

A blue SMV forklift is lifting a large, weathered metal container. The container has a yellow and black striped top and various markings, including '42G1' and 'MAX.CW'. The forklift has 'SMV' and 'KONECRANES' written on its side. In the background, a large industrial building features a sign for 'VEOLIA ENVIRONMENTAL SERVICES TRANSFER TERMINAL'. The sky is blue with scattered white clouds.

Annual Environmental Management Report

Banksmeadow Transfer Terminal

June 2016

 **VEOLIA**
ENVIRONMENTAL SERVICES
TRANSFER TERMINAL

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Quality Information

Abbreviations/Definition

ACM	Asbestos Containing Material
AEMR	Annual Environmental Management Report
ANZECC 2000	Australia and New Zealand Guidelines for Fresh and Marine Water Quality
BTT	Banksmeadow Transfer Terminal
CAQGGMP	Construction Air Quality and Greenhouse Gas Management Plan
CEMP	Construction Environmental Management Plan
CSWLMP	Construction Soil, Water and Leachate Management Plan
DA	Development Application
DPE	Department of Planning and Environment
DLA	DLA Environmental Services
EC	Electrical Conductivity
EPA	Environment Protection Authority
EIS	Environmental Impact Statement
EP&A Reg	Environmental Planning and Assessment Regulation 2000
EPL	Environment Protection Licence
GIL	Groundwater Investigation Levels
NATA	National Association of Testing Authority
NEPM	National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No 1) (NEPM 2013)
NOW	NSW Office of Water
POEO	Protection of the Environment Operations Act 1997
RAP	Remedial Action Plan
SWA	Safe Work Australia
Site	Banksmeadow Transfer Terminal Construction Site
T	Tonnes
Veolia	Veolia Australia and New Zealand

Quality Information

Quality Information

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Date:

June 2016

Status:

Final

Revision History and Distribution List:

Rev No.	Copies	Details	Issued to	Date
0	1	First Draft	<ul style="list-style-type: none">• Veolia NSW Technical and Engineering Team• Veolia NSW SHEQ Team	May 2016
1	1	Final	<ul style="list-style-type: none">• NSW Department of Planning and Environment	June 2016

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Executive Summary

Executive Summary

The Annual Environmental Management Report (AEMR) 2015-2016 is the 1st report prepared to detail the environmental performance of the Banksmeadow Transfer Terminal (the Terminal) site during its construction phase. This report covers construction activities on site, which commenced in September 2015. This AEMR covers the period of September 2015 to 28 April 2016 (the reporting period).

During this reporting period, Lipman was the Principal Contractor on site for the delivery of the project and therefore responsible for developing and maintaining management systems for the construction activities on site. Lipman has an integrated management system to cover quality, safety, training and environmental requirements. A Project Plan was developed by Lipman in accordance with the requirements of recognised Quality (ISO 9001), Safety (AS/NZS 4801) and Environmental (ISO14001) management systems standards and individual project requirements as detailed in the Construction Environmental Management Plan (CEMP) for the Terminal, which was approved by the Department of Planning and Environment (DPE) on 25 August 2015.

In accordance with Condition 8 of Schedule 4 of the Conditions of Development Consent (SSD 5855) (the Consent Conditions), the AEMR includes a description of the development that was carried out in the previous year and the proposed development to be carried out over the current year, review of the monitoring results and complaint records in relation to the environmental performance of the Terminal against relevant standards, performance measures and statutory requirements. Any non-compliance identified during this reporting period and corrective actions are also discussed. Further any trends in the monitoring data and any discrepancies between the predicted and the actual impacts of the development are also covered in the AEMR. Measures that will be implemented over the current year to improve the environment performance are also discussed in this AEMR.

Introduction

1. Introduction

1.1 General

The Banksmeadow Transfer Terminal (the Terminal) was granted approval under the Section 89E of the *Environmental Planning and Assessment Act 1979* on 28 April 2015 as a State Significant Development (SSD 5855). The Development Consent (the Consent Conditions) is comprised of 4 schedules, which dictate the operational and environmental performance requirements of the Terminal.

In addition to the Consent Conditions, an Environment Protection Licence 20581 (EPL) issued by the NSW Environment Protection Authority (EPA), under the *Protection of the Environment Operations Act 1997* (POEO Act), also specifies regulatory requirements to be satisfied. The EPL has been in force since 2 July 2015.

In accordance with Conditions 8 of Schedule 4 of the Consent Conditions, Veolia has prepared and submits the Annual Environmental Management Report (AEMR) for the reporting period of 28 April 2015 to 28 April 2016 to the DPE. This reporting period covers construction activities related to the Terminal, which commenced in September 2015.

Environmental monitoring was undertaken at the Terminal in the 2015-2016 reporting period, to satisfy the Consent Conditions, and the results obtained are detailed in this AEMR. Any significant trends or noncompliance with the relevant Consent Conditions have been identified and the corrective actions, where applicable, throughout the reporting period, are discussed in the subsequent sections.

Introduction

1.2 Conditions of Development Consent

Condition 8 of Schedule 4 of the Consent Conditions, details the requirements for the AEMR and states:

8. *Within one (1) year of the date of this consent, and every year thereafter, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:*
- (a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;*
 - (b) include a comprehensive review of the monitoring results and complaint records of the development over the previous calendar year, which includes a comparison of these results against:*
 - the relevant statutory requirements limits or performance measures/criteria;*
 - the monitoring results of previous years; and*
 - the relevant predictions in the EIS*
 - (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 development;*
 - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies and*
 - (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.*

1.3 Responsibilities

During this reporting period, Veolia's Environmental Representative for the site was Ramona Bachu (NSW Environment Officer).

Environmental monitoring on site was undertaken and/or supervised by the Lipman, the Principal Contractor for the construction phase.

Analyses of all samples were performed by a NATA accredited laboratory.

Introduction

1.4 Draft Validation Report

As a part of the construction works at 34-36 McPherson Street Banksmeadow, activities were required to remediate the land to ensure suitability for use as a waste transfer terminal. These works were completed in accordance with the Remedial Action Plan (RAP) for the site, prepared by DLA Environmental Services (DLA).

DLA was also commissioned by Lipman to conduct a Validation Report for the site after the remediation works were completed. The Validation Report provides the information on the remediation works during this reporting period and has also been prepared utilising information obtained as a part of the remediation process from previous assessment reports and from experience, knowledge and current industry practice in the remediation of similar sites.

A draft Validation Report has been prepared and concludes that the remediation objectives of the Remedial Action Plan (RAP) have been achieved through the implementation of the selected remediation strategy. Based on these works, the site is expected to be considered suitable for an end use consistent with the commercial /Industrial in the National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No.1) ('NEPM', NEPC 2013). The final Validation Report will be released following completion of all remediation works on site.

Environmental Monitoring & Management

2. Environmental Monitoring & Management

Environmental monitoring at the Terminal during the 2015-2016 reporting period was conducted in accordance with the Monitoring Schedule in the Construction Environmental Management Plan (CEMP). This program incorporates all the monitoring requirements of the Consent Conditions and the EPL.

In accordance with Conditions 8 of schedule 4 of the Consent Conditions, the following sections report on the monitoring undertaken for each environmental aspect covered by the CEMP, and results are analysed against the relevant performance criteria and standards.

2.1 Air Quality Monitoring

Monitoring in accordance with the Consent Conditions were undertaken during this reporting period to determine if the Terminal's construction activities had any impacts on the ambient air quality. The following section provides further details regarding air quality monitoring and management practices.

2.1.1 Meteorology

During the reporting period (September 2015 to April 2016) meteorological conditions were measured using weather station to provide information on the potential for dust to become airborne and mobilise from onsite construction activities and any exposed areas. Daily weather conditions and forecasts were obtained from the Bureau of Meteorology website. In addition to this, an on-site weather station was used to record the speed of the wind, with the alert on when the wind speed greater than the 25m/hr.

A summary of the monthly rainfall and evaporation, minimum and maximum monthly temperatures recorded in this reporting period are presented in the graphs below.

Environmental Monitoring & Management

Figure 2-1: Monthly averages for rainfall and evaporation at the Terminal

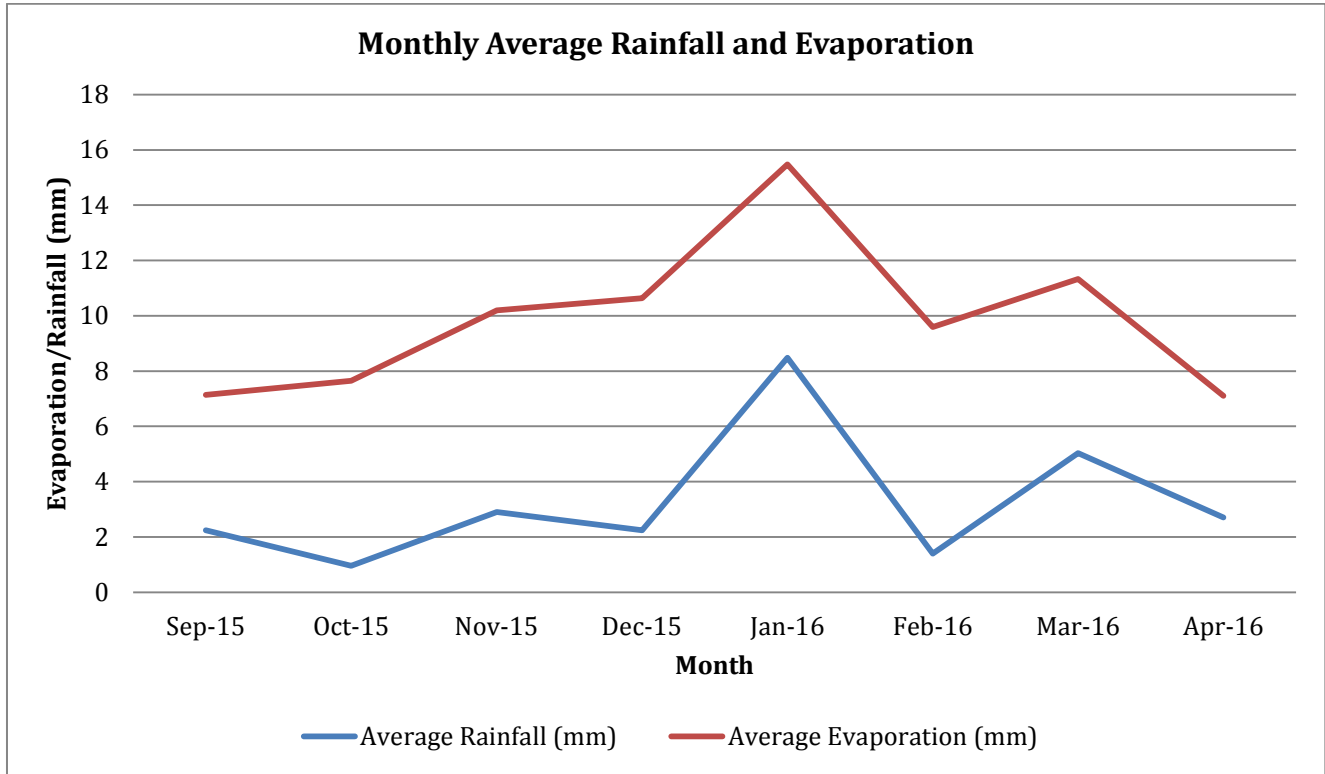
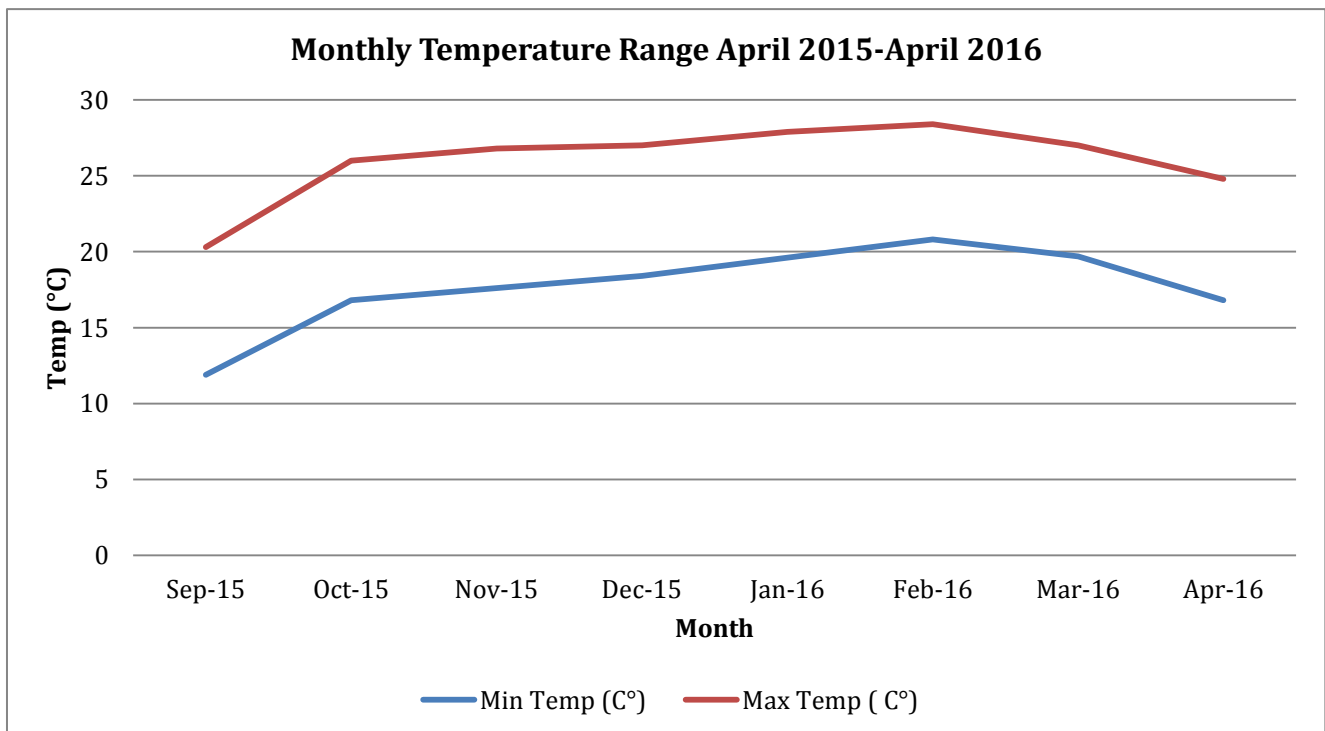


Figure 2-2: Monthly Temperature maximums and minimums at the Terminal



Environmental Monitoring & Management

2.1.2 Visual Dust Monitoring

Visual dust monitoring was conducted during the construction phase on site to ensure compliance with relevant conditions including the trigger for adverse weather conditions. Environmental Site Inspection Forms were used to record the monitoring results. The wind speed was managed as per the Wind Speed Management Plan prepared by Lipman. The relevant criteria and the response plan for any adverse conditions is outlined in Table 2.1 as per the Construction Air Quality and Greenhouse Gas Management Plan (CAQGGMP).

Table 2.1 Response plan for Wind Management

Criteria	Response
If the measured wind-speed is < 25km/h	Site Activities continued as planned with dust control measure maintained.
If the measured wind-speed is >25km/h	Site Assessments were carried out to make sure that the dust control measures are adequate, further dust creating activities investigated and existing control measures determined to be sufficient.

The Wind Speed Recording Log was maintained on site and available on request.

During the reporting period there was one dust complaint received from local Council officer because of the discharges of the dust crossed the site boundary towards the McPherson Street. The immediate action included increasing the frequency of the water truck. Actions that were taken to prevent reoccurrence included:

- The frequency of the water truck passes over the site was increased so that the area could remain damp.
- Sprinklers were installed near the Beauchamp Rd entry and the McPherson Street entry to assist the water truck during dry and windy periods.

There was a site visit from Council and DPE officers to assess construction activities and dust measures following this complaint and no follow up action was taken.

Environmental Monitoring & Management

2.1.3 Asbestos Monitoring

Monitoring of the airborne asbestos fibres was carried out by DLA Environmental Services during the asbestos removal works as per the Construction Asbestos Management Plan (CAMP). The air monitoring was carried out each day that the demolition, excavation was undertaken in areas identified in the RAP. All the monitoring of the airborne asbestos fibres was carried out in accordance with the requirements of Safe Work Australia (SWA), *How to Safely Remove Asbestos Code of Practice*, issued in December 2011. Analysis of the air monitoring filters was carried out by a NATA accredited laboratory.

Table 2.2 summarises the results of the airborne asbestos monitoring undertaken during this reporting period. The SWA recommended exposure level of airborne asbestos fibres, measured as a time weighted average over an 8 hour shift, is 0.1 fibres per millilitre of air (0.1 fibres/ml).

Table 2.2: Asbestos Monitoring Results

Date	Time On	Time Off	Airborne Fibre Concentration (fibres/ml)
11/09/2015	10:00am	2:30pm	<0.01
14/09/2015	10:00am	2:40pm	<0.01
15/09/2015	10:00am	2:40pm	<0.01
16/09/2015	9:15am	2:30pm	<0.01
17/09/2015	8:15am	2:00pm	<0.01
23/09/2015	9:15am	3:00pm	<0.01
25/09/2015	9:00am	3:00pm	<0.01
28/09/2015	8:00am	2:00pm	<0.01
29/09/2015	10:00am	2:30pm	<0.01
30/09/2015	9:00am	2:30pm	<0.01

Environmental Monitoring & Management

Date	Time On	Time Off	Airborne Fibre Concentration (fibres/ml)
1/10/2015	8:00am	2:30pm	<0.01
2/10/2015	8:00am	3:00pm	<0.01
7/10/2015	9:00am	3:00pm	<0.01
8/10/2015	9:00am	2:30pm	<0.01
9/10/2015	8:00am	2:30pm	<0.01
10/10/2015	8:30am	3:00pm	<0.01
12/10/2015	10:00am	3:00pm	<0.01
13/10/2015	8:30am	3:00pm	<0.01
14/10/2015	8:30am	2:30pm	<0.01
15/10/2015	8:30am	3:10pm	<0.01
16/10/2015	9:30am	3:00pm	<0.01
17/10/2015	8:00am	1:10pm	<0.01
19/10/2015	10:00am	2:30pm	<0.01
20/10/2015	10:30am	3:00pm	<0.01

All monitoring results were satisfactory and indicative of background concentrations, and no risk to human health or the environment can be inferred. All monitoring and analysis was conducted in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition* [NOHSC: 3003(2005)]

Environmental Monitoring & Management

2.2 Water Monitoring

2.2.1 Groundwater Monitoring

DLA was commissioned by the Lipman to prepare a Groundwater Dewatering Management Plan for use during the construction of the Terminal. The Groundwater Dewatering Management Plan forms part of the Construction Soil, Water and Leachate Management Plan (CSWLMP), which is appended to the CEMP. This plan includes trigger levels and management hierarchy, responsibilities and actions required in the event of groundwater quality exceedances following sampling events.

For the protection of groundwater and designated receiving waters, threshold concentrations based on the NEPM 2013 Groundwater Investigation Levels for Marine Waters has been used. When threshold for marine waters were not available, thresholds for freshwater were used. In order to ensure adequate response times in the event of detection of undesirable concentrations of contaminants, a trigger and action level for target contaminants has been formulated. The trigger level being 50% of the recommended threshold with the action level set at 75% of the relevant threshold. Table 2.3 summarises the water monitoring results.

Table 2.3 Water Monitoring Results

Parameter	Trigger	Action	9/10/2015	24/11/2015-D1	27/11/2015	15/12/2015	28/01/2016	2/02/2016	23/03/2016
pH		<6.5- >8.5	7.2	6.7	6.9	6.5	6.5	6.9	7.2
Suspended Solids (TSS)	Visually turbid	50mg/L	460	5	12	29	5	22	ND
EC	1000	1000g/L	1012.2	1400	1100	6100	3100	5600	1800
Hydrocarbons									
Benzene	475	712.5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	40	60	ND	ND	ND	ND	ND	ND	ND
Toluene	55	82.5	ND	ND	ND	ND	ND	ND	ND
p-Xylene	100	150	ND	ND	ND	ND	ND	ND	ND
o-Xylene	175	262.5	ND	ND	ND	ND	ND	ND	ND
TRH	300	450	875	10	ND	ND	45	33	13
Metals									
Arsenic	12	18	3	5	5	2	4	2	3
Cadmium	0.35	0.53	ND	ND	ND	ND	0.1	0.8	ND
Chromium(III)*	13.5	20.3	ND	1	2	ND	2	1	2
Copper	0.7	1.1	3	ND	1	ND	5	2	ND
Lead	2.2	3.3	ND	ND	ND	ND	2	ND	ND
Mercury	0.5	0.75	ND	0.27	0.62	0.22	1.5	0.13	0.18
Nickel	5.5	8.3	3	ND	ND	15	8	20	2
Zinc**	7.5	11.25	80	14	28	330	140	4900	20

Environmental Monitoring & Management

* GIL Marine waters has been utilized as no values is available for Fresh Waters

** Trigger and Action level to be taken into context with regional influences.

Laboratory analysis recorded concentrations of EC (Electrical Conductivity) and Zinc above the adopted discharge criteria. The results were reviewed by DLA and considered to be ubiquitous with the expected regional background concentrations associated with the Botany aquifer. DLA concluded that the elevated heavy metal and EC results were minor and were not expected to pose an unacceptable risk to health or the environment.

Additionally the recorded levels of Zinc are not uncommon in stormwater due to the effect of urban environment runoff and therefore considered acceptable. The ANZECC 2000 trigger values guidelines are a tier 1 screening risk assessment. The trigger values are a conservative in measure and generally do not take into account the effect of urban environment runoff.

It was also considered that the recorded EC concentrations did not prohibit groundwater discharge to stormwater as the receiving waters (Botany Bay) are a saline environment.

No other elevated levels were recorded for heavy metals and all other concentrations were less than the laboratory limit of reporting or did not exceed the adopted criteria. On the basis of this information, it is considered that dewatering practices have not impacted on site water quality and groundwater dewatering may continue in this manner or alternatively discharge to the reinjection area established on site.

2.2.2 Surface Water Monitoring

Visual monitoring and/or checking of silt fencing/sumps was done during events of the heavy rainfall to make sure that the storm water is not contaminated.

2.2.3 Leachate Monitoring

As the site is still under construction so there has been no leachate generated in the reporting period of this AEMR.

Environmental Monitoring & Management

2.3 Noise and Vibration

Noise monitoring was undertaken at the Terminal to ensure that all the construction phase related activities are undertaken in manner to minimize the impact of any noise emissions.

The monitoring program and the management measures were followed as outlined in the Construction Noise and Vibration Management Plan (CNVMP) that included regular site inspections by contractor. Ongoing spot checks of noise intensive plant and equipment were also undertaken throughout the reporting period. The construction activities were restricted to the construction hours specified below in Table 2.4.

Table 2.4: Construction Hours of Operation

Activity	Day	Hours
Construction	Monday- Friday	7:00am-6:00pm
	Saturday	8:00am-1:00pm
	Sunday & Public Holidays	Nil

The noise management and mitigation measures were in place during the reporting period as outlined in the Section 3 of the CNVMP.

There were no noise complaints received from either industrial or residential neighbours during the 2015-2016 reporting period.

2.3.1 Vibration

DLA was engaged by Lipman in November 2015 to undertake a vibration monitoring during the onsite works. Vibration trials were undertaken onsite to confirm that on-site activities can comply with the maximum level of 1.1mm/s at the adjacent sites of the Goodman Botany Bay Industrial Park and Bingo Recycling Centre as set out in the CNVMP. Monitoring was also undertaken to determine the potential vibrational impacts from works along the south-eastern boundary of the site and its potential impact on the Botany Bay Industrial Park located opposite and surrounding properties.

Vibrations measurements were recorded by a 'Profound Vibra' Vibration Data Logger supplied by Acoustic Research Laboratories (ARL) located in Thornleigh NSW. The logger was calibrated before and after monitoring by ARL in their NATA accredited laboratory.

Environmental Monitoring & Management

The results from the vibration monitoring, were undertaken at two locations during the monitoring period of Tuesday 3rd to Wednesday 4th November 2015 indicate that the site criteria of 1.1mm/sec was exceeded. A total of 347 exceedances were noted during the monitoring period for the vibration logger located on the McPherson Street site, a number of these exceedances were outside of working hours, showing that external influences impacted on these vibration levels. Vibration monitoring was also undertaken offsite within the Botany Bay Industrial Park across the road from the site. A total of 135 exceedances of the criteria of 1.1 mm/sec were noted. Vibration logger results from both the loggers indicate that on-site activities did not necessarily impact on vibration levels off-site.

During the reporting period one compliant was received from neighbours regarding vibration due to earthworks activities on sites. The follow up action included not using vibratory rollers on the site to make sure in the future that all the site activities comply with the maximum level of 1.1 mm/s.

2.4 Traffic

Traffic control strategies were employed during the reporting period including preventative and responsive measures as outlined in the Construction Traffic Management Plan (Appendix A1). These included the following measures being implemented by Lipman:

- Appropriate numbers of accredited traffic controllers wearing high visibility clothing and stop/slow signs are in operations as required.
- Site Vehicle Movement Plan (Appendix A2) to manage and control the safe movement of all powered mobile plant operating within the site boundaries.
- Site Induction for all the drivers accessing the site, including the details of the permitted access routes to and from the site, and vehicle management on the site.

The initial couple of months involved the site establishment and the demolition work so the traffic movement was minimal. After the completion of the worksite establishment activities, the following measure was implemented as part of the Traffic Monitoring Program:

- Fortnightly spot monitoring of vehicles movements was done to make sure that the local road network, other McPherson St, is not utilised by heavy vehicles. The monitoring data is outlined in the Table 2.5.

During the reporting period no breaches were identified through spot monitoring and no complaints were received related to transport routes.

Environmental Monitoring & Management

Table 2.5 Data for Traffic Monitoring

	Dates of Traffic Monitoring					
Date	12/11/2005	26/11/2015	10/12/2015	23/12/2015	13/01/2016	28/01/2016
Period of observation	7:30am-9:00am 2:00pm-3:30pm	8:00am-9:00am 1:00pm-3:30pm	8:30 am-9:00am 2:00pm-3:30pm	7:30am-9:00am 2:00pm-3:30pm	8:00am-9:30am 1:30pm-3:00pm	8:30am-10:00am 1:30pm-3:00pm
NON- CONFORMANCES						
Construction vehicles turning right from Beauchamp Road into site	0	0	0	0	0	0
Construction vehicles using Perry Street (entry or exit)	0	0	0	0	0	0
Construction vehicles not turning left onto Denison when leaving site travelling North Bound	0	0	0	0	0	0
Complaints received	0	0	0	0	0	0
Total	0	0	0	0	0	0
Notes:	General Site Deliveries	General Site Deliveries	Over 60 concrete trucks	Concrete delivery	General Site Deliveries	General Site Deliveries

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Environmental Monitoring & Management

	Dates of Traffic Monitoring					
Date	10/02/2016	24/02/2016	9/03/2016	23/03/2016	6/04/2016	20/04/2016
Period of observation	7:30am-9:00am 2:00pm-3:30pm	8:00am-9:30am 1:30pm-3:00pm	8:30 am-10:00am 1:30pm-3:00pm	7:30am-9:00am 2:00pm-3:30pm	8:00am-9:30am 1:30pm-3:00pm	8:30am-10:00am 1:30pm-3:00pm
<u>NON-CONFORMANCES</u>						
Construction vehicles turning right from Beauchamp Road into site	0	0	0	0	0	0
Construction vehicles using Perry Street (entry or exit)	0	0	0	0	0	0
Construction vehicles not turning left onto Denison when leaving site travelling North Bound	0	0	0	0	0	0
Complaints received	0	0	0	0	0	0
Total	0	0	0	0	0	0
Notes:	General Site Deliveries	General Site Deliveries	Over 60 concrete trucks	Concrete delivery	General Site Deliveries	General Site Deliveries

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Environmental Monitoring & Management

2.5 Waste

The Construction Waste Management Plan (CWMP) appended to the CEMP details the control strategies and mechanism for the effective management of solid and liquid waste, and detail management strategies for the re-use, recycling and lawful disposal of waste generated during the construction phase of the site.

2.5.1 Asbestos removal

Prior to remediation works and as part of the demolition program, all asbestos containing materials and structures from the buildings were removed by Ark Civil Pty Ltd an asbestos demolition contractor (licence removal number 211158). The asbestos removal works for the site consisted of a staged approach in the following sequence:

- Stage 1 - 34 McPherson Street asbestos removal;
- Stage 2 - 36 McPherson Street south section asbestos removal;
- Stage 3 - 36 McPherson Street north section asbestos removal; and
- Stage 4 - 36 McPherson Street centre section asbestos removal.

Upon completion of each stage, a visual clearance inspection was undertaken. Upon satisfactory results that all asbestos containing materials were successfully removed from the exterior of the structure and ground surface, an Asbestos Clearance Report was issued allowing for works to safely commence within the area.

In total, 140.16 tonnes of asbestos containing material (ACM) was disposed of offsite to a licensed disposal facility on 5th of September 2015, 8th, 9th, 14th and 20th October 2015. This material was disposed at the Horsley Park Waste Management Facility, 716-752 Wallgrove Road, Horsley Park NSW 2164 and Dial a Dump Industries P/L, Premier Recycling Facility, PO Box 1040, Mascot NSW 1460 and Suez Eastern Creek Resource Recovery Park, Wallgrove Road, Eastern Creek NSW 2766.

The following information was recorded for storage treatment and disposal of the waste in accordance with the EPA requirements:

- Amount and type of waste transported
- Name and licence plate number of the transporter
- Date of transportation
- Name and location of the receiving waste facility

Environmental Monitoring & Management

All waste generated during construction phase is managed as per the CWMP.

2.6 Pest and Vermin

As the site was under construction during the reporting period, no formal pest and vermin housekeeping was undertaken apart from regular visual inspections. For this AEMR period, no pest and vermin management issues were reported.

Non Conformance and Complaints Handling

3. Non Conformance and Complaints Handling

3.1 Non-Conformance

A review of the environmental performance of the Terminal determined that for the 2015-2016 reporting period there were no environmental non-conformances reported.

3.2 Complaints Register

Any complaint, queries and issues received regarding noise, dust or other general community disturbances were managed as per the Lipman's corrective and preventive action procedure and documented individually in their Incident Report Form (Appendix B).

Veolia has advised of all the complaints as per the Workplace Incident Notification Flowchart for the site (Appendix C).

All complaints were investigated and details were recorded and actioned through *RIVO*, which is part of Veolia's National Integrated Management System for logging incidents and managing governance. There were 2 complaints (Appendix D) received for construction activities during this reporting period, which are summarised below in the Table 3.1 with the corrective and preventive action taken.

Table 3.1- BTT complaints for the 2015-2016 Reporting Period

Date occurred	Description of the complaint	Action taken
9-Oct-15	Vibration complaint from neighbouring business	Vibration monitoring showed high background vibration levels during trial so vibratory roller removed from site
24-Nov-15	Dust complaint from Council officer	Additional dust control measures implemented on site

Appendices

4. Appendices

Appendices

Appendix A1 Construction Traffic Management Plan

Appendices

Appendix A2 Site Vehicle Movement Plan

Appendices

Appendix B Incident Report Form

Appendices

Appendix C Workplace Incident Notification flowchart Banksmeadow WTT

TRAFFIC PLAN FOR BEAUCHAMP ROAD-BANKSMEADOW

* Access to Site via Perry St is Strictly Prohibited.

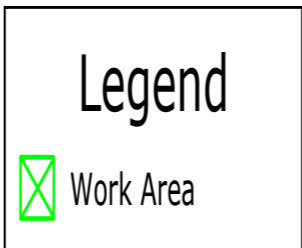
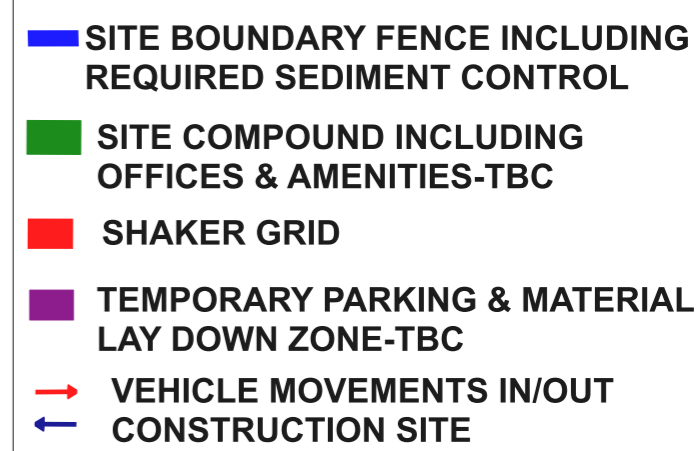
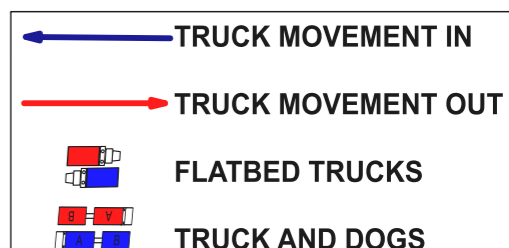
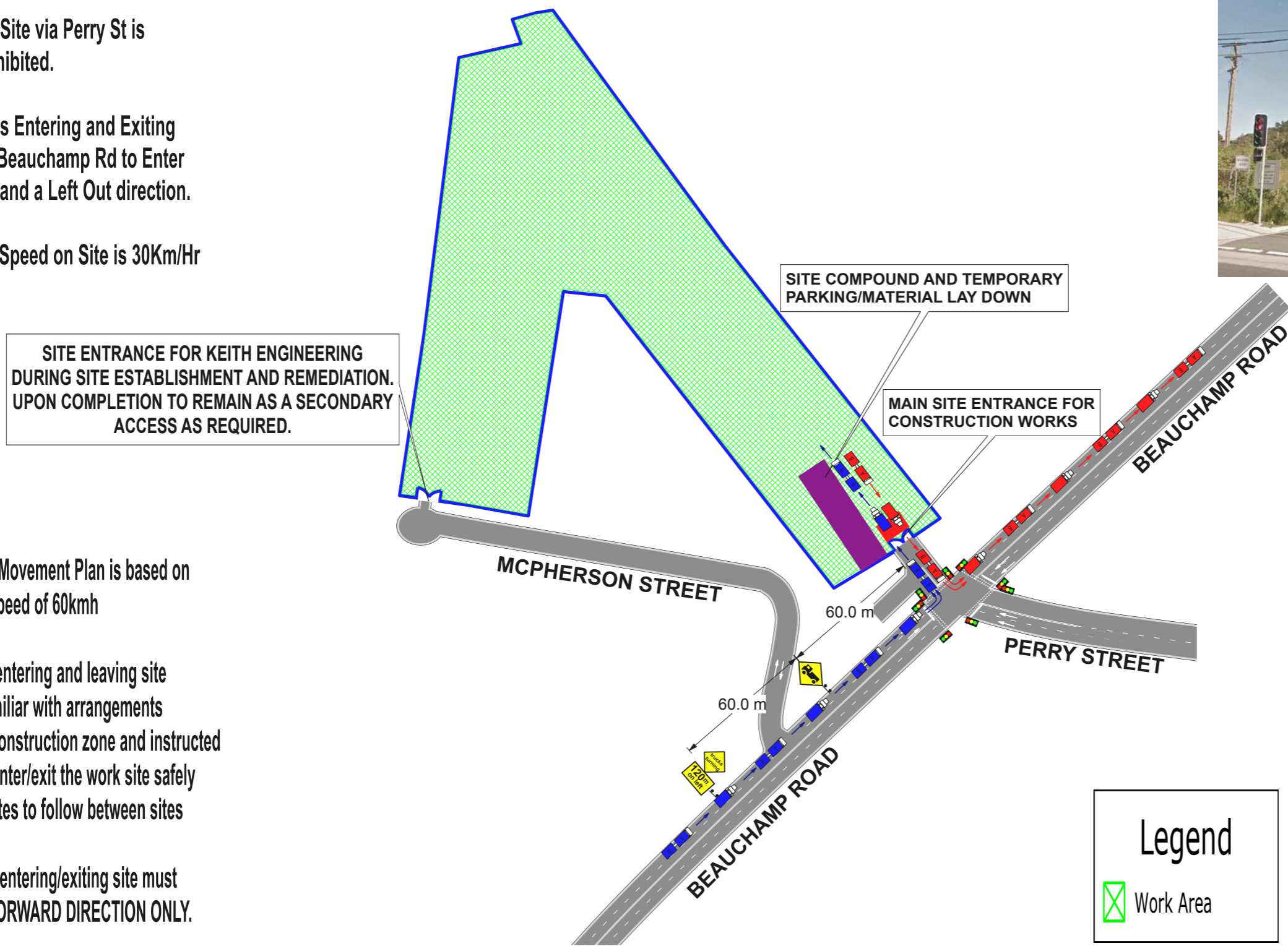
* All Vehicles Entering and Exiting the Site on Beauchamp Rd to Enter on a Left In and a Left Out direction.

* Maximum Speed on Site is 30Km/Hr

* This Traffic Movement Plan is based on approach speed of 60kmh

* All drivers entering and leaving site shall be familiar with arrangements for Leave Construction zone and instructed on how to enter/exit the work site safely and the routes to follow between sites

* All vehicles entering/exiting site must do so in a FORWARD DIRECTION ONLY.



Client: Lipman Constructions
Location: Beauchamp Rd- Banksmeadow
Date Drawn: 22/04/2015
Time of Works: M-F 0700-18.00-SAT 08.00-13.00

Traffic Logistics do not accept responsibility of this traffic control plan if it is not implemented by Traffic Logistics Pty Ltd

THIS PLAN IS NOT TO SCALE



TLTCP: 6417	Rev: C
Design & Inspect Traffic Control Plan Card No. 5293015901	NSW Transport Roads & Maritime Services
MASON BURGESS	
Expiry Date: 04/12/2016	

This site specific TCP is based on TCAWS Manual 2010 and is to be setup and packed up by qualified traffic controllers with current Introduction to Traffic Control at Roadworks (Yellow Card). Any modifications made to this site specific TCP should be made by qualified personnel with current Select and Modify (Red Card) or Design and Audit (Orange Card) and all modifications to be signed off on this TCP along with certification number

LEGEND

-  SITE BOUNDARY FENCE
-  MCPHERSON STREET SITE VEHICLE MOVEMENT PATHS
-  BEAUCHAMP ROAD SITE VEHICLE MOVEMENT PATHS
-  HV EXCLUSION ZONE - NO VEHICLES OR PLANT TO PASS OVER. AREA FENCED OFF TO PREVENT UNAUTHORISED ACCESS
-  MATERIAL LANDING/ DELIVERY ZONE
-  CONSTRUCTION SITE PARKING

CRANES, EXCAVATORS, TRUCK & DOGS, GRADERS AND COMPACTOR CAN BE EXPECTED TO UNDERTAKE WORK ON ALL AREAS OF BOTH SITES. ALL MACHINES ARE FITTED WITH REVERSE BEEPERS AND FLASHING LIGHTS. WITH ALL WORKS WEARING HIGH VISIBILITY CLOTHING.

IN THE EARTHWORKS/ INFRASTRUCTURE WORKS STAGE OF THE PROJECT, PLANT & EQUIPMENT IS EXPECTED TO MOVE ACROSS THE WHOLE SITE.

SPEED LIMITS RESTRICTED TO WALKING PACE ON SITE.

ENTER/ EXIT IN FORWARD DIRECTION.

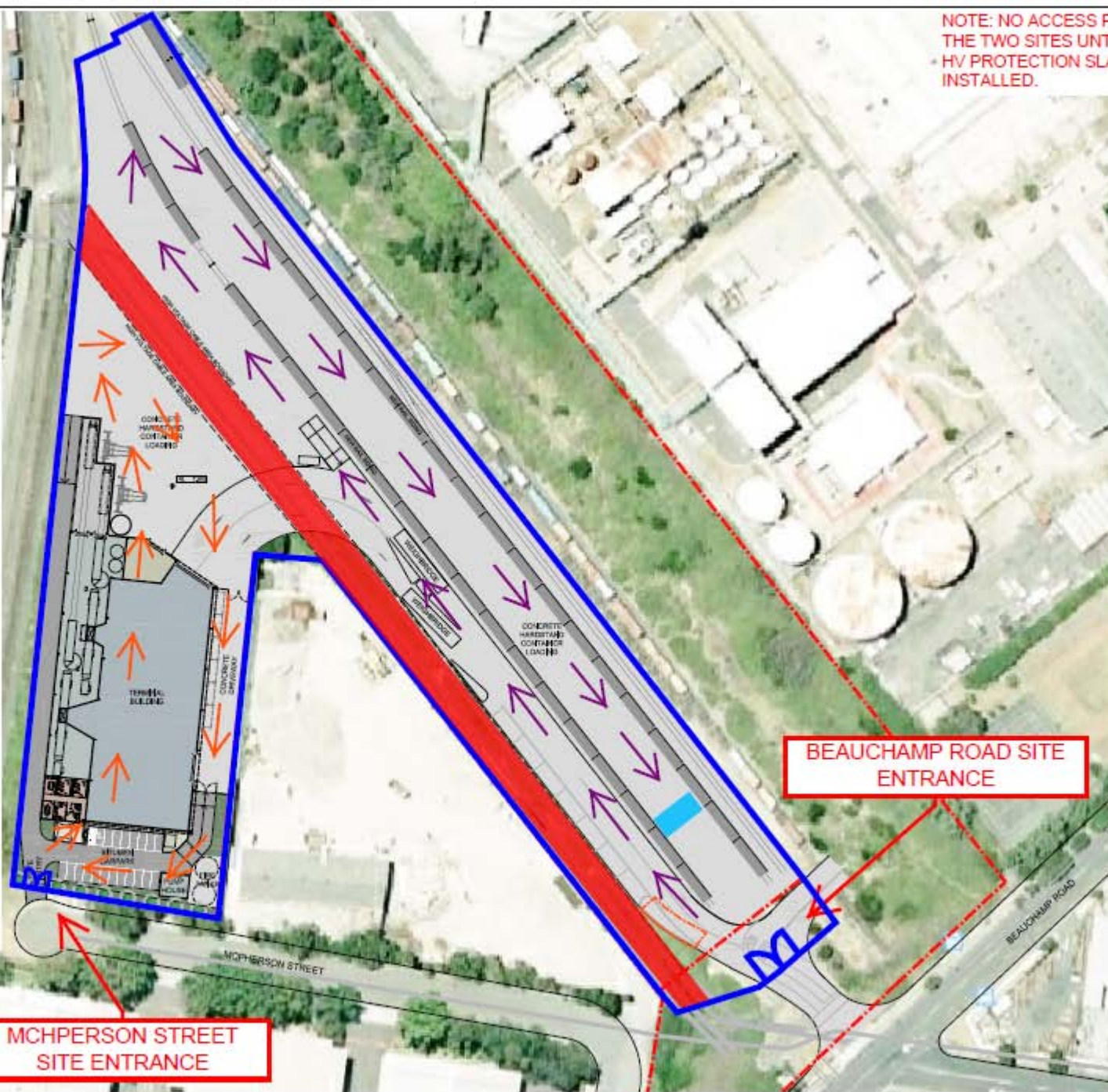
GATES LOCKED AFTER HOURS.

PLANT/ VEHICLES HAVE RIGHT OF WAY, WORKERS TO VISUALLY CONTACT OPERATORS WHEN PASSING AT A SAFE DISTANCE.

WORKERS TO KEEP TO THEIR DESIGNATED DAILY WORK AREA.

PEDESTRIANS MUST FOLLOW ALL DIRECTIONAL SIGNAGE ON SITE

NOTE: NO ACCESS PERMITTED BETWEEN THE TWO SITES UNTIL EARTHWORKS AND HV PROTECTION SLABS HAVE BEEN INSTALLED.



MCHPERSON STREET SITE ENTRANCE

BEAUCHAMP ROAD SITE ENTRANCE

- **SERIOUS INCIDENTS** (which are reportable to authorities)- Must Be Provided Within **24 Hours**
- **MEDICAL TREATMENT** injury/illness (excluding Serious Injuries) - Must Be Provided Within **3 Days**

1. DETAILS:

a) Incident Type:	<input type="checkbox"/> Environment	<input type="checkbox"/> Other: _____		
	<input type="checkbox"/> Fatality	<input type="checkbox"/> Injury/Illness	<input type="checkbox"/> Near Hit	
b) Project Name:	Date: / /		Time: : am/pm	
	Date of incident		Time of incident	
c) Location of Incident on Project:	_____			
	e.g. building level, address			
d) Worker Injured?:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	circle	Name	Occupation	Employer
e) Member of Public Injured?:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	circle	Name	Address	Telephone
f) Emergency Services Notified:	<input type="checkbox"/> None		<input type="checkbox"/> Ambulance	<input type="checkbox"/> Fire Brigade
			<input type="checkbox"/> Police	
g) Who accompanied the injured person to the doctor/hospital?	_____		_____	
	Name		Company	
h) Other Authorities or parties notified (Workcover, OFSC, EPA, Council or Client):				<input type="checkbox"/> Yes
If yes provide details below.				<input type="checkbox"/> Not required
Details:	_____			

i) Damage to plant/property:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	circle	Location	Description	Owner of plant/property

2. DESCRIPTION:

Describe what was happening before incident occurred: _____

Describe the incident and how it happened (Who, What and How): _____

3. INCIDENT INVESTIGATION: Tick box if items below are part of the cause and provide details (Attach details if needed).

<input type="checkbox"/> Plant (incorrect type or failure of plant, equipment, tools, etc):	_____
<input type="checkbox"/> Procedure (incorrect or inadequate systems/procedural failure related to Instructions, SWMS, Specifications, etc):	_____
<input type="checkbox"/> Protection (Failure of PPE, physical barriers & safeguards, etc):	_____
<input type="checkbox"/> People (human factor, competency, supervision, etc):	_____

Place (work place environment, substances, external factors, etc):

4. CORRECTIVE ACTIONS:

Immediate Actions Taken (isolations etc):

Actions taken to Prevent Re-Occurrence? (Address issues identified in Section 3)

Action to be Completed By:

Name	Position	Target Date

5. ATTACHMENTS:

Attach and reference all relevant information prior to and after the incident as identified below.

	Yes	No	Ref.		Yes	No	Ref.
Site Induction form (with a copy of the "White card")	□	□	□	Safe Work Method Statement (Attach extract pertaining to task)	□	□	□
First Aid Register (Form 17.1)	□	□	□	SWMS training/sign off sheet	□	□	□
Witness Statement 1 (Form 18.1)	□	□	□	Prestart Plant checklist (Form 25.2) & Plant service records	□	□	□
Witness Statement 2 (Form 18.1)	□	□	□	Other: _____	□	□	□
Photographs	□	□	□	Other: _____	□	□	□
Toolbox Talks/Meeting Minutes	□	□	□	Other: _____	□	□	□

Prepared By:

Position	Name	Signature	Date

6. CLOSE OUT:

Actions are to be verified as complete and report closed out as follows:

By Construction Director, Systems Manager or Safety Manager - **Serious Incidents.**

By Project Manager or Site Manager – **Medical Treatment Injuries** (excluding Serious Injuries).

Closed Out By:

Position	Name	Signature	Date

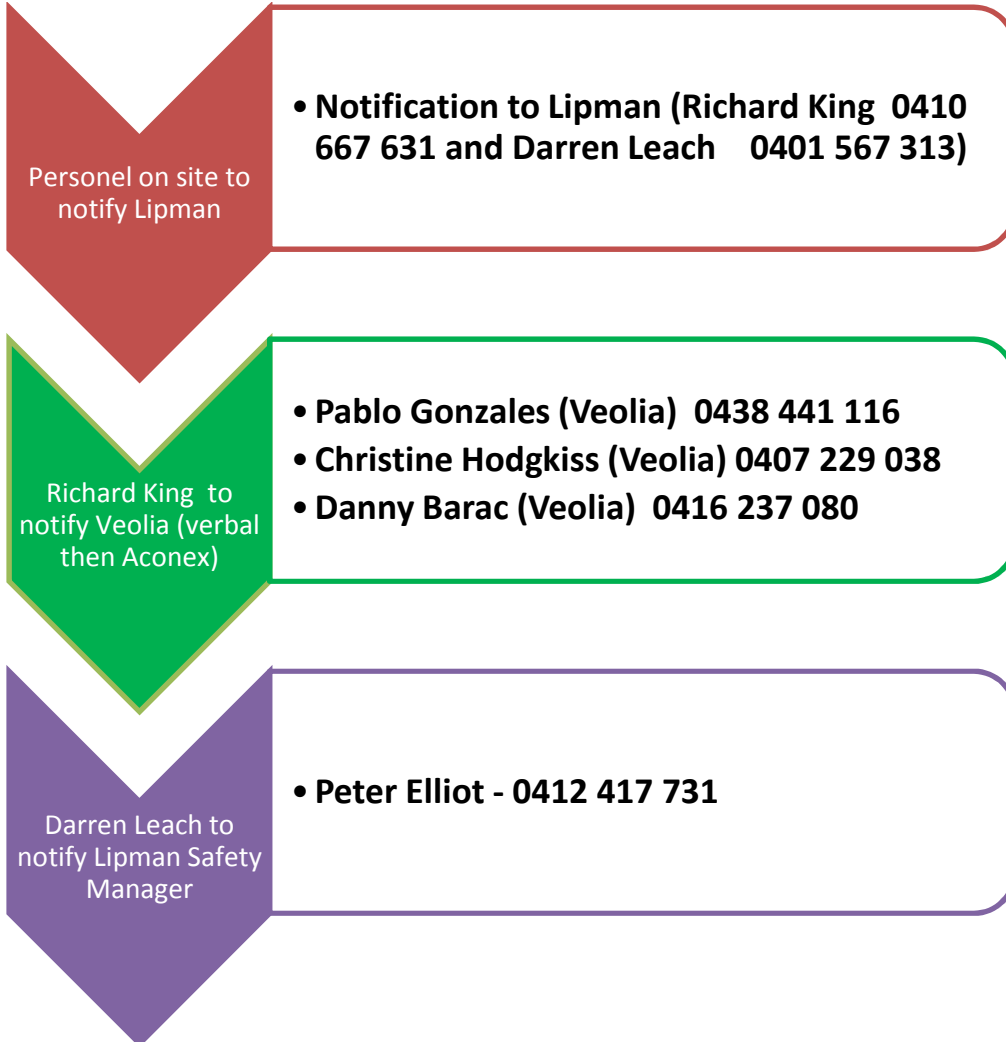
USER GUIDE

1. **COLLECT THE EVIDENCE (Section 1, 2 and 5)**
 - What really happened?.
 - Obtain all relevant information.
 - Get the facts.
2. **CONSIDER THE EVIDENCE (Section 3)**
 - What are the reasons?
 - Why did it actually happen?
3. **RECOMMEND ACTIONS (Section 4)**
 - What action will be taken to prevent the problem from occurring again.
4. **IMPLEMENT THE FINDINGS**
 - Take action.
 - Monitor and check suitability.
5. **Verify actions as complete and effective (Section 6)**
 - prior to closing out

WORKPLACE INCIDENT NOTIFICATION

FLOW CHART

Banksmeadow WTT



Immediatley	24hr	Monthly
<ul style="list-style-type: none">• LTI• Serious Harm• Serious Near Miss• Workplace Incident	<ul style="list-style-type: none">• MTI	<ul style="list-style-type: none">• First Aid• Environmental