding the IEA. **Table 8** provides the status of the IEA action items. Outstanding action items to be reported in the next Annual Review.

ltem No.	Reference	Observation / Non- compliance	Recommended Action	Timeframe for Completion / Implementation	Status		
SSD 707	SD 7075 Conditions of Consent						
1	Consent Condition B4	Dust Management Implement a daily inspections schedule to check on sedimer accumulation on the hardstar with at least daily sweeping ir areas where there is a risk of sediment tracking or accumulation.		2 Months	Completed		
2	Consent Condition B11		Ensure training for employees on general housekeeping responsibilities, and litter and odour management is current.		Completed		
3	Consent Condition B15	Sediment and Implement a daily inspections 2 Months erosion control schedule to check on sediment accumulation on the hardstand, with at least daily sweeping in areas where there is a risk of sediment tracking or accumulation.		2 Months	Completed		
	Consent Condition B20		Ensure training for employees on general housekeeping responsibilities, and litter and odour management is current.		Completed		
4	4		Implement a programmed maintenance schedule for inspection, monitoring and maintenance of stormwater quality improvement devices installed at the facility to ensure		Completed		

#### Table 8 – Status of IEA Action Items

ltem No.	Reference	Observation / Non- compliance	Recommended Action	Timeframe for Completion / Implementation	Status
			devices are adequately maintained.		
5	Consent Condition B33	Landscaping	Implement post-establishment maintenance program as per the approved Landscape Plan ensure landscaped areas remain sufficiently vegetated to prevent erosion.	30 November 2020	In process (to be reported in next Annual Review).
EIS Stat	ement of Commi	tments			
6	Statement of Commitment 7.4.5	Landscaping	Implement post-establishment maintenance program as per the approved Landscape Plan ensure landscaped areas remain sufficiently vegetated to prevent erosion.	30 November 2020	In process (to be reported in next Annual Review).
7	Statement of Commitment       Sediment and erosion control       Implement a daily inspections       3 Months         7.6.4       accumulation on the hardstand, with at least daily sweeping in areas where there is a risk of sediment tracking or accumulation.       3 Months		3 Months	Completed	
		Ensure training for employees on general housekeeping responsibilities, and litter and odour management is current.		Completed	
EPL 209	86 Licence Condi	tions			
8	Condition O3.2 and Condition L1.1	Sediment and erosion control and compliance with section 120 of the Protection of the Environment Operations Act 1997	Update the Operational Environmental Management Plan (OEMP) and Appendix F (Stormwater Maintenance and Operations Plan) to include procedures for regular sweeping of hardstand areas (e.g. daily) to reduce the potential for stormwater pollutants leaving the site.	31 October 2020	Completed
			Implement a daily inspections schedule to check on sediment accumulation on the hardstand, with at least daily sweeping in areas where there is a risk of sediment tracking or accumulation.	2 Months	Completed
9	Condition O3.3		Establish vegetation in the areas that is consistent with Appendix I (Landscape Plan) of the OEMP to	31 October 2020	In Process (to be reported in next

ltem No.	Reference	Observation / Non- compliance	Recommended Action	Timeframe for Completion / Implementation	Status
			control sediment generation from the Stage 2 area.		Annual Review).
10	Condition E2.1	Spill management	Ensure training for employees on general housekeeping is current	2 Months	Completed

# 6. Environmental Performance

# 6.1 Meteorological

#### **Environmental Management**

Condition A9 (Schedule C) of SSD7075, as modified, and Condition M2.2 of EPL 20986 require continuous meteorological monitoring at the site. Cleanaway has established a weather station at the site. The weather station is in the south-east corner of the site, adjacent to the landfill.

#### **Environmental Performance**

#### **Rainfall Monitoring**

Monthly rainfall recorded at Erskine Park WTS during the reporting period is provided in Table 9.

Month	Rainfall (mm)
November 2019	28.4
December 2019	3.0
January 2020	51.8
February 2020	451.4
March 2020	121.6
April 2020	46.6
May 2020	52.2
June 2020	27.0
July 2020	134.6
August 2020	66.6
September 2020	28.2
October 2020	132
Total	1143.4

#### Table 9 – Monthly Rainfall Totals

From November 2019 to October 2020, 1143.4 mm of rainfall was recorded at the site. The majority of the rainfall was recorded during the first part of 2020, with the largest monthly rainfall recorded as 451.4 mm in February 2020. The rainfall recorded at this site during the reporting period was more than the rainfall recorded during the prior year (811 mm).

The Bureau of Meteorology (BOM) long term rainfall data is publicly available at nearby monitoring stations at Shanes Park (067081), between 2017 and 2020, and Erskine Park Reservoir (067066), between 2013 and 2020. Total rainfall at these monitoring locations was 918.8 mm and 1075 mm, respectively, during the reporting period.

#### Wind Monitoring

Wind velocity and direction are measured at the Erskine Park weather station. Wind was generally from a southerly direction, from November 2019 to February 2020, and from a westerly direction from March to May 2020. Between August and September 2020 wind was generally from a northly direction.

#### **Comparison against EIS Predictions**

No relevant predictions for weather/climate are provided in the EIS (SLR 2015a).

#### **Incidents and Improvements**

The weather station was fully operational during the reporting period. There were no incidents related to the weather station.

The weather station will be operated and maintained during the next reporting period.

## 6.2 Noise and Vibration

#### **Environmental Management**

#### Noise

Noise mitigation measures as outlined in the OEMP (SLR 2018a) were implemented at the site during the reporting period to control operations noise (refer to **Table 10** below). Hours of operation of the WTS are unlimited (i.e. 24/7), however during the reporting period the site only operated between 3am till 6pm, with the sort line 24/5.

#### Table 10 – Noise Mitigation Measures

Development Consent Condition	Mitigation Measure
Condition B29, Schedule C	Best management practice is implemented at the site, including all reasonable and feasible noise management and mitigation measures to prevent and minimise operational, low frequency and traffic noise.
Condition B29, Schedule C	Noise impacts of the Development are minimised during adverse meteorological conditions.
Condition B29, Schedule C	Noise suppression equipment on plant is maintained.
Condition B29, Schedule C	Defective plant is not used, until it is fully repaired.
Statement of Commitments	All Cleanaway owned vehicles operating on the site are fitted with the High and Low Buzzer system, designed to minimise noise associated with reversing alarms.
Condition B29c), Schedule C	Cleanaway regularly assess noise emissions and relocate, modify and/or stop operations to ensure compliance with the relevant conditions of consent (SSD 7075).
Statement of Commitments	All mobile plant operating inside the WTS building are fitted with low frequency white noise reversing alarms.

Both the Development Consent and EPL 20986 do not require noise monitoring to be conducted at the site, although condition L3.1 of EPL 20986 sets the noise limit for the site. Noise emissions from

the WTS are required to comply with the requirements of the NSW EPA's Industrial Noise Policy, in accordance with Condition L3.1, EPL 20986. The Policy recommends that LAeq noise levels arising from industrial noise sources should not exceed the levels indicated in **Table 11**.

Receiver	Noise Amenity Area	Time of Day <sup>1</sup>	Recommended Amenity Noise Level LAeq(period)
	Rural	Day	50 dBA
		Evening	45 dBA
		Night	40 dBA
	Suburban	Day	55 dBA
Residence		Evening	45 dBA
		Night	40 dBA
	Urban	Day	60 dBA
		Evening	50 dBA
		Night	45 dBA
Hotels, motels, caretakers' quarters, holiday accommodation, permanent resident caravan parks	See column 4	See column 4	5 dB(A) above the recommended amenity noise level for a residence for the relevant noise amenity area and time of day
School classrooms - internal	All	Noisiest 1- hour period when in use	35 dBA
Hospital ward internal external	All	Noisiest 1- hour	35 50
Area specifically for passive recreation	All	When in use	50 dBA
Active recreation area (e.g. School playground, golf course)	All	When in use	55 dBA
Commercial premises	All	When in use	65 dBA
Industrial premises	All	When in use	70 dBA
Industrial (applicable only to residential noise amenity areas)	All	All	Add 5 dB(A) to recommended noise amenity area

Table 11 – Recommended LAeq Noise Levels from Industrial Noise Sou	rces
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Noise monitoring was not undertaken at the site during the reporting period, as this is not required.

#### Vibration

Vibration limits have been set for the site. The vibrations limits are continuous or impulsive vibration criteria included in EPA's *Assessing Vibration: A Technical Guideline* (February 2006) at residential receivers. These criteria are provided in **Table 12**.

Table 12 – Preferred and maximum weighted root mean square (rms) values for continuous and impulsive vibration acceleration (m/s2) 1–80 Hz

Location	Assessment period <sup>1</sup>	Preferred values		Maximum values	
		z-axis	x- and y-axes	z-axis	x- and y-axes
Continuous vibration	Day- or night-time	0.0050	0.0036	0.010	0.0072
Critical areas <sup>2</sup>	Daytime	0.010	0.0071	0.020	0.014
Residences	Night-time	0.007	0.005	0.014	0.010
Offices, schools, educational institutions and places of worship	Day- or night-time	0.020	0.014	0.040	0.028
Workshops	Day- or night-time	0.04	0.029	0.080	0.058
Impulsive vibration					
Critical areas <sup>2</sup>	Day- or night-time	0.0050	0.0036	0.010	0.0072
Residences	Daytime	0.30	0.21	0.60	0.42
	Night-time	0.10	0.071	0.20	0.14
Offices, schools, educational institutions and places of worship	Day- or night-time	0.64	0.46	1.28	0.92
Workshops	Day- or night-time	0.64	0.46	1.28	0.92

1 Daytime is 7.00 am to 10.00 pm and night-time is 10.00 pm to 7.00 am

2 Examples include hospital operating theatres and precision laboratories where sensitive operations are occurring. There may be cases where sensitive equipment or delicate tasks require more stringent criteria than the human comfort criteria specified above. Stipulation of such criteria is outside the scope of this policy, and other guidance documents (e.g. relevant standards) should be referred to. Source: BS 6472–1992

Vibration monitoring is not required to be undertaken at the site.

#### **Environmental Performance**

No noise or vibration monitoring was undertaken during the reporting period as this is not required for the site.

Noise and vibration were kept within reasonable levels at the site by implementing mitigation measures, with no noise or vibration complaints received, and no remedial actions/additional mitigation measures required to be implemented during the reporting period.

#### **Comparison against Predictions**

A comparison against predictions made in the EIS or trends in data is not provided as there was no noise or vibration monitoring required to be undertaken at the site, during the reporting period.

#### **Incidents and Improvements**

No reportable incidents associated with noise or vibration occurred during the reporting period. Subsequently, no improvements related to these aspects will be implemented during the next reporting period.

## 6.3 Blasting

Blasting was not required for the operational works.

# 6.4 Air Quality

#### **Environmental Management**

Air Quality (dust and odour) mitigation measures were undertaken at the site during the reporting period, as specified by the OEMP (SLR 2018a).

In accordance with Condition B10 (Schedule C) of SSD 7075, as modified, an Odour Management Plan (OMP) was prepared for the Development. Relevant mitigation measures in the OMP were implemented at the site during the reporting period.

Prior to the commencement of operations of the site, the Odour Management System (OMS) was installed, tested and commissioned. The OMS consist of:

- (i) A wet scrubber;
- (ii) Dilution stacks (Tri-stack system);
- (iii) Fast acting roller doors; and
- (iv) Water sprays/misters.

The OMS will be maintained during the operation of the site.

A meteorological station has also been installed at the site that complies with the requirements in the latest version of the Approved Methods for Sampling of Air Pollutants in New South Wales. Cleanaway continuously operated the meteorological station during the reporting year and maintained records of meteorological data.

A dust monitoring program was undertaken at the site during the previous reporting period, while construction works were undertaken, in accordance with the Statement of Commitments requirements in Appendix 3 of SSD 7075, as modified. Dust monitoring was not required to be undertaken during site operations.

Odour monitoring was undertaken during the reporting period in accordance with the SSD 7075 statement of commitments. Odour monitoring was undertaken monthly between 26 November 2019 and 19 June 2020 and on a quarterly basis from 29 June 2020 to 23 September 2020 by the Odour Unit (TOU). From June 2020 monthly odour monitoring was no longer required at the site. On the 16 June 2020, the EPA agreed to reduce the odour monitoring frequency from monthly to quarterly.

The odour monitoring determined that the WTS did not have reasonable potential to impact the residential communities of Erskine Park, St Clair and Minchinbury.

No complaints regarding odour were received during the reporting period.

#### **Comparison against Predictions**

The EIS (SLR 2015a) stated that with air pollution controls the odour impact is contained to within the industrial area and avoids impact on residential areas. The findings of odour monitoring undertaken during the reporting period is in accordance with this prediction.

#### **Incidents and Improvements**

No reportable incidents or complaints related to air quality occurred during the reporting period.

## 6.5 Biodiversity

The site is highly disturbed. There is little remnant vegetation at the site. Areas of vegetation are predominantly maintained lawns of exotic grasses (Couch and Kikuyu) and weeds (Paddy's Lucerne, Cobblers Peg Red-flowered Mallow), with scattered planted trees (Sydney Blue Gum, Blackbutt, Lemon-scented Gum and Spotted Gum). Most of this remnant vegetation was cleared to make way for the construction of the WTS, although no trees were removed from the site.

The SSD approval does not prescribe the establishment or management of any biodiversity/conservation offset areas. Additionally, the Development did not require referral under the *Environment, Protection and Biodiversity Conservation Act, 1999* (EPBC Act) (C'wealth).

During the reporting period Spotless installed baits around the WTS to control vermin.

## 6.6 Heritage

The site does not contain any Aboriginal and Non-Aboriginal heritage sites.

# 6.7 Traffic

#### **Environmental Management**

During the reporting period traffic was managed in accordance with the OEMP (SLR 2018a). **Table 13** lists additional management and mitigation measures that have been implemented during the reporting period to minimise the impacts of traffic and access.

#### Table 13 – Traffic Mitigation Measures

Development Consent Condition	Mitigation Measure
EIS Appendix A (Section 7.5)	Methods of communication are by two-way radio, mobile phone, visual and verbal. Site supervisors, traffic controllers and employees/contractors (as appropriate) have a two- way radio to be contactable at all times. The communication channels for two-way radio are advised.

#### **Environmental Performance**

Transport rates during the reporting period are presented in **Section 4.1**.

No complaints related to construction or operations traffic were received during the reporting period.

#### **Comparison against Predictions**

The EIS (SLR 2015a) predicted that at full operation the total number of inbound vehicles delivering waste to the Erskine Park WRMF would be in the vicinity of 200 per day. The number of outbound waste transfer vehicles from the WTS was estimated at approximately 30 larger vehicles (semi-trailers

and B-doubles per day). The actual traffic experienced at the site during the reporting period was less than predicted, with incoming traffic volumes 31.5% and outgoing traffic 78.4% of that predicted.

#### **Incidents and Improvements**

No reportable incidents related to operations traffic occurred during the reporting period.

## 6.8 Waste Management

During the reporting period waste was managed in accordance with the Operational Waste Management Plan (OWMP) (SLR 2018a). Additional waste management measures that were implemented at the site are included in **Table 14**. Waste generated at the site was managed appropriately.

#### Table 14 – Waste Management Measures

Development Consent Condition	Mitigation Measure	
Development Consent Condition B1	Only materials and waste is received at the site, which are permitted by the site's EPL 2093.	
Waste Reuse, Recycling a	nd Disposal	
EIS Appendix I (Section	Green waste is mulched and re-used in landscaping on-site or used off-site.	
5.5) EIS Section 7.12.4	Waste oil was recycled or disposed of in an appropriate manner.	
	All used crates were stored for reuse, unless damaged.	
	All asbestos, hazardous and/or intractable wastes would be disposed of in accordance with WorkCover Authority and EPA requirements.	
	Provision is made on-site for the collection of batteries, fluorescent tubes, smoke detectors and other recyclable resources.	
	Container and paper/cardboard recycling is provided on-site for employee use. Alternatively, these items are separated at an appropriately licensed facility and sent for recycling.	
	All waste generated at the site is disposed of via a council approved system.	

#### **Environmental Performance**

No complaints were received about waste and there were no incidents relating to waste.

#### **Incidents and Improvements**

No reportable incidents related to waste (generated from site activities) occurred during the reporting period.

During the next reporting period the site's waste management program will continue to be implemented, in accordance with the site's OWMP. In accordance with this Plan, operations waste will continue to be sent to a licenced landfill facility and disposed of in an approved manner. Operations waste will also be recycled, where possible.

# 6.9 Visual Amenity

#### **Environmental Management**

Management and mitigation measures were implemented at the site during the reporting period to minimise direct and indirect impacts on visual amenity, in accordance with the OEMP (SLR 2018a). The screen adjacent to the site office (refer to Photo 1, below) and the landscaping at the site was maintained during the reporting period.



Photo 1 Screen and Landscaping Adjacent to the Site's Office

#### **Environmental Performance**

No complaints regarding visual impacts were received by the site.

#### **Comparison against Predictions**

A Visual Impact Assessment (VIA) (Green Bean Design 2015) was undertaken (As part of the EIS) to assess the impact of the Development on the existing landscape character of the surrounding environment. The VIA found that the Development is consistent with the existing industrial development and with the implementation of identified mitigation measures it would have limited visual impacts during operations. The Development would therefore have negligible impact on the visual amenity of people living in or traveling through the landscape of the surrounding area. All the required mitigation measures were undertaken during the reporting period; therefore, the visual impacts of the Development were consistent with the EIS predictions.

#### **Incidents and Improvements**

No reportable incidents related to visual impacts occurred during the reporting period. Therefore, no visual amenity improvements are proposed for the site during the next reporting period.

# 6.10 Contamination

#### **Environmental Management**

Mitigation measures were implemented during the operation of the site in accordance with the OEMP (SLR 2018a) to minimise the potential for contamination.

Any non-conforming waste transported to the WTS was separated and managed and disposed of appropriately.

#### **Environmental Performance**

During the reporting period 1,195 tonnes of non-conforming waste (mattresses, tyres etc) was received by the site.

During the reporting period no complaints regarding contamination or non-conforming waste were received.

#### **Comparison against Predictions**

The EIS (SLR 2015a) did not quantify (predict) the amount of non-conforming waste that could potentially be brought to the site. No comparison is therefore made.

#### **Incidents and Improvements**

During the reporting period there were no accidental spills of chemicals/hydrocarbons.

Any non-conforming waste that is brought to the site in waste loads will be managed appropriately, during the next reporting period.

# 7. Water Management

The sections below provide details regarding water management and water monitoring results for the site, during the reporting period.

The site does not have any water licences therefore water take is not reported. In addition, the site does not discharge water (besides sewage), belong to a salinity trading scheme or provide compensatory water to other users.

# 7.1 Surface Water

#### **Environmental Management**

During the reporting period, mitigation measures were implemented to minimise direct and indirect impacts on surface water. These were undertaken in accordance with the OEMP (SLR 2018a). Cleanaway also complied with Section 120 of the *Protection of Environment Operations (POEO) Act 1997*, during the reporting period.

A Stormwater Management Scheme (Stormwater Maintenance and Operations Plan [SMOP] [SLR 2018b)) has been prepared for the site, consistent with the Stormwater Management Plan for the catchment, in accordance with Condition B16 (Schedule C) of SSD 7075, as modified. Implementation of the scheme will mitigate the impacts of stormwater run-off from and within the site. The SMOP stormwater controls were implemented during the reporting period.

The SMOP also outlines the stormwater quality monitoring for the site, as summarised in Table 15.

Parameter	Default Trigger Value*	Inspection Frequency	Responsibility
Chlorophyll a (Chl a) (mg/L)	0.003		
Total Phosphorous (TP) (mg/L)	0.025		
Filterable reactive phosphate (FRP) (mg/L)	0.02	02 35 04 Monthly during discharge for first year and	
Total Nitrogen (TN) (mg/L)	0.35		Cleanaway
Oxides of Nitrogen (NOx) (mg/L)	0.04		
Ammonium (NH4+) (mg/L)	0.02	bi-annually during discharge thereafter	cicanaway
Dissolved oxygen (DO) (daytime % saturation)	85% - 110%		
рН	6.5 – 8.5		
Salinity (µS/cm)	125 – 220 **		
Turbidity (NTU)	6-50 ***		
Total Suspended Solids	50mg/L		

#### Table 15 – Stormwater Water Quality Monitoring Program

The SMOP also outlines the stormwater structures monitoring and maintenance program that is summarised in **Table 16**.

System / Device	Inspection / Maintenance Tasks	Responsibility	Inspection Frequency	Mitigation Actions
Bioretention Vegetation	Check for weeds. Check health of plants. Note – the health of the plants is crucial to the treatment process.	Landscape Contractor	Monthly for first 6 months and Quarterly thereafter	Control weeds Replacement of plants as required. Investigate causes of significant die back / dead plants.
Bioretention Filter Media Surface	Inspect filter media for sediment build up, litter, erosion or scour damage.	Cleanaway	Monthly and after heavy rainfall events (>30mm in 24 hours) for first 6 months and Quarterly thereafter	Removal of any litter from bioretention filter media surface. Scrape away small amounts of isolated sediment build up (if required). Seek advice from a suitably qualified stormwater engineer or consultant where significant erosion, scour or filter media damage is observed.
Basin Inlet Forebay	Inspect forebay for litter and sediment build up. Check depth of sediment in forebay.	Cleanaway	Quarterly	Remove any litter from forebay. Schedule removal of sediment to rock level if greater than 50% of forebay is full of sediment.
Basin Inlets and Outlets	Inspect inlets and outlets for blockage and debris.	Cleanaway	Monthly and after heavy rainfall events (>30mm in 24 hours)	Unblock inlets and outlets if required. Seek advice from a suitably qualified stormwater engineer or consultant where inlets or outlets are significantly damaged.
Bioretention Underdrainage	Inspect for blockages and isolated surface ponding.	Cleanaway	Quarterly	Flush underdrainage at flush points if required.
Humeceptors	Inspection in accordance with Humeceptor inspection procedures.	Cleanaway / Contractor	Quarterly for first year. Establish appropriate frequency based on findings of first year of inspections.	Schedule cleaning as required.

 Table 16 – Stormwater Structures Monitoring and Maintenance Program

System / Device	Inspection / Maintenance Tasks	Responsibility	Inspection Frequency	Mitigation Actions
	Cleaning in accordance with Humeceptor cleaning procedure	Vacuum / eductor truck contractor	Annually – subject to inspection observations.	Not applicable
Atlantis Flow- Tank OSD System	Inspect for blockages and sediment build up including inlet and outlet pipes	Cleanaway	Bi-annually	Remove blockages and de-silt as required.
Pits and Pipes (including trash racks and Ecosol Litter Baskets)	Inspect for blockages and debris, or excessive build-up of sediment	Cleanaway	Quarterly for first year. Establish appropriate frequency based on findings of first year of inspections.	Remove blockages and debris as required manually or via vacuum.
Rainwater tanks	Inspect the structural integrity of the tank, blockages, sediment build up and evidence of animal access including the associated pipework, inlets / outlets, insect proofing and leaf filters.	Cleanaway	Quarterly for first year and bi-annually thereafter.	Cleaning and repair of tank as required. Seek advice from a suitably qualified consultant where structural damage is observed. If significant issue is observed, then the access points will be temporarily closed.
Roof gutters	Check for accumulated debris including leaf litter.	Cleanaway	Annually	Clean out of gutters.
Bunded areas	Inspect for spills and integrity of bunds.	Cleanaway	Weekly	Disposal of any spilled hazardous materials in a suitable manner. Re-instate bunds as required.

Leachate is managed at the WTS in accordance with the Leachate Management System (Protocol), in accordance with Condition B17 of SSD 7075. In accordance with the Protocol, leachate from the WTS operations was transferred to the adjacent leachate treatment plant (LTP) for treatment, refer to **Figure 2**. Once treated, the leachate was then discharged into the Penrith City Council (PCC) sewer system in accordance with the existing trade waste discharge agreement with Sydney Water. No leachate was sent off-site for treatment, during the reporting period.

Water quality monitoring of the treated leachate in the LTP is undertaken in accordance with the existing trade waste agreement.

#### **Environmental Performance**

Discharges from the bioretention basin during the reporting period were not monitored. This is a nonconformance with the site's OEMP (SLR 2018a) and SMOP (SLR 2018b) because of an administrative oversight in subcontractor engagement. As the monitoring action relates to a management plan requirement, and other actions within the OEMP (SLR 2018a) and SMOP (SLR 2018b) were adhered to the deviation does not constitute a non-compliance to a condition of the SSD or EPL. To prevent future reoccurrence, an external consultant is being engaged to ensure reporting of monitoring data in future Annual Reviews.

The LTP is managed by Cleanaway's landfill operations. This includes the leachate monitoring program. Subsequently, leachate monitoring results are not provided. They are reported to Sydney Water separately under the terms of the Trade Waste Agreement.

#### **Comparison against Predictions**

The Erskine Park WTS EIS (SLR, 2015a) predicts there will be no impacts on local water resources including the flow and quality of surface water. The factors which contributed this prediction included:

- Absence of floodable land shown on Broader Western Sydney Employment Area draft Structure Plan 2013;
- Water requirements of WTS will be serviced by existing infrastructure;
- Stormwater runoff will be captured by existing bioretention basin which overflows to the Council's stormwater system by an outlet structure;
- The absence of on-site waste disposal or long-term waste stockpiling; and
- No Acid sulphate soils with moderate salinity levels present on-site (SLR, 2015a).

There were no impacts to external surface water during the reporting period, with stormwater runoff captured by the bioretention basin, prior to release.

#### **Incidents and Improvements**

No incidents or complaints relating to surface water occurred during the reporting period.

Mitigation measures for stormwater and leachate will continue to be implemented, during the next reporting period. Stormwater and leachate monitoring will also be undertaken, during the upcoming year.

To improve surface water management at the site a stormwater valve will be installed, during the next reporting period, to act as an emergency stop. This improvement has been identified by Cleanaway and is not a requirement of DPIE or EPA.

## 7.2 Groundwater

#### **Environmental Management**

The Statement of Commitments in Appendix 3 of SSD 7075, as modified, requires a program of groundwater monitoring to be undertaken at the site, building on the ongoing groundwater monitoring program undertaken for the adjacent Erskine Park landfill.

Monitoring is undertaken at 13 groundwater bores surrounding the Erskine Park landfill in accordance with the site's EPL (EPL 4865). Two of the groundwater bores (BH17D and BH17E) are within the site. Quarterly groundwater monitoring at these bores was undertaken during the reporting period. Samples were analysed for the same parameters as those monitored for the landfill groundwater monitoring program. Groundwater monitoring bore BH5 was replaced during the reporting period.

Groundwater quality criteria/limits have not been set for the site. However, EPL 4865 sets a detection limit for ammonia (15 mg/L). In accordance with EPL 4865, if an ammonia level of 15 mg/L or more is detected,

confirmation sampling will occur, and Cleanaway will prepare a report that proposes actions that will be implemented to prevent the release of contaminated groundwater from the premises.

#### **Environmental Performance**

Groundwater monitoring results for the bores within the site are provided in **Table 17**. Other groundwater bores, as depicted on **Figure 4**, are monitored as part of the Erskine Park Landfill EPL 4865 requirements, therefore the results of these are not reported here.

	BH17D	BH17E	LOR
Total Dissolved Solids (TDS) (mg/L)	4510	1063.3	10
TOC (mg/L)	10	3.5	1
Ammonia (mg/L)	7.2	0.5	0.01
Calcium (mg/L)	158.7	84.3	1
Magnesium (mg/L)	97.3	108	1
Sodium (mg/L)	1553.3	190.3	1
Potassium (mg/L)	50	7.3	1
Chloride (mg/L)	2570	118	1
Sulphate (mg/L)	4.3	49.3	1
Alkalinity (mg/L)	907	898	1
Hydroxide (mg/L)	<1	<1	1
Carbonate (mg/L)	<1	<1	1
Bicarbonate (mg/L)	907	898	1

Table 17 – Average Quarterly Results for Groundwater Monitoring Bores

Note: Groundwater monitoring averages based on Quarter 1, 2 and 3 results. Quarter 4 results were not available at the time of preparation of this Annual Review.

The ammonia level for the groundwater monitoring bores was below the EPL 4865 detection limit. Baseline groundwater data for BH17D and BH17E is included in **Appendix A.** Groundwater quality levels for BH17D were generally higher than baseline levels, except for potassium and sulphate. For BH17E groundwater quality levels were higher than baseline levels for all parameters except for sodium and potassium.

Average groundwater depths for BH17D and BH17E during the reporting period were 17.3 m and 7.7 m, respectively<sup>1</sup>. These depths were approximately the same as those recorded during the last reporting period.

#### **Comparison against Predictions**

The Erskine Park EIS (SLR, 2015a) predicted that the local groundwater was unlikely to be impacted by the Development. The site performed in accordance with EIS predictions.

<sup>&</sup>lt;sup>1</sup> Groundwater depths based on Quarter 1, 2 and 3 results. Quarter 4 depths were not available at the time of preparation of this Annual Review.

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## LEGEND

#### **Incidents and Improvements**

No reportable incidents related to groundwater occurred during the reporting period, therefore no improvements are proposed by Cleanaway.

The groundwater monitoring program will continue to be undertaken during the next reporting period

# 8. Rehabilitation (Landscaping)

Landscaping (rehabilitation) was undertaken at the site in December 2018, after handover by the Construction Contractor to Cleanaway was completed. All landscaping was undertaken in accordance with the Landscape Plan (Jocelyn Ramsay & Associates 2018).

Since landscaping has been undertaken, these landscaped areas have been maintained.

Landscaping Plan will be updated during the next reporting period to include completion criteria.

# 9. Community

# 9.1 Community Sponsorship

Cleanaway provides support to several community organisations and groups.

# 9.2 Community Consultation and Information Strategy

In accordance with Condition C1 and C3 of SSD 7075, as modified, a Community Consultation and Information Strategy was prepared for the Site and is included in the OEMP (SLR 2018a). This Community Consultation and Information Strategy was implemented during the reporting period, with an email address, contact number and website maintained for the site.

## 9.3 **Project Websites**

In accordance with Condition C3 of SSD 7075, as modified, the community is kept informed of the operation and environmental performance of the Site, with all Annual Reviews posted on the Corporate website:

http://www.cleanaway.com.au/community/major-project/erskine-park-community-information-nsw/

In accordance with condition C13 SSD 7075, as modified, the website provides the following information:

- Staged Development application;
- EIS (SLR 2015a);
- RTS (SLR 2015b);
- Statutory approvals;
- Monitoring results;
- Management plans; and
- Complaints Register.

The website also includes Community Newsletters and updates on information discussed at community briefing sessions.

## 9.4 Complaints

During the reporting period no complaints were received by Cleanaway about the site. During the 2018-2019 and 2017-2018 reporting periods nine complaints and two complaints were received, respectively. **Table 18** summarises complaints over the last three reporting periods.

#### Table 18 – Complaints Received during the last three Reporting Periods

Compliant Type	2017-2018	2018-2019	2019-2020
Odour	0	9	0
Dust	1	0	0
Hazardous Materials	1	0	0
Total	2	9	0

# **10. Independent Audit**

In accordance with Condition C8 and C9 (Schedule C) of SSD 7075 (as modified) Cleanaway commissioned an IEA during the reporting period. This was within 1 year of the date of the commencement of operation of the Development.

A total of sixteen non-compliances were observed during the IEA. All non-compliances were in response to three conditions / commitments, concurrent or common to three environmental aspects. A summary of the non-compliances identified during the 2020 Audit is provided below:

- Consent Conditions:
  - 70 of the 80 consent conditions relating to the development were found to be compliant; and
  - The ten non-compliances related to general conditions that require the Development to be managed fully in accordance with consent conditions; to prevent and minimise dust and litter; fully implement the odour management plan; erosion and sediment control; and landscaping maintenance.
- Statement of Commitments:
  - 39 of the 41 Statement of Commitments were found to be compliant; and
  - The two non-compliances related to landscape maintenance and erosion control.
- EPA licence conditions:
  - 53 of the 57 conditions of EPA Licence 20986 were found to be compliant;
  - The four non-compliances (4) related to tracking of soil onto a public road, dust and clean-up of waste spills.

The non-compliances are described in further detail in the *Erskine Park Waste Transfer Station Independent Environmental Audit* Report (Jackson Environment and Planning, 2020). In response to these non-compliances, the Auditor(s) recommended improvements for Cleanaway to implement to ensure the operation of the facility continues in an environmentally sound manner in accordance with the conditions of consent and other approvals. The recommended actions are included in **Table 8 (Section 5)**, along with Cleanaway's responses and dates of completion of each action. To date, there are three outstanding actions that will be implemented during the next reporting period.

The next IEA is due to be commissioned on 17 December 2022.

In accordance with SSD 7075 condition B12 and EPL 20986 condition E3.1 Cleanaway are required to carry out an Odour Audit within six (6) months of commencement of operation of the WTS. Cleanaway are also required to submit a copy of the odour audit report to DPIE, EPA and Penrith City Council (Council) within two (2) months of commissioning the Odour Audit, in accordance with SSD 7075 condition B13 and EPL 20986 condition E3.2. The Odour Unit (TOU) was commissioned to undertake the audit in early March 2019. The site inspection component of the odour audit was undertaken on 9 April 2019. The Odour Audit Report was submitted to the EPA on 21 November 2019. The Audit Report was submitted to DPIE and Council with the 2018-2019 Annual Review.

# 11. Incidents and non-compliances during the reporting period

# **11.1** Non-compliances

One (1) non-compliance occurred during the reporting period. The non-compliance is associated with the late lodgement of the Odour Audit Report to EPA. EPL 20986 Condition E3.2 requires a copy of the audit report to be submitted to the EPA within two (2) months of commissioning the Odour Audit. The Odour Audit was commissioned in early March 2019 and the report was therefore required to be submitted by early May 2019, but it was not submitted within this timeframe. Instead, the Odour Audit Report was lodged to EPA on 21 November 2019. This non-compliance was reported in the Annual Return lodged to EPA in November 2020.

## **11.2** Incidents

No reportable incidents or exceedances occurred during the reporting period.

## **11.3** Other

Cleanaway did not receive any official cautions, warning letters, penalty notices or undertake prosecution proceedings for the site, during the reporting period.

# **12 Activities to be completed in the next reporting period**

The WTS will receive and process approximately 157,500 tonnes of waste during the next reporting period.

Activities to be completed during the next reporting period to improve the environmental or community performance of the operation include:

- Maintain landscaping at the site;
- Continue groundwater monitoring at the site;
- Conduct stormwater monitoring at the site, in accordance with the SMOP;
- Undertake quarterly odour monitoring at the site;
- Continue to operate the weather monitoring station at the site;
- Manage any complaints received at the site;
- Consult with DPIE regarding Stage 2 of the Development;
- Engage a monitoring consultant to investigate options for installing sampling equipment at the bioretention basin;
- Install a stormwater valve at the site, to be used as an emergency stop;
- Continue implementing the Action Plan from the IEA; and
- Submit the site's second Annual Return to the EPA.

# References

Cleanaway (2018) Operational Waste Management Plan - Erskine Park Waste Transfer Station – Stage 1.

DPIE (2015) Annual Review Guideline. Post-approval Requirements for State Significant Mining Developments.

EPA (2006) Assessing Vibration: A Technical Guideline.

Green Bean Design (2015) Erskine Park Waste Transfer Station. Visual Impact Assessment.

Jackson Environment and Planning (2020) Erskine Park Waste Transfer Station Independent Environmental Audit.

Jocelyn Ramsay & Associates (2018) Erskine Park WTS Landscape Site Plan.

SLR (2015a) Erskine Park Resource Management Facility. Staged SSD (SSD – 7075) Concept Plan and Stage 1 Waste Transfer Station. Environmental Impact Statement (EIS).

SLR (2015c) Erskine Park Resource Management Facility Staged SSD. Air Quality Impact Assessment (AQIA).

SLR (2018a) Operational Environmental Management Plan - Erskine Park Resource Management Facility Stage 1 Waste Transfer Station.

SLR (2018b) Stormwater Maintenance and Operations Plan. Erskine Park Transfer Station – Stage 1.

The Odour Unit (TOU) (2019) Erskine Park Resource Management Facility – Waste Transfer Station Odour Audit.

# Appendix A Baseline Groundwater Monitoring Data

## Table A1 – Baseline Groundwater Monitoring Data

Parameters	BH17D	BH17E	LOR (mg/L)
Total Dissolved Solids (TDS)	5.43	2.76	10
тос	21.54	5.03	1
Ammonia	6.81	1.16	0.01
Calcium	22.71	35.8	1
Magnesium	42.4	48.71	1
Sodium	971	289.69	1
Potassium	63.71	10.97	1
Chloride	1413.31	19.6	1
Sulphate	65.60	38.76	1
Alkalinity	690.8	875.34	1
Hydroxide	-	-	1
Carbonate	-	-	1
Bicarbonate	-	-	1