



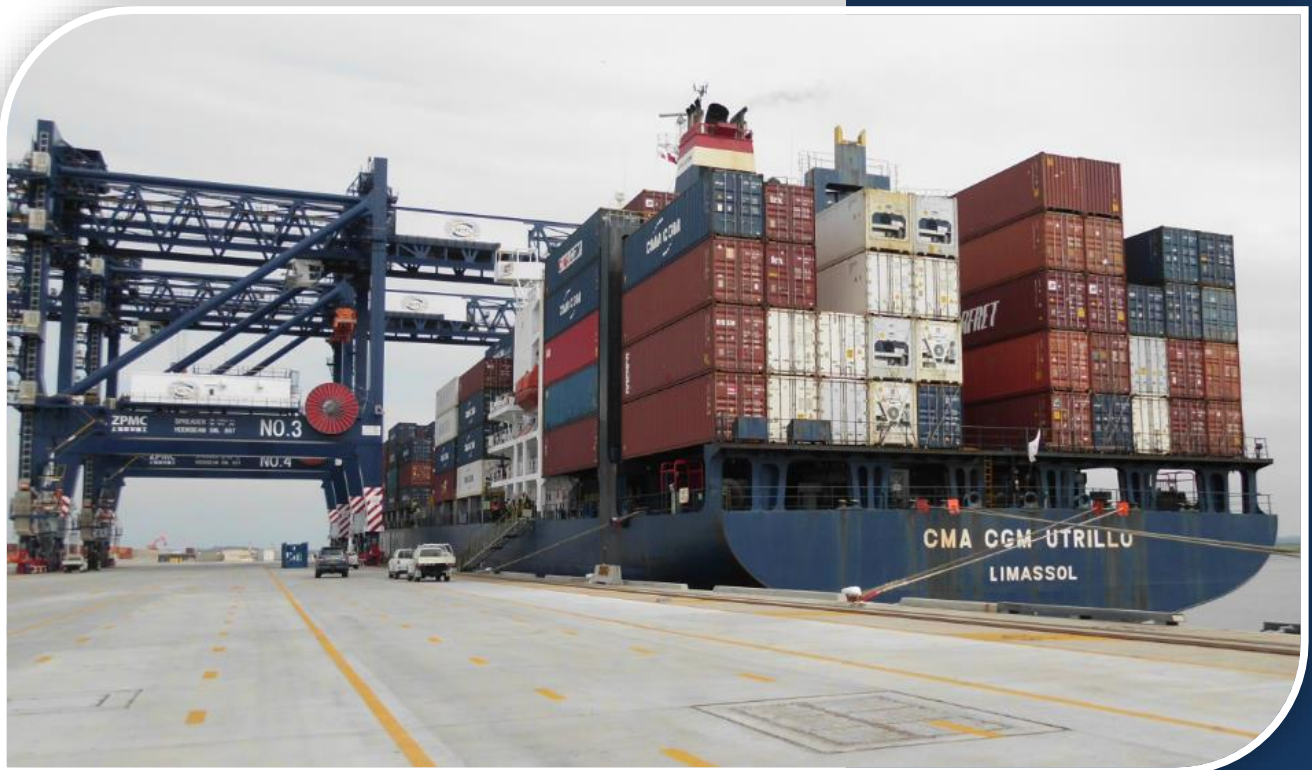
Hutchison Ports Australia

2015

HSEQ Management System

Annual Environmental Management Report - SICTL

Version 1



Telephone 02 9578 8500





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• Register of Amendments					
Ver No	Page no	Date	Description of amendments	Prepared by	Approved by
DRAFT 0	All	26-05-2016	Initial Draft	Jennifer Stevenson	Blair Moses
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Annual Environmental Management Report

1 Executive Summary

The purpose of the Annual Environmental Management Report (AEMR) is undertake the necessary assessment and review of compliance, EIS predictions and the effectiveness of environmental management and mitigation works required under the Development Consent C4.2 of the Project Approval (File No. S01/02520 DA-494-11-2003-I MOD 15 approved 8 July 2013) for Sydney International Container Terminals Pty Ltd (SICTL) Terminal 3 area at the Port Botany Expansion (PBE) Project.

The scope of this AEMR is the development and activities associated with the operation of the container terminal and associated infrastructure in the period of 1 September 2014 to 30 August 2015.

- There was one non-compliance and one observation made against the Development Consent or other requirements of the Project Approval related to SICTL's activities.
- There were two areas where the performance to the Environmental Impact Statement (EIS) was not as predicted.
- There were three non-compliances with the conditions of SICTL's EPA licence for the operation of the Terminal 3 Area.
- There were two areas where SICTL's performance against Key Performance Areas did not meet the targets established.

(see section 4 for more details on Performance Deficiencies and Areas for Improvement)

1.1 Consent Condition C4.2

The Applicant must prepare an Annual Environmental Management Report for the development. The Annual Environmental Management Report must:

- detail compliance with the conditions of this consent;
- contain a copy of the Complaints Register (for the preceding twelve-month period, exclusive of personal details) and details of how these complaints were addressed and resolved;
- include a comparison of the environmental impacts and performance predicted in the EIS and additional information documents provided to the Department and Commission of Inquiry;
- detail results of all environmental monitoring required under the development consent and other approvals, including interpretations and discussion by a suitably qualified person;
- contain a list of all occasions in the preceding twelve-month period when environmental performance goals have not been achieved, indicating the reason for failure to meet the goals and the action taken to prevent recurrence of that type of incident;
- be prepared within twelve months of the commencement of operation, and every twelve months thereafter;
- be approved by the Director-General each year; and
- be made available for public inspection.



1.2 AEMR Assessment Methodology

The effectiveness of environmental management was assessed through the information collected by the terminal staff and systems for inclusion into the AEMR, including:

- a general overview of Terminal operations;
- recorded TEU throughput;
- the different classes of DG cargo handled by SICTL and the breakdown in tonnages and TEU;
- the status and numbers of operational plant in service;
- results of any air monitoring;
- reports and results from any noise monitoring;
- reports and results from any water monitoring;
- any general enquiries/ complaints/ comments received from the public, regulatory bodies or other organisations;
- the amount of solid waste generated and the amount of this waste recycled;
- the amount of liquid waste generated and the amount of this waste recycled;
- the amount of potable water used;
- total fuel consumption;
- total carbon emissions;
- total electricity consumption;

The collected information will be analysed so that trends and proportions can be identified and understood in the appropriate context. Most of the above information can be collected from the Network Control System for the terminal infrastructure and the 'nGen' Terminal Operating System for all freight. These two sources of information will be supplemented by other sources including utility bills, meter readings, invoices and register entries.



2 Overview of Terminal Operations

The SICTL terminal will become progressively operational over a number of phases outlined below. The commencement process is volume-driven and will be adjusted to meet operational demands.

Phase 1:

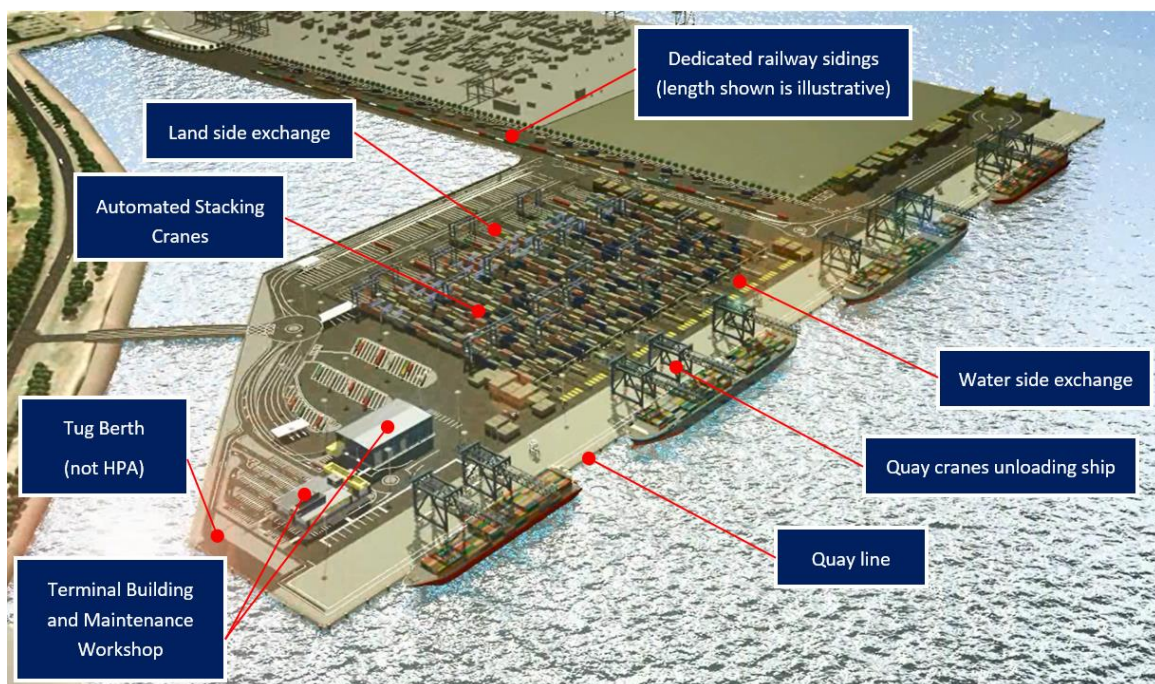
- temporary office sheds established on the North end of the quay until the terminal office building was completed;
- containers stacked on the quay until the Automated Stacking Crane (ASC) stacks were commissioned;
- the maintenance building and terminal office building completed;
- vessel berths 1 and 2 commissioned and operational;
- Quay Cranes (QCs) 1 - 4 installed and commissioned;
- ASC stacks 1 – 3 commissioned and operational;
- the first shuttle carriers, reachstackers and small plant delivered;
- the new railway sidings constructed and commissioned;
- freight trains begin service to the SICTL terminal.

Phase 2:

- ASC stacks 4 – 6 constructed and operational;

Phase 1 and 2 of construction works have been completed prior to this AEMR. Phase 3 (encompassing further ASC stacks and other container handling equipment) has not yet been commenced.

Automated stacking cranes have been introduced into the port for the first time and will be a prominent feature of the new terminal at SICTL. Use of the cranes provides greater on-site container capacity to manage peak demands, improved security and greater employee safety. The SICTL terminal will be connected by a rail freight service greatly reducing the reliance on road transport and helping to overcome road congestion issues near the port.



[Figure 1](#) Illustration of the SICTL terminal (at full construction level).



3 Acronyms and Glossary

Term	Description
AEMR	The Annual Environmental Management Report
Automated Stacking Cranes (ASC)	An automated crane used to stack containers received either from the landside or waterside exchange areas into rows, lines and blocks. Locations are allocated and controlled by the terminal operating system.
Development Consent	Instrument of Development Consent DA-494-11-2003-i.
DG	Dangerous Goods.
DP&I	The NSW Department of Planning and Infrastructure.
EIS	Environmental Impact Statement.
EMP	Environmental Management Plan
EPA	Environmental Protection Authority (NSW)
OEMP	Operational Environmental Management Plan. A Tier 3 document within the HSEQ Management System outlining the requirements, methods and goals of environmental management during the operation of the SICTL terminal.
PBECCC	Port Botany Expansion Community Consultative Committee
Quay crane (QC)	A crane purpose-built for the loading and unloading of cargo from ships which is mounted on rails on the wharf and can move along the wharf on these rails.
Reachstacker	An item of plant used to pick up and carry containers with its telescopic arm and spreader. Used to handle OOG cargo, rail cargo and any containers not travelling through the ASC area.
Shuttle carrier (SC)	An item of mobile plant used to transport containers from the quay cranes to the ASC stacks or to the exchange pads, capable of stacking containers two-high.
Spreader	A device used by quay cranes, shuttle carriers or reachstackers which enables these machines to lift and carry containers safely.
TEU	Twenty-foot Equivalent Unit, the accepted measure of container throughput and equal to one 20-foot (6.1m) long container. One 40-foot container is equals 2 TEU.



4 Performance Deficiencies and Areas for Improvement

The overall assessment of environmental performance for this reporting period demonstrated a high level of compliance with the relevant conditions, licence and KPA's at SICTL. The table below contains a list of all occasions in the reporting period when environmental performance goals have not been achieved, and indicates the reason for failure to meet the goals and the proposed action to be taken to prevent recurrence of that type of incident.

Ref No.	Assessment	Performance Deficiency / Area for Improvement	Reason	Proposed Action
Development Consent				
C2.13A	Observation	SICTL use Suez Recycling & Recovery Pty Ltd (SITA) to remove all waste materials – a contract is not in place at this time. SICTL have issued a purchase order to Suez Recycling & Recovery Pty Ltd, however a contract is a more formal document that incorporates KPI's and compliance requirements.	N/A	A tender for the Waste Management Services Agreement shall be organised by the Procurement Officer, to be finalised by end August 2016.
C2.17	Non-Compliant	SICTL is unable to fully comply with this condition. In relation to the reporting of dangerous goods by package size and quantities - this information is not supplied to SICTL; it is controlled by the DG regulator at the Port Authority. In order to report against the condition C2.17, the analysis of dangerous goods has been calculated on the nett tonnage of the container holding the dangerous goods. See section 11 of this report for the full detail. There were 3 exceedances of the limits under IMO Class 2.3, Ammonia (UN1005) and Methyl Bromide UN1062), where tonnage in excess of the limits were exported through SICTL terminal.	Clause 3.3 of Australian Standard 3846-2015 details that the number and type of packages are required to be recorded. This clause does not stipulate that the recording is to be done by the stevedoring company. In reference to the Dangerous Goods Policy from the NSW Port Authority, they are the authorised and responsible body for receiving and approving documentation in relation to dangerous goods in the Port Botany area. The Port Authority has informed SICTL that they will not issue this level of detail to the stevedoring companies in a report. The DG regulator is responsible for the acceptance and booking of all dangerous goods for the Port Botany terminals; SICTL has no authority to reject containers on the basis of exceeding the limits specified by the Development Consent.	SICTL has advised in a letter dated 2 May 2016 to NSW Ports that dangerous goods reports by class/number of TEU/total tonnage can be provided as required to DP&I by SICTL. SICTL shall discuss with the DG regulator to determine if the exceedances identified by SICTL are as a result of analysing the total tonnage of containers, and not the package size of the dangerous good cylinder or drum. It is possible that no exceedances were actually made by SICTL.



Ref No.	Assessment	Performance Deficiency / Area for Improvement	Reason	Proposed Action
Performance to EIS, Commission of Inquiry (COI) and S96 Application obligation				
21.10	☹	<p>It has been assumed that the volume moved by rail would be 30% of container throughput by 2006 and 40% by 2011.</p> <p>However the NSW Ports Five Year Port Development Plan (March 2014) states <i>"Over 278,000 TEUs were transported to and from Port Botany by rail in the 2012-13 financial year. This is a 14 per cent share of the Port Botany container trade."</i></p> <p>The figures reported in the BITRE Maritime Waterline 57 Statistical Report for TEU transported by rail through Port Botany in the Jan-June 2015 period is 19%.</p>	<p>The actual development timeframes of the Port Botany Expansion Project and the SICTL terminal is not in alignment with the expectations assumed at the time of the submission of the EIS.</p> <p>The completion of dredging and reclamation works by Baulderstone/Jan de Nul occurred on 17 June 2011, and the site was handed over to SICTL to commence construction on 1 August 2011.</p>	<p>SICTL commenced rail operations in 2014, however the rail usage is currently limited by the need for freight trains to travel on the shared passenger rail network (which gives priority to commuter trains) and operational inefficiencies and constraints at different stages of the rail journey.</p> <p>SICTL shall work closely with NSW Ports on any investigations into opportunities to make improvements in this area.</p>
26.5.6	☹	<p>Operation of the new terminal is expected to generate a substantial number of jobs, which is an important social benefit. The number of people employed directly in the operation of the new terminal has been estimated at more than 1,100 by 2010, increasing to more than 3,700 by 2025. This does not include any jobs created indirectly eg workers in the industries supplying materials to the port. The total number of jobs generated both directly and indirectly by the operations of the new terminal is estimated to be more than 2,800 by 2010 increasing to more than 9,100 by 2025</p>	<p>At 30-August-2015 SICTL employed 165 staff (118 Operations and Maintenance and 47 Management/Support Staff). These figures are significantly less than those predicted in the EIS.</p>	<p>The terminal is still incomplete and SICTL faces significant challenges to growing its shipping line portfolio and stevedoring business in the competitive market.</p>



Ref No.	Assessment	Performance Deficiency / Area for Improvement	Reason	Proposed Action
Environmental Protection Licence #20322				
E1.1	<p>Non-Compliant</p> <p>Action Closed within this period (4-Feb-15) Now considered compliant</p>	<p>The Licensee must undertake noise monitoring:</p> <p>(a) the noise monitoring must be undertaken within the first 6 months of commencement of operations;</p> <p>(b) the noise monitoring must verify the assumptions and noise limits as outlined in the Port Botany Container Terminal Expansion Noise Assessment (2003), part of the Environmental Impact Statement submitted to the Department of Planning and Infrastructure in accordance with the Environmental Planning and Assessment Act 1979 for the approved container terminal development, and Conditions L3.1 and L3.2 of this licence.</p>	<p>The first Noise Monitoring and Compliance Report was overdue by around 5 months. In an email dated 16 May 2014, SICTL requested a 4 week extension of time from the EPA to complete the report.</p> <p>Further delays occurred due to protracted consultation with the noise monitoring consultants and EPA on the merit of using noise modelling calculations alongside noise monitoring to produce better quality data, and the increase in Operations during this initial period.</p>	<p>Marshall Day Acoustics completed the Noise Monitoring in September and October 2014, and the report was finalised on 4 February 2015.</p> <p>SICTL has closed this action and is now compliant with the requirements of the Licence.</p>
E1.2	<p>Non-Compliant</p> <p>Action Closed (22-Feb-16) Now considered compliant</p>	<p>Every 6 months, the Licensee must undertake a periodic noise monitoring program consisting of attended and unattended monitoring and provide a report within one month after completion of monitoring to the EPA's Manager, Sydney Industry at PO Box 668 Parramatta NSW 2124 containing the following information:</p> <ul style="list-style-type: none"> a) unattended monitoring data for a continuous period of no less than 2 weeks; b) attended monitoring data during the period outlined in subsection (a); c) monitoring data from a minimum of 3 locations; d) an assessment of the noise levels against Condition L3 including a trend analysis; e) details of any feasible and reasonable noise mitigation measures that have been, or are proposed to be implemented to further reduce noise levels below the limits prescribed in this licence. 	<p>Following from the initial Operational Noise Monitoring and Compliance Report (19 October 2014), the next periodic noise monitoring assessment was due to be completed by 19 April 2015.</p> <p>Marshall Day Acoustics completed the Noise Monitoring on 2 August 2015, and the report was finalised on 23 October 2015.</p> <p>The date of the August 2015 monitoring reports is non-compliant to the requirement for periods of 6 months under the Licence conditions.</p>	<p>SICTL has subsequently met with the EPA on 1 December 2015 to discuss improvements in this area. The following Noise Monitoring and Compliance Reporting due in January 2016 was completed 30 January 2016 and finalised 22 February 2016.</p> <p>SICTL have obtained approval from the Unit Head – Sydney Industry – Environment Protection Authority – in a letter dated 11 July 2014 relating to proposed methodology for conducting noise measurements and modelling by SICTL.</p> <p>The Noise Monitoring reports have been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p> <p>SICTL has closed this action and is now compliant with the requirements of the Licence.</p>



Ref No.	Assessment	Performance Deficiency / Area for Improvement	Reason	Proposed Action
E2.1	Non-Compliant	<p>During the first 3 months of operations and every 6 months thereafter, the Licensee must undertake water quality monitoring during 3 separate rain events (where possible) and provide a report to the EPA's Manager, Sydney Industry at PO Box 668 Parramatta NSW 2124, within 1 month after the final monitoring event, containing the following information:</p> <ol style="list-style-type: none"> stormwater discharge locations sampled (at least 3) which must be representative of terminal discharges to surrounding waters; sampling and analysis at the inlet and outlet of the separator units of the following pollutants: oil and grease, pH, total suspended solids and heavy metals; and evaluate the efficiency of both the Stormceptor and Aquaceptor Units. 	<p>The initial Water Quality Monitoring Report contained sampling results from December 2013 and February 2014 over 3 separate rain events (Batch 1, 2 and 3). This report was published on 24 April 2014 and has been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p> <p>SICTL has not undertaken the 6 monthly water quality monitoring in compliance with the Licence conditions. The next water sampling was conducted on:</p> <ul style="list-style-type: none"> September 2014 (Batch 4) June 2015 (Batch 5) 	<p>SICTL has met with the EPA on 1 December 2015 to discuss improvements in this area.</p> <p>Subsequent correspondence between SICTL and EPA in May 2016 outline SICTL's plans to ensure commitment and compliance to this Licence condition.</p> <p>The Water Quality Monitoring Report is anticipated to be finalised in July 2016.</p>

Ref No.	Assessment	Performance Deficiency / Area for Improvement	Reason	Proposed Action
SICTL's performance against Key Performance Areas				
Noise and Complaints	Exceeding KPA	SICTL received 3 community complaints relating to noise during the reporting period (target is Zero).	It is not always possible to determine the source of noise/disturbance which is reported. With regard to the complaints received during this period, SICTL was not able to identify the source as relating to any operational activity.	SICTL investigates all complaints received by the community, and ensures that responses are sent back to the Initiator directly or to NSW Ports.
Hazardous Substances Cargo Movement	Exceeding KPA	<p>SICTL exceeded the Dangerous Goods throughput limits (as specified in condition C2.17) in three areas:</p> <ul style="list-style-type: none"> Ammonia (UN1005) NEQ 20T Methyl Bromide (UN1062) NEQ 0.5T Methyl Bromide (UN1062) NEQ 20T 	The DG regulator is responsible for the acceptance and booking of all dangerous goods for the Port Botany terminals; SICTL has no authority to reject containers on the basis of exceeding the limits specified by the Development Consent.	SICTL shall discuss with the DG regulator to determine if the exceedances identified by SICTL are as a result of analysing the total tonnage of containers, and not the package size of the dangerous good cylinder or drum. It is possible that no exceedances were actually made by SICTL.



5 Compliance to Development Consent – Schedule C Terminal Operations

Compliant: Complies with all requirements of the condition(s)

Observation: A situation observed during the audit that provides an opportunity for improvement or is not necessarily best practice or requires further consideration.

Non-Compliant: Does not fully comply with all requirements of the condition. These are categorised as minor or major, depending on the severity of the non-compliance.

Not Applicable: There were either no compliance issues related to the condition, is a future required action, was not applicable at the time of the audit or was not related to a SICTL responsibility.

No.	Details of Condition	Evidence	Assessment
C1	General Requirements		
C1.1	Application of Schedule The conditions in this Schedule of the consent relate to all the development and activities associated with the operation of the container terminal and associated infrastructure.	Noted	N/A
C1.2	The conditions in this sub-schedule of the consent must be complied with by the Applicant, or any party undertaking the activities and works referred to under condition C1.1, with the exception of the undertaking of Temporary Uses, which are subject to condition C1.2A. Should more than one terminal operator undertake operations within the terminal area, compliance with the conditions of this Schedule may be undertaken individually by operators, or collectively.	Noted	N/A
C1.2A	Temporary Uses The conditions in this sub-schedule of the consent must be complied with by the Applicant, or any party undertaking activities and works associated with Temporary Uses, except conditions C1.3, C1.4, C1.5, C2.5, C2.12, C2.16, C2.17, C2.18, C2.20, C2.25, C3.2, C3.3, C4.2, C4.3, C4.4 and C4.5.	Not Applicable	N/A
C1.2B	Temporary Uses shall be limited to a period of two (2) years, unless otherwise agreed by the Director-General. Any request to extend the period shall be supported by a Temporary Use Environmental Management Report detailing compliance with the conditions of consent, including environmental impacts and performance.	Not Applicable	N/A



No.	Details of Condition	Evidence	Assessment
C1.2C	<p>The Applicant shall prepare an Operation Environmental Management Plan – Temporary Uses prior to the commencement of temporary uses on the site. The Plan shall include details of how environmental performance would be managed and monitored to meet acceptable environmental outcomes, including what actions will be taken to address potential adverse environmental impacts. In particular, the following environmental issues shall be addressed in the Plan:</p> <ul style="list-style-type: none">• Odour and Air Quality;• Noise;• Waste Management;• Water and Wastewater Management;• Hazard Risk Management;• Amenity, including lighting; and• Incident Reporting. <p>The Plan shall also</p> <ul style="list-style-type: none">• identify all statutory obligations that the applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;• include a description of the roles and responsibilities for all key employees involved in the operation of the development; and• include overall environment policies and principles to be applied to the operation of the facility.	Not Applicable	N/A



No.	Details of Condition	Evidence	Assessment
C1.3	<p>The Applicant shall prepare an Operational Environmental Management Plan (OEMP) which must be approved by the Director-General prior to commencement of any operations at the terminal. The OEMP must:</p> <ul style="list-style-type: none">• identify all statutory obligations that the Applicant is required to fulfil in relation to operation of the development, including all consents, licences, approvals and consultations;• describe any relevant staging or phasing of the commencement of operations within the terminal envelope and any relevant timeframes;• clearly outline what aspects of environmental management, monitoring and reporting would be undertaken by the Applicant or jointly with other operators within the terminal area;• include a description of the roles and responsibilities for all key employees involved in the operation of the development;• include overall environment policies and principles to be applied to the operation of the facility;• include specific consideration of measures to address any requirements of DOP, DEC and the Council during operation;• detail standards and performance measures to be applied to the development, and a means by which environmental performance can be periodically reviewed and improved, where appropriate;• detail management policies to ensure that environmental performance goals are met and to comply with the conditions of this consent;• include the Management Plans relevant to operation, include the environmental monitoring requirements relevant to operation; and• be made available for public inspection after approval of the Director General.	<p>The approved OEMP is located on the SICTL website at the following location: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>The OEMP was approved by the Director-General on 16-09-2013 (see letter from NSW Department of Planning and Infrastructure Karen Jones to Lend Lease Paul Jerogin)</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C1.4	Prior to each of the events listed from a) to c) below, or within such period otherwise agreed by the Director-General, documentation certifying that all conditions of this consent applicable prior to that event have been complied with shall be submitted to the satisfaction of the Director-General. Where an event is to be undertaken in stages, submission of compliance certification may be staged consistent with the staging of activities relating to that event, subject to the prior agreement of the Director-General. a) commencement of any operations within the terminal area; and b) commencement of each stage or phase of operations.	The Development Consent Pre-Operational Compliance Report (v2 dated 03-09-2013) was approved by the Director-General on 16-09-2013 (see letter from NSW Department of Planning and Infrastructure Karen Jones to Lend Lease Paul Jerogin)	Compliant
C1.5	Notwithstanding condition C1.4 of this consent, the Director-General may require an update report on compliance with all, or any part, of the conditions of this consent. Any such update shall meet the requirements of the Director-General and be submitted within such period as the Director-General may agree.	Noted, no requests have been made.	Compliant
C2	Operational Environmental Performance		
C2.1	Air Quality Management – Odour The development shall be undertaken so as not to permit any offensive odour, as defined under section 129 of the <i>Protection of the Environment Operations Act 1997</i> , to be emitted beyond the boundary of the site.	Covered in the Air Quality Management Sub-Plan (v2 dated 30-08-2013.) No incidents of offensive odour have been reported.	Compliant
C2.2	Air Quality Management – Dust Emissions All activities shall be undertaken in a manner that minimises or prevents dust emissions from the site, including wind-blown and traffic-generated dust. All activities undertaken on the site shall be undertaken with the objective of preventing visible emissions of dust from the site. Should such visible dust emissions occur at any time, all practicable dust mitigation measures, including cessation of relevant works, as appropriate, shall be identified and implanted such that emissions of visible dust cease.	Covered in the Air Quality Management Sub-Plan (v2 dated 30-08-2013.) Dust mitigation activities such as water and polymer spraying of stockpiles and unsealed areas were undertaken by the construction contractors during 2014. Between 15 December 2014 and 2 May 2016 a Control (Red Imported Fire Ant) Order was in place at Port Botany, and prevented SICTL from further dust mitigation activities on site. No visible dust emissions were reported to SICTL during this period.	Compliant
C2.3	All trafficable and vehicle manoeuvring areas shall be maintained at all times in a condition that minimises the generation and emission of dust.	At SICTL the internal roads and truck marshalling areas are all sealed.	Compliant
C2.4	All vehicles entering or leaving the site carrying a load must be covered or otherwise enclosed at all times, except during loading and unloading, to minimise the generation and emission of dust.	Generally all vehicles on site are carrying shipping containers, tanks or tradesman equipment which are sealed. All trucks are visually inspected through CCTV by SICTL Security at the Exit Gate.	Compliant



No.	Details of Condition	Evidence	Assessment
C2.5	<p>Noise Management – Operation Noise Management Plan</p> <p>Prior to the commencement of operations, the Applicant must prepare an Operation Noise Management Plan in consultation with DEC, DOP, Botany and Randwick Councils. The Plan shall include noise management, mitigation monitoring and reporting to ensure that local acoustic amenity is not adversely impacted. In addition, the Operational Noise Management Plan must:</p> <ul style="list-style-type: none"> • identify general activities that will be carried out and associated noise sources; • assess operation noise impacts at the relevant receivers; • a primary objective of achieving the operational noise limits outlined in this consent; • provide details of overall management methods and procedures that will be implemented to control noise from the development; • include a pro-active and reactive strategy for dealing with complaints including achieving the operation noise limits , particularly with regard to verbal and written responses; • detail noise monitoring, reporting and response procedures consistent with the requirements of DEC; • provide for internal audits of compliance of all plant and equipment; • indicate site establishment timetabling to minimise noise impacts; • include procedures for notifying residents of operation activities likely to affect their noise amenity; • address the requirements of DEC; • a strategy to identify operational practices and noise controls that can minimise/or reduce noise levels from container impacts, audible alarms and other short duration high level noise events; • identify opportunities to reduce operational noise levels including, but not necessarily limited to, selection of equipment, engineering noise controls and shore based power; and, • be approved by the Director-General prior to the commencement of operation. 	<p>The Operational Noise Management Plan (v2 dated 30-08-2013) was approved by the Director-General on 16-09-2013 (see letter from NSW Department of Planning and Infrastructure Karen Jones to Lend Lease Paul Jerogin)</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C2.6	Noise Management – Noise Limits Noise from the premises must not exceed the sound pressure level (noise) limits presented in the Table [see table in the Development Consent]. Note the limits represent the sound pressure level (noise) contribution, at the nominated receiver locations in the table.	Noise Monitoring was carried out during September/October 2014 and July 2015. Noise Monitoring reports have been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting The calculated noise levels for the residential receivers comply with both EPL and Development Consent noise criteria.	Compliant
C2.7	Noise from the premises is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30 metres from the boundary, to determine compliance with the noise level limits in Condition C2.6 unless otherwise stated.	The locations for receivers were chosen to comply with the conditions of the EPL and Development Consent. All locations were at the most affected point within the residential boundaries.	Compliant
C2.8	Noise from the premises is to be measured at 1m from the dwelling façade to determine compliance with the LA1 (1 minute) noise level in Condition C2.6.	The LA1 noise levels were measured at the boundaries of the residences, not a 1m from the façade as it was not possible to access the façade of the resident dwellings at all times of day/night. At such large distances from the SICTL terminal the noise attenuation between the property boundary and a point 1m from the façade is negligible.	Compliant
C2.9	Where it can be demonstrated that direct measurement of noise from the premises is impractical, the DEC may accept alternative means of determining compliance. See Chapter 11 of the NSW Industrial Noise Policy.	See letter from the Unit Head – Sydney Industry – Environment Protection Authority dated 11 July 2014 relating to proposed methodology for conducting noise measurements and modelling by SICTL.	Compliant
C2.10	The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.	As C2.9 above, alternative methodology has been used to determine compliance.	Compliant
C2.11	The noise emission limits identified in Condition C2.6 apply under meteorological conditions of wind speed up to 3 metres per second at 10 metres above ground level, and temperature inversion conditions up to 1.50C/100m positive lapse rate.	The Noise Compliance Assessment reports for September/October 2014 and July 2015 confirm that the measurements taken were within the meteorological conditions of the Development Consent.	Compliant



No.	Details of Condition	Evidence	Assessment
C2.12	<p>Operational Traffic Management Plan</p> <p>Prior to the commencement of terminal operations, the applicant must prepare a Operational Traffic Management Plan in consultation with RTA, DOP, Botany and Randwick Councils and SSROC. The Applicant shall address the requirements of these organisations in the Plan. The Applicant shall also consult with the Community Consultative Committee in preparation of the Plan. The plan must include, but not be confined to, mitigation measures identified in EIS such as:</p> <ul style="list-style-type: none"> • identification of preferred routes to minimise noise impacts on the surrounding community; • physical and operational measures (including signage) to mitigate noise impacts from vehicles accessing and leaving the terminal; • measures to limit the impact of traffic noise on Foreshore Road and Botany Road; • driver education and information to promote driver habits to minimise noise; and • timetabling, scheduling and details of vehicle booking systems. <p>The plan must be submitted and approved by the Director-General prior to the commencement of operations.</p>	<p>The Operational Traffic Management Plan (v2 dated 30-08-2013) was approved by the Director-General on 30-08-2013 (see letter from NSW Department of Planning and Infrastructure Karen Jones to Lend Lease Paul Jerogin)</p>	Compliant
C2.13	<p>Waste Management On-Site</p> <p>Management of waste must be in accordance with the environment protection licence issued by EPA under the Protection of the Environment Operations Act 1997.</p>	<p>According to monthly waste summary reports provided by Suez Recycling & Recovery Pty Ltd to SICTL, the waste levels do not exceed those limits as listed in the Protection of the Environment Operations Act Schedule 1.</p> <p>The removal of waste tyres is covered under the contract with the Tyre Goods and Service provider (agreement reference HPA-CON-PB-0070 with Bridgestone Earthmover). Waste tyres will be removed from SICTL site as needed to ensure compliance.</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C2.13A	The management of waste for uses and activities not subject to an Environmental Protection licence, shall be managed and disposed of in accordance with the <i>Protection of the Environment Operation (Waste) Regulation 2005</i> and the <i>Waste Classification Guidelines</i> (DECCW 2009), or any future guideline that may supercede that document. All waste materials removed from the site shall only be directed to a waste management facility lawfully permitted to accept the materials.	SICTL use Suez Recycling & Recovery Pty Ltd (SITA) to remove all waste materials – a contract is not in place at this time. Suez Recycling & Recovery Pty Ltd are licenced under the EPA for Resource Recovery, Waste Processing (non-thermal treatment) and Waste Storage.	Observation
C2.14	Water and Wastewater Management Except as may be expressly permitted by a licence under the <i>Protection of the Environment Operations Act 1997</i> in relation to the development, section 120 of that Act (prohibition of the pollution of waters) shall be complied with in connection to the development.	SICTL have generally complied with the requirements under section 120 of the POEO, and there have been no incidents of uncontrolled spill or pollution of waters during this reporting period.	Compliant
C2.15	For each monitoring/discharge point or utilisation area, the concentration of any pollutant discharged at that point, or applied to that area, must not exceed concentration limits specified in the relevant environment protection licence.	SICTL's Environmental Protection Licence requires that water quality monitoring and reporting is undertaken in order to determine the effectiveness of the Stormceptor and Aquaceptor Units which SICTL employ for the treatment of stormwater on the premises. Water Quality Testing results have been undertaken in September 2014 and June 2015. The results have been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting Concentration limits are not specified in the EPL and analysis is not applicable.	Compliant
C2.15A	Temporary Uses shall not involve the loading, unloading and storage of dangerous goods.	No Temporary Uses at SICTL	N/A



No.	Details of Condition	Evidence	Assessment
C2.16	<p>Hazards and Risk Management</p> <p>Storage and Handling of Dangerous Goods</p> <p>Prior to the commencement of operation, the Applicant shall develop management measures in consultation with the Major Hazards Unit of DOP regarding the use of the new terminal for loading, unloading and storage of dangerous goods of Classes 2.3 and 6.</p>	<p>Handling of Dangerous Goods and Hazardous Substances Sub-Plan (v2 dated 09-09-2013) was reviewed by the NSW Department of Planning and Infrastructure. The letter dated 25-10-2013 notes that the Department is satisfied that the requirements of condition C2.16 has been adequately addressed by SICTL.</p> <p>The latest version of the Handling of Dangerous Goods and Hazardous Substances Sub-Plan (v3 dated 02-04-2015) has been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>Management measures for Dangerous Goods are also included in the HSEQ10.1.3 Emergency Response Plan (v3 dated 17-10-2013) was approved in a letter dated 4-11-13 by the NSW Department of Planning and Infrastructure. Email dated 29-10-13 from Lilia Donkova of MHU to Ingrid Ilias of DP&I noted that there are no outstanding issues with the plan and is therefore recommended for approval.</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C2.17	The Applicant shall ensure that the throughput of dangerous goods of each Class and the unit size shall not exceed those listed in table 6.8 of the Preliminary Hazard Analysis (Revision 7, June 2004) and is required to submit periodic reports to the Director-General detailing information on the actual tonnages, numbers of TEUs and package sizes for each class of dangerous goods handled in the previous five years for all port terminals.	<p>SICTL is unable to fully comply with this condition.</p> <p>In relation to the reporting of dangerous goods by package size and quantities - this information is not supplied to SICTL; it is controlled by the DG regulator at the Port Authority. Clause 3.3 of Australian Standard 3846-2015 details that the number and type of packages are required to be recorded. This clause does not stipulate that the recording is to be done by the stevedoring company. In reference to the Dangerous Goods Policy from the NSW Port Authority, they are the authorised and responsible body for receiving and approving documentation in relation to dangerous goods in the Port Botany area. The Port Authority has informed SICTL that they will not issue this level of detail to the stevedoring companies in a report.</p> <p>SICTL has advised in a letter dated 2 May 2016 to NSW Ports that dangerous goods reports by class/number of TEU/total tonnage can be provided as required to DP&I by SICTL.</p> <p>In order to report against the condition C2.17, the analysis of dangerous goods has been calculated on the nett tonnage of the container holding the dangerous goods. See section 11 of this report for the full detail.</p>	Non-Compliant
C2.18	The Applicant shall not store or handle or permit to be stored or handled, dangerous goods of Class 2.3, toxic compressed or liquefied gases above the quantities stored or handled in 1995/96 except in accordance with recommendations 1.1 and 1.2 in the Port Botany Land Use safety Study (1996).	<p>(as reference, during the 1995/1996 period 825 tonnes (average value) of class 2.3 Dangerous Goods were transited through Port Botany).</p> <p>For this reporting period, SICTL has transited 303 tonnes of class 2.3 Dangerous Goods.</p>	Compliant
C2.19	Condition Deleted from Development Consent	-	-



No.	Details of Condition	Evidence	Assessment
C2.20	Emergency Incident Management Emergency Response and Incident Management Plan The Applicant shall develop an Emergency Response and Incident Management Plan in consultation with DEC, DOP, Council and the Community Consultative Committee. The Plan must be approved by the Director-General prior to the commencement of operations and shall detail: <ul style="list-style-type: none"> terminal security and public safety issues; effective spill containment and management; effective fire fighting capabilities; effective response to emergencies and critical incidents; and a single set of emergency procedures, consistent with the existing Port Botany Emergency Plan, should be developed that be scaled as appropriate for any incident or emergency.	The Emergency Response Plan (v3 dated 17-10-2013) was approved in a letter dated 4-11-13 by the NSW Department of Planning and Infrastructure. The latest version of the Emergency Response Plan (v4 dated 12-05-2016) has been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Environmental	Compliant
C2.21	The Applicant shall ensure that the location of fixed terminal operating infrastructure adequately takes into account the required lateral separation distances to minimise the interference to Sydney Airport radar and navigational systems.	The Aviation Operational Impacts Sub-Plan (v2 dated 03-09-2013) address this requirement The Sub-Plan has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental An approval was granted by Aviation Environment, Aviation and Airports Division of the Department of Infrastructure and Transport on 04-09-2013.	Compliant
C2.22	Obstacle Limitation Surface The Applicant shall ensure that all operation equipment is below the obstacle limitation surface, unless otherwise permitted by an approval under the Airports Act 1999 and Airports (Protection of Airspace) Regulation 1966.	The Aviation Operational Impacts Sub-Plan (v2 dated 03-09-2013) address this requirement The Sub-Plan has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental An approval was granted by Aviation Environment, Aviation and Airports Division of the Department of Infrastructure and Transport on 04-09-2013.	Compliant
C2.23	Terminal Lighting The Applicant shall ensure design specifications of the terminal lighting conform to the requirements of Regulation 94 of the Civil Aviation regulations 1988.	The HSEQ5.1.7b Aviation Operational Impacts Sub-Plan (v2 dated 03-09-2013) address this requirement The Sub-Plan has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental An approval was granted by Aviation Environment, Aviation and Airports Division of the Department of Infrastructure and Transport on 04-09-2013.	Compliant



No.	Details of Condition	Evidence	Assessment
C2.24	<p>Light Spill</p> <p>The Applicant shall adopt measures to ensure that there is minimal light spill from ships which may cause distraction, confusion or glare to pilots. These may include:</p> <ul style="list-style-type: none"> • minimising ship board lighting while berthed; • orientating ships in a specific direction; and or • providing temporary shielding on the ship mounted floodlights while docked. 	<p>The HSEQ5.1.7b Aviation Operational Impacts Sub-Plan (v2 dated 03-09-2013) address this requirement The Sub-Plan has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>Maritime Order 32 Schedule 1 (2) lighting requires adequate lighting during loading or unloading activities. In some cases the ship will be loaded/unloaded at night and require sufficient lighting to undertake the operations. When vessels are not under stevedore operations, the Quay Crane lights (except the beacon lights) will be switched off in order to minimise the light glare or distraction to pilots.</p>	Compliant
C2.25	<p>Bird Hazard Management Plan</p> <p>Prior to operations, the Applicant shall develop a Bird Hazard Management Plan to minimise the attraction of bird species that pose a risk to aircraft movements. The Plan is to be prepared in consultation with the Department of Transport and Regional Services, Sydney Airport Corporation and Botany and Randwick Councils. The Plan must be approved by the Director-General prior to the commencement of operations.</p>	<p>The HSEQ5.1.7c Bird Hazard Management Plan (v2 dated 03-09-2013) was approved by the Director-General on 16-09-2013 (see letter from NSW Department of Planning and Infrastructure Karen Jones to Lend Lease Paul Jerogin)</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C3	Community information, involvement and consultation		
C3.1	<p>Community Information Complaints Handling</p> <p>The Applicant must meet the following requirements in relation to community consultation and complaints management:</p> <ul style="list-style-type: none"> • all monitoring, management and reporting documents required under the development consent shall be made publicly available; • provide means by which public comments, inquiries and complaints can be received, and ensure that those means are adequately publicised; and • includes details of a register to be kept of all comments, inquiries and complaints received by the above means, including the following register fields: <ul style="list-style-type: none"> • the date and time, where relevant, of the comment, inquiry or complaint; • the means by which the comment, inquiry or complaint was made (telephone, fax, mail, email or in person); • any personal details of the commenter, inquirer or complainant that were provided, or if no details were provided, a note to that effect; • the nature of the complaint; • any action(s) taken by the Applicant in relation to the comment, inquiry or complaint, including any follow-up contact with the commenter, inquirer or complainant; and • if no action was taken by the Applicant in relation to the comment, inquiry or complaint, the reason(s) why no action was taken. • Provide quarterly reports to the Department and DEC, where relevant, outlining details of complaints received. 	<p>The Quarterly Community Feedback Reports are prepared and uploaded each quarter to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p> <p>The required information relating to any and all complaints is contained within the report.</p> <p>Each quarter, a letter is sent to the Department with a copy of the quarterly report advising them of SICTL's compliance in this area.</p> <p>Water Quality Monitoring results and Noise Compliance Assessments are also uploaded to the SICTL website. NSW Ports and EPA are advised by email or phone of the latest report availability.</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C3.2	<p>Community Consultative Committee</p> <p>At least 6 months prior to commencement of operations, the Applicant shall establish a Community Consultative Committee to oversee the environmental performance of the development. This committee shall:</p> <ul style="list-style-type: none"> a) be comprised of: <ul style="list-style-type: none"> • 2 representatives from the Applicant, including the person responsible for environmental management; • 1 representative from Botany Bay City Council; and • at least 3 representatives from the local community, whose appointment has been approved by the Director-General in consultation with the Council; b) be chaired by an independent party approved by the Director-General; c) meet at least four times a year, or as otherwise agreed by the CCC; d) review and provide advice on the environmental performance of the development, including any construction or environmental management plans, monitoring results, audit reports, or complaints; and <p><i>Note: The Applicant may, with the approval of the Director-General, combine the function of this CCC with the function of other existing Community Consultative mechanisms the area, including the construction phase CCC (Condition B3.2) however, if it does this it must ensure that the above obligations are fully met in the combined process.</i></p>	<p>The PBE Community Consultative Committee has been combined into the Port Botany Neighbourhood Liaison Group, which was approved in a letter from the Director-General on 16-09-2013.</p> <p>The representative from SICTL has changed during this period, the following staff have attended the PBECCC meetings in this period:</p> <ul style="list-style-type: none"> • John Ieroklis • Jessykah Miles • Raymond Hohle • Shane Jones <p>The chairperson is Roberta Ryan.</p> <p>The meetings have been held on 25 November 2014, 3 March 2015, 26 May 2015, 18 August 2015</p> <p>As and when required/requested SICTL provides updates during the meeting.</p>	Compliant
C3.3	<p>The Applicant shall, at its own expense:</p> <ul style="list-style-type: none"> a) ensure that 2 of its representatives attend the Committee's meetings; b) provide the Committee with regular information on the environmental performance and management of the development; c) provide meeting facilities for the Committee; d) arrange site inspections for the Committee, if necessary; e) take minutes of the Committee's meetings; f) make these minutes available on the Applicant's website within 14 days of the Committee meeting, or as agreed to by the Committee; g) respond to any advice or recommendations the Committee may have in relation to the environmental management or performance of the development; and h) forward a copy of the minutes of each Committee meeting, and any responses to the Committee's recommendations to the Director-General within a month of the Committee meeting. 	<p>Representatives are from all of the operators in the PBE project covered by the Development Consent. SICTL generally sends one representative to each PBECCC meeting, during construction periods an additional Engineering representative may attend.</p> <p>SICTL provided the facilities for the meetings held on 3 March 2015 and 26 May 2015.</p> <p>Minutes are taken by Sandra Spate</p> <p>The meeting minutes are published on the NSW Ports website: http://www.nswportsbotany.com.au/community/port-botany-community-consultative-committee/</p>	Compliant



No.	Details of Condition	Evidence	Assessment
C4	Environmental Monitoring and Auditing		
C4.1	Incident Reporting The Director-General shall be notified of any incident with actual or potential significant off-site impacts on people or the biophysical environment within 12 hours of the Applicant, or other relevant party undertaking the development, becoming aware of the incident. Full written details of the incident shall be provided to the Director-General within seven days of the date on which the incident occurred. The Director-General may require additional measures to be implemented to address the cause or impact of any incident, as it relates to this consent, reported in accordance with this condition, within such period as the Director-General may require.	There have been no notifiable incidents during this reporting period. The HSEQ8.1.1 Incident Reporting Notification and Investigation Procedure outlines the requirement for notification of any environmental incident.	Compliant
C4.2	Annual Environmental Management Report (AEMR) The Applicant must prepare an Annual Environmental Management Report for the development. The Annual Environmental Management Report must: <ul style="list-style-type: none"> • detail compliance with the conditions of this consent; • contain a copy of the Complaints Register (for the preceding twelve-month period, exclusive of personal details) and details of how these complaints were addressed and resolved; • include a comparison of the environmental impacts and performance predicted in the EIS and additional information documents provided to the Department and Commission of Inquiry; • detail results of all environmental monitoring required under the development consent and other approvals, including interpretations and discussion by a suitably qualified person; • contain a list of all occasions in the preceding twelve-month period when environmental performance goals have not been achieved, indicating the reason for failure to meet the goals and the action taken to prevent recurrence of that type of incident; • be prepared within twelve months of the commencement of operation, and every twelve months thereafter; • be approved by the Director-General each year; and • be made available for public inspection. 	The AEMR for 2013 and 2014 has been created and uploaded to the SICTL website in the following location: http://www.hutchisonports.com.au/monitoring-and-reporting This document is the current AEMR for 2015.	Compliant



No.	Details of Condition	Evidence	Assessment
C4.3	<p>Environmental Representative</p> <p>Prior to the commencement of operations, a suitably qualified and experienced Environmental Representative(s) shall be nominated to and approved by the Director-General. The Environmental Representative(s) shall be employed for the duration of operations, or as otherwise agreed by the Director-General. The Environmental Representative shall be:</p> <ul style="list-style-type: none"> the primary contact point in relation to the environmental performance of the terminal operations; responsible for all Management Plans and Monitoring Programs required under this consent, in relation to the terminal operations; responsible for considering and advising on matters specified in the conditions of this consent, and all other licences and approvals relating to the environmental performance and impacts of the terminal operations; responsible for the management of procedures and practices for receiving and responding to complaints and inquiries in relation to the environmental performance of the terminal operations; required to facilitate an induction and training program for relevant persons involved with the terminal operations; and given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur. 	<p>The appointment of Trevor Ballantyne as the Environmental Representative was approved by the Director-General in a letter dated 31-07-2012 sent from Glenn Snow to Paul Jerogin of SPC.</p> <p>Trevor Ballantyne left SICTL in November 2014, and an application to nominate John Ieroklis as the replacement Environmental Representative for SICTL was made on 27 February 2015. Unfortunately before this application could be responded to; John Ieroklis also left the business.</p> <p>SICTL commenced recruitment proceedings; however the role of HSE Officer remained vacant until August 2015 when Shane Jones was appointed to that position.</p> <p>The appointment of Shane Jones as the Environmental Representative for SICTL was approved by the Director-General in a letter dated 27-11-2015 sent from Karen Jones to Trevor Brown of NSW Ports.</p>	Compliant
C4.4	<p>Environmental Training</p> <p>Prior to the commencement of operations an Environmental Training Program shall be developed and implemented to establish a framework in which relevant employees will be trained in environmental management and the operation of plant and equipment, including pollution control equipment, where relevant. The Program shall include, but not necessarily be limited to:</p> <ol style="list-style-type: none"> identification of relevant employment positions associated with the development that have an operational or management role related to environmental performance; details of appropriate training requirements for relevant employees; a program for training relevant employees in operational and/ or management issues associated with environmental performance; and a program to confirm and update environmental training and knowledge during employment of relevant persons. 	The Operational Environmental Management Plan section 2.3 specifies the Environmental Training Program.	Compliant



No.	Details of Condition	Evidence	Assessment
C4.5	<p>Environmental Auditing</p> <p>Within one year of the commencement of operations and every year thereafter, the Applicant shall fund a full independent environmental audit. The audit must be undertaken by a suitably qualified person/team approved by the Director-General. The audits would be made publicly available and would:</p> <ul style="list-style-type: none">• be carried out in accordance with ISO 14010 – Guidelines and General Principles for Environmental Auditing and ISO 14011 – Procedures for Environmental Auditing;• assess compliance with the requirements of this consent, and other licences and approvals that apply to the development;• -assess the construction against the predictions made and conclusions drawn in the development application, EIS, additional information and Commission of Inquiry material; and• review the effectiveness of the environmental management of the development, including any environmental impact mitigation works. <p><i>Note: An independent and transparent environmental audit can verify compliance (or otherwise) with the Minister's consent and various approvals. Auditing also provides an opportunity for continued improvement in environmental performance</i></p>	<p>The Independent Environmental Audits have been carried out in compliance with the Development Consent and have been uploaded to the SICTL website at:</p> <p>http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p>	Compliant



6 Complaints Register

Feedback Event Number	Date & time of notification	Source	Direct or indirect feedback	Method	Type of feedback	Nature of feedback	Details of enquiry or feedback	Action taken by SICTL & follow up
SF0007	01-09-2014 1:12pm	NSW Ports	Indirect	Email	Negative Feedback	Noise	Resident Complained that they could hear a droning noise that they believed was from a ship's generator.	SICTL was unable to take any action because the ship that was the potential source of the noise had already left. One vessel was alongside on the morning of 1 September. Resident complained to NSW Ports at 1:50am on 1 Sep 14 but was not certain of the origin of the noise. Resident speculated that the noise was from a ship's generator.
SF0008	07-11-2014	Ext. Stakeholder	Direct	Mail	Negative Feedback	Noise	In a letter addressed to SICTL (dated 28 October 2014), the Federal MP Representative raised concerned from local community about noise from the Port Botany area in general, and requested a meeting to discuss noise complaints.	NSW Ports were notified by SICTL at 9:27am on 10 Nov-14. In response to the letter, SICTL contacted the office of the Federal MP Representative on 10 November and advised that SICTL was working in concert with NSW Ports on this issue. A meeting was organised by NSW Ports with the Federal MP Representative for Wednesday 12 November, with an invitation for SICTL representative to attend or alternatively provide the latest noise monitoring report. SICTL provided the required noise monitoring report as input into the meeting between NSW Ports and the Federal MP Representative.
SF0009	26-05-2015, 11.00am	Resident	Direct	Phone (direct)	Negative Feedback	Noise	A resident of Edgehill Ave Botany contacted NSW Ports in regards to a noise complaint regarding "container noise" e.g. loud banging, prevalent between 2am and 3am on 26 May 2015. NSW Ports has responded to the resident and confirmed that on-ground operations are 24/7, however there was not a ship in at SICTL during the times mentioned. The resident also asked about other potential noise sources in the Botany area and was advised to contact Botany Council regarding details for those.	SICTL has undertaken a review of the potential sources of the noise complaint. As confirmed by NSW Ports, during the time specified in the complaint there were no vessels under stevedore operation or moored at SICTL. SICTL has also reviewed other activities that could potentially cause "container noise" or "banging" and have concluded that the truck loading or unloading services (using ReachStacker or ASC equipment) is not likely to have caused any "banging" due to the nature of the machine speed and operation of the equipment. During the time specified in the complaint no rail operations were undertaken.



7 Performance to EIS, Commission of Inquiry (COI) and S96 Application obligations

☺ = Largely as predicted/concluded

😊 = Partially as predicted / unknown / as predicted

☹ = Not as predicted

NA = Not applicable

EIS Predictions and Conclusions			
Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 16 Hydrology and Water Quality			
16.4.2	<p>Surface Water Quality Initial consolidation of material in the reclaimed area is expected to take up to two years. During this time the surface of the reclamation, if not protected, may be subject to erosion.</p> <p>Erosion and Sedimentation Dredged or construction material stockpiles and active construction areas may be subject to erosion and sedimentation from surface runoff.</p>	<p>Phase 1 and 2 of construction at SICTL has now been completed and these areas are fully surfaced and sealed. The Phase 3 area is unsurfaced.</p> <p>Dust mitigation activities such as water and polymer spraying of stockpiles and unsealed areas were undertaken by the construction contractors during 2014.</p> <p>Between 15 December 2014 and 2 May 2016 a Control (Red Imported Fire Ant) Order was in place at Port Botany, and prevented SICTL from further dust mitigation activities on site.</p> <p>No visible dust emissions were reported to SICTL during this period.</p>	☺
Ch. 17 Groundwater			
17.6.2	<p>Groundwater Quality The operation of the new terminal is expected to have minimal effect on groundwater quality. Once operational, all terminal activities would be conducted in a manner to prevent contamination of surface or groundwater from operational activities. An Operational EMP would be developed in the detailed design phase to ensure an adequate standard is applied to contamination control for the operation of the new terminal</p>	<p>The operational areas of the terminal are fully sealed. SICTL has prepared and implemented the following documents under its OEMP:</p> <ul style="list-style-type: none"> • HSEQ5.1.7g Handling of Dangerous Goods and Hazardous Substances Sub-Plan; • HSEQ5.1.7f Stormwater Management Sub-Plan; and • HSEQ5.1.7h Waste Management On-Site Sub-Plan. <p>These documents describe the controls which SICTL has in place to control any spills and waste which occur during the course of its operations. The Stormwater Management Sub-Plan further details how SICTL will ensure that any surface pollutants shall be captured and treated in order to minimise the contamination of groundwater or waters.</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 18 Geology, Soils and Geotechnical			
18.4.2	<p>Soil Erosion</p> <p>The operations at the new terminal would take place on reclaimed and hard-surfaced pavement. There is no requirement for soil removal or disturbance during operation of the terminal. Stormwater collection and treatment systems would be designed to capture surface water runoff from all impervious surfaces. Therefore, the operation of the new terminal is expected to have minimal effects on soil erosion.</p> <p>Soil in the vicinity of facilities outside the new terminal area, such as the proposed railway, boat ramp and car park, would be stabilised and erosion in these areas would be low.</p>	<p>Stormwater collection and treatment devices have been installed at SICTL and are operational.</p> <p>There is no evidence of soil erosion identified in the operational areas.</p>	☺
18.4.3	<p>Sediment Contamination</p> <p>Leaks and spills from operations at the new container terminal would be contained by the proposed stormwater detention and treatment system. There is low potential for leaching of contaminants through the hard stand areas. Environmental management measures would be included in the Operational EMP</p>	<p>Stormwater collection and treatment devices have been installed at SICTL and are operational.</p> <p>SICTL operational employees have been trained in the control of environmental spills and all incidents are quickly identified, contained and reported.</p>	☺
18.5.2	<p>Operation</p> <p>The operation of the new terminal would have minimal effects on geology, soils and geotechnical issues. Once operational, all terminal activities would be conducted in a manner to prevent soil erosion and contamination from operational activities.</p> <p>A SWMP would be developed as part of an Operational EMP to ensure an adequate standard is applied to sediment control for the operation of new terminal. This plan would also address stormwater management and be prepared in accordance with NSW EPA requirements. The SWMP for operations would be incorporated in the Operational EMP. Management measures would include:</p> <ul style="list-style-type: none"> • a first flush system to capture sediment and contaminants from surface water runoff from the new terminal; • treatment of surface water runoff from potential pollutant areas on the new terminal by a wastewater treatment system prior to discharge to sewer; • investigation of the feasibility of installation of sediment traps on Floodvale and Springvale Drains to reduce influx of sediment to Penrhyn Estuary; • emergency response plan for fuel, oil and chemical spills; and • storage and handling of all dangerous goods in accordance with Australian Standards, Dangerous Goods Regulations and NSW EPA requirements. 	<p>Stormwater collection and treatment devices have been installed at SICTL and are operational.</p> <p>There is no evidence of soil erosion identified in the operational areas.</p> <p>SICTL has prepared and implemented the following documents under its OEMP:</p> <ul style="list-style-type: none"> • HSEQ5.1.7g Handling of Dangerous Goods and Hazardous Substances Sub-Plan; • HSEQ5.1.7f Stormwater Management Sub-Plan; and <p>The HSEQ10.1.3 Emergency Response Plan – SICTL has also been developed and implemented to describe the plans for managing any spill or environmental emergency.</p> <p>These documents have been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 19 Aquatic Ecology			
19.6.1	<p>Noise, Vibration and Light Vibration would occur as a result of construction and operation of the new terminal. Most aquatic animals would tend to habituate to the changes in noise and vibration, therefore, impacts could be considered as low.</p> <p>Introduced Species There appear to be no aspects of the proposal likely to enhance the risk of the introduction of exotic species, other than an increase in risk associated with greater numbers of vessels using Port Botany. In terms of introduced species already in Botany Bay, there is some risk of changes in distribution associated with the proposed port expansion for</p> <ul style="list-style-type: none"> • <i>Caulerpa taxifolia</i> presently occurring along Foreshore Beach. 	<p>The level of vibrations at SICTL would be inline with the types of activities conducted at the adjacent terminals. SICTL operations as yet are not fully 24/7 due to limited shipping line contracts; night shifts and weekend operations are uncommon.</p> <p>SICTL operations have not directly resulted in any increase of vessels in the Port Botany area.</p> <p>In the latest Seagrass Summary Report dated April 2015, there is no mention of the <i>Caulerpa taxifolia</i> in the Foreshore Beach or Penrhyn Estuary area. See report uploaded to the SPC website: http://www.sydneyports.com.au/sustainability/penrhyn_estuary_rehabilitation/monitoring_and_reporting2</p>	☺
19.6.2	Management of the possible spread of <i>Caulerpa Taxifolia</i> would form part of a Construction and Operational EMP	<p>The management of <i>Caulerpa Taxifolia</i> is not included in the SICTL Operational EMP or the sub-plans, as SICTL has limited control over activities outside of the terminal boundaries. However the management and monitoring of <i>Caulerpa Taxifolia</i> is addressed in the Penrhyn Estuary Habitat Enhancement Plan. Within the Port Botany Post-Construction Environmental Monitoring Annual Report 2015 the following finding has been made: “The invasive alga <i>Caulerpa taxifolia</i> has been recorded previously in areas surveyed at Foreshore Beach but not in post-construction surveys to date. The absence of <i>C. taxifolia</i> from the study area is favourable for the recovery of seagrass, as <i>C. taxifolia</i> is highly competitive and its absence removes further challenges to successful recolonisation.” The Annual Report has been uploaded to the following website: http://www.sydneyports.com.au/_data/assets/pdf_file/0006/32964/EL1112046_Port_Botany_-_Compiled_Annual_Report_2015_v4_-_Final.pdf</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
19.7.2	<p>Marine Mammals</p> <p>With the current operation of the port it appears that marine mammals are able to co-exist with the port operations. A Marine Mammal Management Plan would, however, be prepared to ensure that the occurrence of marine mammals in the vicinity of the port during operations is appropriately managed. This would form part of the Operational EMP and would be prepared in consultation with NPWS</p>	<p>The SICTL Operational EMP does not include a Marine Mammal Management Plan.</p> <p>The Port Authority of NSW (Sydney Ports) monitors the presence and location of marine mammals in Botany Bay and through Harbour Control will advise commercial vessels and port operators if there is any marine hazard or emergency.</p>	☹️
19.7.4	<p>Monitoring and Feedback – Baseline Monitoring</p> <p>Monitoring of the effects of the proposed port expansion on aquatic ecology would require investigation during construction and operation. Monitoring would be required before construction begins to compile appropriate baseline data. The proposed monitoring would be described in the Construction and Operational EMPs for the project and would include the measures described below:</p> <p>The Water Column – Following construction, water quality would be measured on a regular basis within Penrhyn Estuary. Indicators would include turbidity, dissolved oxygen, temperature, salinity, pH, nutrients, heavy metals and organic contaminants. In particular, organic contaminants (eg VHCs) would be measured in relation to an influx of contaminated groundwater into Penrhyn Estuary.</p> <p>Seagrass, Algae and Associated Fauna - Monitoring programs would be designed and implemented for seagrass during the construction and operational phases of the project. The seagrass indicators that would be considered include extent and coherence of beds (i.e. patchiness) and morphological characteristics, including shoot density, leaf length and width and extent of epiphytic growth. The occurrence and persistence of nuisance algae within Penrhyn Estuary as a result of nutrients from the catchments of Floodvale and Springvale Drains would be monitored to enable an appropriate management response. Finally, organisms utilising the compensatory seagrass beds would be monitored to evaluate diversity and abundance. It is suggested that a good indicator of this would be fish and mobile invertebrates (e.g. prawns) which can be readily collected using standard sampling procedures (e.g. seine nets).</p>	<p>The management and monitoring of the effects on aquatic ecology in the Penrhyn Estuary is covered in the Penrhyn Estuary Habitat Enhancement Plan. The results are summarised within the Port Botany Post-Construction Environmental Monitoring Annual Report which has been uploaded to the following website: http://www.sydneyports.com.au/_data/assets/pdf_file/0006/32964/EL1112046_Port_Botany_-_Compiled_Annual_Report_2015_v4_-_Final.pdf</p>	😊



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 20 Terrestrial Ecology			
20.8.4	<p>Habitat Enhancement</p> <p>A Vegetation Management Plan (VMP) detailing methodologies for saltmarsh excavation, storage, propagation and transplantation would be prepared and would be incorporated as part of the Construction and Operational EMPs for the project.</p> <p>A Vegetation Management Plan (VMP) detailing methodologies for mangrove removal and control would be prepared and would be incorporated as part of the Construction and Operational EMPs for the project.</p>	<p>The Vegetation Management Plan forms part of the Penrhyn Estuary Habitat Enhancement Plan which has been uploaded to the Sydney Ports website at: http://www.sydneyports.com.au/sustainability/penrhyn_estuary_rehabilitation</p>	😊
20.8.4	<p>Control of Feral Animals</p> <p>The following two measures would assist in the control of feral animals at Penrhyn Estuary, these include:</p> <ul style="list-style-type: none"> • ensure rubbish is placed in appropriately covered bins at all times. Ensure rubbish is regularly disposed; and • should shorebird monitoring during construction and operation of the Port Botany Expansion reveal feral cat and fox predation (on shorebirds) to be an ongoing issue, a 1080 fox baiting program should be initiated in consultation with NPWS and an expert shorebird ecologist. <p>A Feral Animal Management Plan (FAMP) would be prepared as part of the Construction and Operational EMP for the Port Botany Expansion. The FAMP would address fencing and the management of garbage, particularly in the habitat enhancement areas, and the viability of a baiting program to be initiated in conjunction with NPWS.</p>	<p>SICTL has prepared and implemented the HSEQ5.1.7h Waste Management On-Site Sub-Plan and HSEQ5.1.7k Feral Animal Management Sub-Plan under the OEMP.</p> <p>These documents have been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p>	😊
20.10	<p>Conclusion</p> <p>Key impacts from the proposal on the 23 shorebird and one seabird species considered as regular or occasional visitors to Penrhyn Estuary could include disturbance to feeding and roosting from a change in lighting regime, increased movement, noise from construction and operation of the port (and associated infrastructure such as railway lines) and potential entry/exit flyway barriers due to the enclosure of Penrhyn Estuary.</p>	<p>The results of the Shorebird Monitoring Program are summarised within the Port Botany Post-Construction Environmental Monitoring Annual Report 2015: <i>"Four of six key species were present in the 2014- 2015 peak period. The Pacific Golden Plover showed a positive result for the PEHE works, surpassing the target count in five consecutive seasons. Double-banded Plover utilised the estuary at both low and high tides, but is yet to reach its target count. Bar-tailed Godwit have declined at both Penrhyn Estuary and reference locations, indicating impacts at a larger scale. It is unclear why the Red-necked Stint have declined in post-construction years."</i></p>	😐



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Ch. 21 Traffic & Transport			
21.10	Conclusion It has been assumed that the volume moved by rail would be 30% of container throughput by 2006 and 40% by 2011.	The NSW Ports Five Year Port Development Plan (March 2014) states "Over 278,000 TEUs were transported to and from Port Botany by rail in the 2012-13 financial year. This is a 14 per cent share of the Port Botany container trade." The figures reported in the BITRE Maritime Waterline 57 Statistical Report for TEU transported by rail through Port Botany in the Jan-June 2015 period is 19%.	☹
Ch. 22 Noise & Vibration			
22.4.2	Operation Noise Impacts – Sleep Disturbance Impacts All predicted noise levels would be below the external level of 65 dBA which some researchers consider would not result in awakening reactions.	Operational Noise Monitoring undertaken by SICTL in July 2015 did not identify any levels above 65dBA.	☺
22.5.2	Mitigation Measures – Operation A Noise Management Plan containing environmental management measures to assess and minimise noise from the operation of the new terminal would be developed. The Noise Management Plan would be included in the Operational EMP for the new terminal. Noise level emissions would be a criteria for selection of new plant for the site. The quietest possible plant that satisfied the operational performance specifications would be selected and noise control kits fitted where required. Regular maintenance of machinery would be carried out to ensure optimal and efficient operation. Audible safety alarms on some terminal equipment would be turned off during night hours (between 10.00 pm and 6.00 am) and replaced with visual alarms. It is understood that for certain types of equipment e.g. quay cranes (long travel alarm and high wind alarm) alarms are required to remain for safety reasons. In respect of other items of equipment, a safety assessment would be undertaken to identify where the audible alarms could be replaced with visual alarms without affecting safety. Operator awareness and training would be regularly conducted. Good training and awareness of noise issues would be implemented to minimise poor cargo handling practices.	SICTL has prepared and implemented the HSEQ5.1.7d Noise Management Sub-Plan under the OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental Noise level emissions and noise controls are part of the technical specifications for new plant, see: <ul style="list-style-type: none"> • HPA-CON-PB-0007 for the Straddle Carriers • HPA-CON-PB-0008 for the ASC • HPA-CON-PB-0009 for the Quay Cranes Maintenance is carried out on a regular basis in accordance with the OEM and the equipment history/risk. The audible safety alarms are not turned off during night hours (Risk Assessment RA0025.2), however "Quackers" instead of beepers have been installed on most equipment. Quay Crane alarms for the movement of deck lids may be switched to the visual only alarms during night hours. SICTL currently operates only 1-2 nights per week so the impact should be quite low. Training commences with the Employee Induction and the requirements to minimise noise in operations and cargo handling is carried through to all equipment training modules.	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
22.5.2	<p>Mitigation Measures – Operation continued...</p> <p>Complaints would be assessed and responded to in a quick and efficient manner.</p> <p>Noise monitoring would be conducted to assess impacts from the operation of the new terminal at locations most likely to be affected by the new terminal operations. The results of this monitoring would be discussed with the EPA and PlanningNSW to identify any responses required, although the predicted noise levels would not be expected to occur for some years after the commencement of operations in about 2010. By this time, technological and operational changes are likely to be available which would reduce operational noise levels at the new terminal.</p> <p>The Noise Management Plan would also contain the option for shore power to be provided to ships in the future.</p> <p>A Traffic Noise Management Plan would be developed for the new terminal. This plan would consider traffic route selection, traffic clustering and traffic rescheduling.</p>	<p>SICTL responds to all complaints (see details in Section 5 Complaints Register).</p> <p>Noise Monitoring is conducted on a 6 monthly basis in accordance with the EPA Licence. Monitoring results for September/October 2014 and July 2015 have been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p> <p>Yes, the HSEQ5.1.7d Noise Management Sub-Plan does consider the future option for shore based power (section 5.1.6)</p> <p>SICTL has prepared and implemented the HSEQ5.1.7e Operational Traffic Management Sub-Plan under the OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p>	☺
Ch. 23 Air Quality			
23.8.2	<p>Mitigation Measures – Operation</p> <p>Notwithstanding the fact that the proposed expansion is shown to result in acceptable impacts, the new terminal would be designed and constructed such that it could support the use of alternative energy for ships at berth (i.e. shore power), should ships be able to accept such power in the future. This would reduce ship emissions in the local area.</p>	<p>Although the infrastructure has been installed during construction of the SICTL terminal, Shore Based Power is not immediately available for use as a noise mitigation measure upon commencement. SICTL will commission Shore Based Power at all berths in future construction phases which will compliment other controls for noise mitigation.</p>	☺
Ch. 24 Cultural Heritage			
24.8	<p>Assessment of Impacts During Operation</p> <p>During the operational phase of the Port Botany Expansion there would be no impacts on Aboriginal, European or maritime heritage resources in the primary or secondary study area</p>	<p>The SICTL terminal was constructed on reclaimed land and the operational areas are fully sealed. There have been no incidents of heritage impacts reported.</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 25 Visual Impact			
25.5	<p>Mitigation Measures</p> <p>Quay Crane specification – quay cranes for the new terminal would be approximately 50 m high</p> <p>Container Stacking height – containers would not be stacked more than six high (18 m) and would typically be only three high (9 m), as is the case with the existing terminals.</p> <p>Noise Wall – the proposed noise wall near the edge of the new terminal would be approximately 4 m in height and would partially screen the operations of the new terminal when viewed from foreshore areas near the port</p>	<p>Maximum operating height of the SICTL Quay Cranes of 51.055m AHD has been approved by Aviation Environment, Aviation and Airports Division of the Department of Infrastructure and Transport on 04-09-2013.</p> <p>The ASC utilised at SICTL terminal will be stacked no more than 5 high (as controlled by nGen software programming).</p> <p>The 4m high noise wall was erected during the construction phase on the northern and eastern boundaries of the SICTL terminal.</p>	😊
Ch. 26 Social Impact Assessment			
26.5.6	<p>Employment Opportunities</p> <p>Operation of the new terminal is expected to generate a substantial number of jobs, which is an important social benefit. The number of people employed directly in the operation of the new terminal has been estimated at more than 1,100 by 2010, increasing to more than 3,700 by 2025. This does not include any jobs created indirectly eg workers in the industries supplying materials to the port. The total number of jobs generated both directly and indirectly by the operations of the new terminal is estimated to be more than 2,800 by 2010 increasing to more than 9,100 by 2025</p>	<p>At 30-August 2015 SICTL employed 165 staff (118 Operations and Maintenance and 47 Management/Support Staff). These figures are significantly less than those predicted in the EIS. The terminal is still incomplete and SICTL faces significant challenges to growing its shipping line portfolio and stevedoring business in the competitive market.</p>	😞



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 28 Preliminary Hazard Analysis			
28.10.1	<p>Risk Management – Mitigation Measures</p> <p>The following mitigation measures would be implemented to manage the hazards and risks described above:</p> <ul style="list-style-type: none"> (i). containers with dangerous goods would be handled and transported in accordance with the Australian Standard 3846 (1998): The Handling and Transport of Dangerous Goods in Port Areas and the NSW Dangerous Goods (General) Regulation 1999; (ii). an Occupational Health and Safety Plan would be developed by the terminal operator(s) to address the handling and transport of dangerous goods during the operation of the new terminal; (iii). a notification system for the arrival or delivery of dangerous goods would be implemented; (iv). restrictions on the time dangerous goods are allowed to be held within the port would be applied, supported by a loading/unloading plan and arrangement of transport to/from the berths; (v). various classes of dangerous goods would be separated by safe distances on the berth; (vi). suitable container handling equipment would be used to minimise risk of dropped containers; (vii). suitable container loading/unloading, handling and stacking systems would be employed to minimise double handling and attendant risk of damaging containers; (viii). the facility would be fitted with adequate yard signage and warning systems for mobile equipment; (ix). there would be adequate warning systems for ships moving in the vicinity of the facility; (x). a first flush drainage system would be installed and maintained to contain spills and contaminated runoff; (xi). bunds would be constructed around diesel storage tanks; (xii). fire fighting equipment would be provided and personnel trained in fire fighting and evacuation procedures; and (xiii). emergency and incident management procedures would be developed (refer to Chapter 32 Emergency and Incident Management). 	<p>(i) and (ii) The HSEQ5.1.7 Handling of Dangerous Goods and Hazardous Substances Sub-Plan has been developed in accordance with AS3846 and the WHS Act and Regulation (the NSW Dangerous Goods (General) Regulation 1999 has been repealed; provisions saved under the WHS Regulation).</p> <p>(iii) the Sydney Ports ShiPS online system controls the movements of all dangerous goods (import and export) to the terminal.</p> <p>(iv) Dangerous Goods are classified as Red line or Green line cargo in the ShiPS system and truck bookings are controlled to limit the duration that cargo is stored within the terminal.</p> <p>(v) SICTL uses nGen software to program DG separation into the ASC stacking plans, and container movements around the terminal.</p> <p>(vi) SICTL uses Quay Cranes, ASC and Shuttle Carriers with spreaders which lift containers from the top. Quay Cranes and ASC have automated and manual systems to prevent containers from uncontrolled falls/drops.</p> <p>(vii) SICTL's operations are designed to minimise double-handling.</p> <p>(viii) SICTL utilises line marking, signage and fish-eye mirrors around the terminal, and all terminal vehicles are fitted with flashing lights and reversing quackers.</p> <p>(ix) SICTL does not control the berthing of vessels, this task is undertaken by the Port Authority Pilot and third party tug and line service providers.</p> <p>(x) SICTL has installed a SQIDS system – using SPEL 'Stormceptor' and Humes 'Aquaceptor' separator units.</p> <p>(xi) Bunding has been constructed around the diesel refuelling station.</p> <p>(xii) Fire Fighting equipment is installed at the SICTL terminal and SICTL staff has been trained in its use and in evacuation procedures.</p> <p>(xiii) Yes - HSEQ 10.1.3 Emergency Response Plan</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 29 Bird Hazard			
29.3.3	<p>Assessment of Impacts – Operation</p> <p>Sealed surfaces often provide ideal roost sites for large numbers of birds especially Silver Gulls. Bitumen surfaces provide a warm surface for roosting and are particularly attractive where areas are not subject to regular disturbance. These undisturbed open spaces have the potential to attract significant numbers of birds to the site, thereby potentially increasing the risk of bird strike at Sydney Airport.</p> <p>Areas illuminated at night are also likely to attract birds, especially Silver Gulls, as they provide a secure roosting environment and attract insects which birds feed upon.</p> <p>The additional port land may provide large areas of suitable roosting habitat for the Silver Gull. Flat surfaces of buildings, such as roofs, may provide suitable places for Silver Gulls to roost. Openings and ledges may provide roosting and nesting habitat for Feral Pigeons, Common Starlings, Common Mynas and other bird species associated with buildings.</p> <p>The pavements and buildings associated with the new terminal have the potential to attract significant numbers of birds to the site, thereby potentially increasing the risk of bird strike at Sydney Airport. It is therefore important to initiate deterrent strategies.</p>	<p>SICTL has prepared and implemented the HSEQ5.1.7c Bird Hazard Management Sub-Plan under its OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>SICTL has adopted the following measures to discourage bird attraction to the terminal:</p> <ul style="list-style-type: none"> • No eating is permitted outside of the buildings; • Use of closed bins to reduce the risk of bird attractant; • Control of littering through signage, induction training and regular toolbox talks; • the design of rooves and gutters of terminal buildings to deny birds the opportunities to make nests. <p>SICTL staff are required to report any hazards or the presence of nesting or injured wildlife, including any eggs. During this reporting period only one incident was reported - dated 9 Oct 2014, two birds which had been found nesting on top of containers. The birds were removed and taken to a local veterinarian.</p>	😊
29.4.2	<p>Deterrent Action – Operations</p> <p>Regular monitoring of the site, including after nightfall, would be undertaken to determine whether birds are attracted to the site. If required, deterrent systems would be employed to prevent the build up of birds in the new terminal and public recreation areas. Examples of deterrent systems include:</p> <ul style="list-style-type: none"> • flagging or streamers; • perch spikes; • fishing lines strung across bird landing paths; • distress calls – designed to scare birds away; • cracker shells • strobes or moving spotlights <p>At the first signs of a deterrent system failing to work, alternative methods would be used to supplement or replace the existing bird deterrent system.</p>	<p>As above, SICTL staff are required to report any hazards or the presence of nesting or injured wildlife, including any eggs. There have been no reported instances of birds roosting/nesting on site or feeding on site after nightfall.</p> <p>SICTL has not been required to implement any of the deterrent actions at this stage.</p>	😊



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 30 Operational Aviation Issues			
30.4.2	<p>Assessment of Impacts – Operation Air Space There would be no fixed or mobile structures in the new terminal that would intrude into the OLS.</p> <p>Light Spill It is anticipated that light spill from the Port Botany Expansion would not adversely impact operations at Sydney Airport due to the following lighting design measures:</p> <ul style="list-style-type: none"> • High masts - lighting would be directed down to the intended application area with minimal light spill outside the area boundaries, by using asymmetric distribution horizontal flat glass floodlights, and would comply with CASA requirements • Quay cranes - lighting of shuttle boom quay cranes would be specified as downlight type to meet civil aviation regulations. Lighting elements for access/egress stairs and gangways would be mounted horizontal (no tilt) and have internal shielding of the lamps to ensure correct cut off. Obstruction lights would be placed on cranes to mark these in accordance with civil aviation regulations (CAR Regulation 95). • Buildings and associated areas – buildings and other external areas would be lit with floodlights that have a similar cut off lighting performance to those mounted on high masts. Internal building lighting would be similar to that used at the airport terminal and at the existing port facilities. Therefore, these areas would have a negligible impact on operations at Sydney Airport. • Roads – cut off type road lighting and low level lighting elements would be used wherever possible to minimise light spill. 	<p>Maximum operating height of the SICTL Quay Cranes of 51.055m AHD has been approved by Aviation Environment, Aviation and Airports Division of the Department of Infrastructure and Transport on 04-09-2013.</p> <p>SICTL terminal lighting has been designed and installed to comply with the requirements of the Development Consent (see Development Consent clauses C2.23 and C2.24 above)</p> <p>Quay Cranes are fitted with obstruction lights which operate on a 24/7 basis.</p> <p>The terminal (including the buildings and roads) utilise cut-off lighting that will reduce light spill when there are no operations in that area. Internal lighting of buildings are also programmed for the normal operational hours, and with movement sensors that will turn off the lights.</p>	☺
30.5.2	<p>Mitigation Measures – Light Spill</p> <ul style="list-style-type: none"> • lighting on board ships whilst berthed to be provided primarily by the shuttle boom quay cranes with supplementary lighting on board only being provided where necessary; • ships to be berthed facing a specific direction (e.g. north or south) and to only use floodlights mounted on the bridge. The appropriateness of this option could be tested by CASA through a fly-over of the existing Brotherson Dock; and • provide restrictive temporary shielding to any permanent ship mounted floodlights whilst the ship was docked. 	<p>Maritime Order 32 Schedule 1 (2) lighting requires adequate lighting during loading or unloading activities. In some cases the ship will be loaded/unloaded at night and require sufficient lighting to undertake the operations. When vessels are not under stevedore operations, the Quay Crane lights (except the beacon lights) will be switched off in order to minimise the light glare or distraction to pilots. Vessels are berthed facing south.</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
Ch. 32 Emergency & Incident Management			
32.1	Introduction The future operator(s) of the new terminal, with advice from Sydney Ports Corporation, would prepare an ERIMP to manage these potential emergencies prior to the new terminal commencing operations. The purpose of the ERIMP would be to provide an organised and practised response to incidents and emergency situations to protect employees, the public and the environment.	SICTL has developed and implemented the HSEQ 10.1.3 Emergency Response Plan (v3 dated 17-10-2013 was approved in a letter dated 4-11-13 by the NSW Department of Planning and Infrastructure.) The latest version v4 is available on the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental	☺
32.2.4	Specific Sub-Plans – Spill Containment and Management The proposed new terminal would be equipped with emergency response equipment typically comprising absorbent materials, absorbent pads to block drainage points and protective equipment consisting of gloves, rubber boots, eye protection etc.	Emergency Spill Kits are situated in key locations around the terminal – ie, Quay Cranes, landside ASC, waterside ASC, Shuttle Bay, Dangerous Goods containment area, Rail Siding and Maintenance Workshop. Additional bunding is kept in the Maintenance work area – accessible to maintenance and operations staff in an emergency.	☺
Ch. 33 Water & Wastewater			
33.2.2	Water Usage – Operation Water used for operational activities that do not require potable water, would be sourced from treated surface water runoff stored in two 10,000 L tanks at the northern end of the new terminal. Operational reuse of this water would include maintenance activities, washdown and irrigation.	SICTL has installed 3 x 30,000L water storage tanks beneath the Operations Building. The stored water will be used to flush toilets/urinals and for plant wash down. See drawing: DW-B-HD-11002[A]	☺
33.3.2	Wastewater – Operation All trade waste generated during the operation of the new terminal would discharge to the Sydney Water Corporation sewerage system under a Trade Waste Agreement. The Trade Waste Agreement would determine the level of treatment required prior to discharge. All areas where washdown or maintenance activities are to be undertaken would be bunded and provided with sump pits, grit traps and oil/water separators. This would also be the case for any additional bunded storage areas, such as those used for refueling and fuel storage. Water collected in these areas would be tested and disposed to the sewerage system, or if unsuitable for disposal to sewer would be disposed offsite by a licensed waste disposal contractor.	SICTL has a Commercial Trade Wastewater Permit (ref No:37958 dated 17 July 2015). The plant wash-down area in the Maintenance building is bunded and the wastewater is collected in a separate pit with a separator unit for oil/water. A third party contractor is used to pump out the waste and contaminated water from the collection units when required. The refuelling area is also bunded with a separate pit for any spills that occur. The refuelling area is not currently being used by operations, and there have been no spills in this area.	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment
33.5	<p>Water and Wastewater Management</p> <p>The following mitigation measures would be adopted for the proposed Port Botany Expansion:</p> <ul style="list-style-type: none"> water use and wastewater discharge at the site would be subject to a Water Resources Management Plan (WRMP), which would form part of the construction and operational EMPs. These plans would include water minimisation strategies as well as monitoring and testing schedules for wastewater as required; clean, treated stormwater would be collected in two 10,000 L water storage tanks at the northern end of the new terminal to allow reuse for maintenance, washdown and irrigation; dual flushing toilets, minimal flow shower heads and regular maintenance to identify leaking or dripping taps and pipes would be implemented during construction and operation; monitoring and testing would be undertaken prior to discharge of treated wastewater, to ensure compliance with the site Trade Waste Agreement. 	<p>SICTL has prepared and implemented the HSEQ5.1.7i Water and Wastewater Management Sub-Plan under its OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>SICTL has installed 3 x 30,000L water storage tanks beneath the Operations Building. The stored water will be used to flush toilets/urinals and for plant wash down. See drawing: DW-B-HD-11002[A]</p> <p>Dual-flushing toilets and minimal flow shower-heads have been installed. Maintenance of any leaking or dripping taps and pipes is undertaken as soon as it has been identified.</p> <p>Monitoring and testing is in line with SICTL's Commercial Trade Wastewater Permit (ref No:37958 dated 17 July 2015). The Backflow Prevention Devices were tested on 16-12-2014 and 23-12-2014.</p>	☺
Ch. 34 Waste			
34.4.2	<p>Waste Management and Disposal – Operational Waste</p> <p>An Operational WMP would be developed and implemented for the new terminal in accordance with the requirements of the <i>Waste Avoidance and Resource Recovery Act 2001</i>, the <i>Protection of the Environment Operations Act 1997</i>, the EPA's <i>Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes</i> (1999), the <i>Botany Bay DCP 29</i> and the <i>National Minimisation and Recycling Strategy</i>. The plan would be incorporated into the Operational EMP for the terminal</p> <p>Recycling facilities would be provided at the new terminal and in public recreation areas to maximise recycling of waste materials such as plastic and glass bottles/containers, aluminium cans and paper/cardboard. Separate bins would be provided for food waste and fish remains from fish cleaning facilities in the public recreation area. All domestic waste would be collected on a regular basis and transported off site for disposal to a licensed landfill or recycling facility as appropriate. Litter bins would be designed in accordance with the bird hazard guidelines</p>	<p>SICTL has prepared and implemented the HSEQ5.1.7h Waste Management On-Site Sub-Plan under its OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p> <p>SICTL has implemented a recycling program where bins have been placed in the kitchen and lunchroom areas to separate plastic, glass and aluminium. Paper and cardboard are collected by the cleaners (paper is generally shredded) and placed in the appropriate recycling bin.</p> <p>SICTL use Suez Recycling & Recovery Pty Ltd (SITA) to remove all waste materials.</p>	☺



Section	Prediction / Conclusion	Environmental Impact Assessment / Evidence	Assessment						
34.4.2	Waste oils and fluids from maintenance activities may be classified under the POEO Act as being Hazardous, Industrial or Group A Waste. The management of these substances may need to be regulated by an EPA Environment Protection Licence which would be obtained by the terminal operator(s). It is expected that these materials would be collected and stored in proprietary facilities and either be reused onsite or removed by a licensed waste contractor.	<p>SICTL has an Environmental Protection Licence for Chemical Storage. Any waste oils are removed by a licensed waste contractor. SICTL use Suez Recycling & Recovery Pty Ltd (SITA) to remove waste materials such as oily rags and waste oils stored in containers.</p> <p>Suez Recycling & Recovery Pty Ltd are licenced under the EPA for Resource Recovery, Waste Processing (non-thermal treatment) and Waste Storage.</p> <p>Waste oil and fluids collected in the plant wash-down area in the Maintenance building are removed by a third party contractor – waste is pumped out from the collection units when required.</p>	☺						
Ch. 35 Energy									
35.3	<p>Operational Phase The estimated annual energy consumption over the operational life of the project is presented in Table 35.2 (summarised below)</p> <table><tr><td></td><td>2015</td></tr><tr><td>Estimated consumption of electricity (MWh)</td><td>17,000</td></tr><tr><td>Estimated consumption of diesel fuel (litres)</td><td>3,656,000</td></tr></table>		2015	Estimated consumption of electricity (MWh)	17,000	Estimated consumption of diesel fuel (litres)	3,656,000	<p>Actual electricity consumption for 2015: 6,571.4 MWh Actual diesel fuel consumption for 2015: 512,346 L</p>	☺
	2015								
Estimated consumption of electricity (MWh)	17,000								
Estimated consumption of diesel fuel (litres)	3,656,000								
35.4	<p>Energy Conservation and Management A key component of achieving energy conservation would be the development of an Energy Management Action Plan. This plan would be included as part of the Construction and Operational EMPs.</p>	<p>SICTL has prepared and implemented the HSEQ5.1.7I Energy Management Sub-Plan under its OEMP. This document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental</p>	☺						
35.4.2	<p>Operational Phase Design of buildings and terminal layout would aim to achieve the following energy efficiencies:</p> <ul style="list-style-type: none">• Energy Efficient Design• Energy Efficient Equipment• Energy Efficient Work Scheduling and Practice	<p>SICTL has installed energy efficient systems in the buildings including motion-sensors in the internal rooms and corridors to turn lights on and off, climate control air-conditioning with sensors in zones on each floor, external walls in the Operations Building are predominately fitted with large glass windows allowing additional light into the building (these glass windows are fitted with blinds and block-out blinds to control heat and light).</p>	☺						



8 Compliance to EPBC DSEWPC Approvals – EPBC 2002/543 Audit Checklist

Compliant: Complies with all requirements of the condition(s)

Observation: A situation observed during the audit that provides an opportunity for improvement or is not necessarily best practice or requires further consideration.

Non-Compliant: Does not fully comply with all requirements of the condition. These are categorised as minor or major, depending on the severity of the non-compliance.

Not Applicable: There were either no compliance issues related to the condition, is a future required action, was not applicable at the time of the audit or was not related to a SICTL responsibility.

Paragraph	Approval Requirement	Evidence	Assessment
1	The person taking the action must construct the port expansion involving the creation of five additional shipping berths, the provision of road, rail and terminal infrastructure and the enhancement of public and ecologically significant areas, in accordance with the site plan shown at ANNEXURE 2 to this approval.	The SICTL terminal conforms to the approved site plan.	Compliant
2	Prior to the commencement of construction, the person taking the action must inform the Minister how radar and air navigation issues associated with the port expansion have been resolved to the satisfaction of Airservices Australia.	Not relevant to SICTL Operations – from SPC Audit Reports it is recorded that SPC received confirmation from Department of Environment, Water, Heritage and the Arts (DEWHA – dated 2/07/07) that this condition has been satisfactorily addressed	Compliant
3	The person taking the action must prepare and submit for the Minister's approval a habitat enhancement plan for Penrhyn Estuary to manage impacts on listed migratory bird species during the construction and operation of the new port facilities at Port Botany. The plan must address the matters listed below and state the environmental objects, performance criteria, monitoring, reporting, corrective action, responsibility and timing for each of these matters: a) A detailed description of habitat enhancement works including methodology and staging of works; b) Habitat management and maintenance measures; c) A habitat monitoring programme; d) Flushing of Penrhyn Estuary; e) Measures to detect and respond to issues identified in the habitat monitoring programme; and f) Reporting requirements that include protocols to inform the Minister of relevant issues, milestones, and the results of surveys and studies. The action must not commence until the plan has been approved. The approved plan must be implemented.	Not relevant to SICTL Operations – The Penrhyn Estuary Habitat Enhancement Plan was implemented by SPC prior to construction of the PBE area. Ongoing monitoring and reporting in accordance with the PEHEP can be found on the Sydney Ports website: http://www.sydneyports.com.au/sustainability/penrhyn_estuary_rehabilitation/monitoring_and_reporting2	Compliant



Paragraph	Approval Requirement	Evidence	Assessment
4	Should the person taking the action wish to amend or change the habitat enhancement plan approved under paragraph 3, a revised version of the plan must be submitted to the Minister for approval. If the Minister approves such a revised plan, that plan must be implemented in place of the plan as originally approved.	Not relevant to SICTL Operations – no revisions of the PEHEP have been made.	Compliant
5	If the Minister believes that it is necessary or desirable for the better protection of the environment to do so, the Minister may request the person taking the action to make specified revisions to a plan or plans approved pursuant to paragraphs 3 or 4, and to submit the revised plan for the Minister's approval. The person taking the action must comply with any such request. If the Minister approves a revised plan pursuant to this condition, the person taking the action must implement that plan instead of the plan as originally approved.	SICTL has not received any request from the Minister to make any revisions to plans.	Compliant
6	The habitat enhancement plan required under condition 3 must be reviewed and resubmitted to the Minister for approval every five years or as otherwise agreed by the Minister. The resubmitted plan must incorporate the relevant results of the independent audit report required under condition 7	Not relevant to SICTL Operations – the PEHEP was implemented in March 2007. The same version is available on the Sydney Ports website at the time of this AEMR report.	Compliant
7	After construction of the new port facilities at Port Botany has been completed, and every five years thereafter or as otherwise agreed by the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval for the new port facilities at Port Botany, and the effectiveness of measures to mitigate impacts on listed migratory bird species, is carried out. The independent auditor must be accredited by the Quality Society of Australasia, or such other similar body as the Minister may notify in writing. The audit criteria must be agreed by the Minister and the audit report must address the criteria to the satisfaction of the Minister. An audit report must be given to the Minister within six months of the fifth anniversary of completion of construction of the new port facilities at Port Botany, and within six months of every fifth anniversary thereafter.	The construction of the SICTL terminal is still ongoing, and no action is required at this time.	N/A
8	By 1 July of each year after the date of this approval or as otherwise agreed by the Minister, the Chief Executive Office of Sydney Ports Corporation must provide written certification that Sydney Ports Corporation has complied with the conditions of approval.	Not relevant to SICTL Operations – unknown if SPC has provided this letter to the Minister (not publicly available).	N/A
9	If, at any time after 5 years from the date of this approval, the Minister notifies Sydney Ports Corporation in writing that the Minister is not satisfied that there has been substantial commencement of construction of the action, construction of the action must not thereafter be commenced.	Not relevant to SICTL Operations – the approval was issued to SPC on 3 January 2006 and construction of the PBE project commenced in May 2008 (within the 5 year timeframe).	Compliant



9 Environmental Protection Licence

Compliant: Complies with all requirements of the condition(s)

Observation: A situation observed during the audit that provides an opportunity for improvement or is not necessarily best practice or requires further consideration.

Non-Compliant: Does not fully comply with all requirements of the condition. These are categorised as minor or major, depending on the severity of the non-compliance.

Not Applicable: There were either no compliance issues related to the condition, is a future required action, was not applicable at the time of the audit or was not related to a SICTL responsibility.

No.	Details of Licence Requirement	Evidence	Assessment															
2	Limit Conditions																	
L1.1	<p>Pollution of waters</p> <p>Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.</p>	There have been no reported Incidents relating to any spill or loss of containment that would cause any waters to be polluted.	Compliant															
L2.1	<p>Waste</p> <p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column title “Waste” and meeting the definition, if any, in the column titles “Description” in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled “Activity” in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled “Other Limits” in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table><tr><th>Code</th><th>Waste</th><th>Description</th><th>Activity</th><th>Other Limits</th></tr><tr><td>NA</td><td>General or Specific exempted waste</td><td>Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005</td><td>As specified in each particular resource recovery exemption</td><td>NA</td></tr><tr><td>NA</td><td>Waste</td><td>Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act.</td><td>-</td><td>NA</td></tr></table>	Code	Waste	Description	Activity	Other Limits	NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA	NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act.	-	NA	<p>SICTL does not receive any waste at the terminal.</p> <p>Waste which is to be exported, is covered by export licences and permits managed by the consignors and consignees.</p>	Compliant
Code	Waste	Description	Activity	Other Limits														
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA														
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act.	-	NA														



No.	Details of Licence Requirement	Evidence	Assessment																																																																														
L3.1	<p>Noise limits</p> <p>Noise from the premises must not exceed the noise limits presented in the table below. Note the limits represent the noise contribution at the nominated receiver locations in the table.</p> <table><tr><th>Most Affected Residential Location</th><th>Day</th><th>Evening</th><th>Night</th><th>Night</th></tr><tr><td>-</td><td>LAeq(15minute)</td><td>LAeq(15minute)</td><td>LAeq(15minute)</td><td>LAeq(9 hrs)</td></tr><tr><td>Chelmsford Avenue</td><td>40</td><td>40</td><td>40</td><td>38</td></tr><tr><td>Dent Street</td><td>45</td><td>45</td><td>45</td><td>43</td></tr><tr><td>Jennings Street</td><td>36</td><td>36</td><td>36</td><td>35</td></tr><tr><td>Botany Road (north of Golf Club)</td><td>47</td><td>47</td><td>47</td><td>45</td></tr><tr><td>Australia Avenue</td><td>35</td><td>35</td><td>35</td><td>35</td></tr><tr><td>Military Road</td><td>42</td><td>42</td><td>42</td><td>40</td></tr></table>	Most Affected Residential Location	Day	Evening	Night	Night	-	LAeq(15minute)	LAeq(15minute)	LAeq(15minute)	LAeq(9 hrs)	Chelmsford Avenue	40	40	40	38	Dent Street	45	45	45	43	Jennings Street	36	36	36	35	Botany Road (north of Golf Club)	47	47	47	45	Australia Avenue	35	35	35	35	Military Road	42	42	42	40	<p>Noise Monitoring Assessments were conducted by Marshall Day Acoustics during this reporting period. The noise emissions from SICTL have been estimated via calculation (worst case scenario is detailed below):</p> <table><tr><th>Location</th><th>Report Date</th><th>Day LAeq (15min)</th><th>Evening LAeq (15min)</th><th>Night LAeq (15min)</th><th>Night LAeq (9hrs)</th></tr><tr><td rowspan="3">Dent Street</td><td>Limit</td><td>45</td><td>45</td><td>45</td><td>43</td></tr><tr><td>Oct 2014</td><td>44</td><td>44</td><td>43</td><td>43</td></tr><tr><td>July 2015</td><td>44</td><td>44</td><td>43</td><td>43</td></tr><tr><td rowspan="3">Jennings Street</td><td>Limit</td><td>36</td><td>36</td><td>36</td><td>35</td></tr><tr><td>Oct 2014</td><td>33</td><td>33</td><td>27</td><td>27</td></tr><tr><td>July 2015</td><td>32</td><td>32</td><td>27</td><td>27</td></tr></table> <p>Report has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p>	Location	Report Date	Day LAeq (15min)	Evening LAeq (15min)	Night LAeq (15min)	Night LAeq (9hrs)	Dent Street	Limit	45	45	45	43	Oct 2014	44	44	43	43	July 2015	44	44	43	43	Jennings Street	Limit	36	36	36	35	Oct 2014	33	33	27	27	July 2015	32	32	27	27	Compliant
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	July 2015	32	32	27	27																																																																												
L3.2	<p>Noise limits</p> <p>Noise from the premises must not exceed the noise limits presented in the Table below. Note the limits represent the noise contribution at the nominated receiver locations in the table.</p> <table><tr><th>Most Affected Residential Location</th><th>Night</th></tr><tr><td>-</td><td>LA1(1 minute)</td></tr><tr><td>Chelmsford Avenue</td><td>53</td></tr><tr><td>Dent Street</td><td>59</td></tr><tr><td>Jennings Street</td><td>55</td></tr><tr><td>Botany Road (north of Golf Club)</td><td>59</td></tr><tr><td>Australia Avenue</td><td>57</td></tr><tr><td>Military Road</td><td>60</td></tr></table>	Most Affected Residential Location	Night	-	LA1(1 minute)	Chelmsford Avenue	53	Dent Street	59	Jennings Street	55	Botany Road (north of Golf Club)	59	Australia Avenue	57	Military Road	60	<p>Noise Monitoring Assessments were conducted by Marshall Day Acoustics during this reporting period. The noise emissions from SICTL have been estimated via calculation (worst case scenario is detailed below):</p> <table><tr><th>Location</th><th>Report Date</th><th>Spreader engaging with ship's hatch cover LA1 (1min)</th><th>Hatch Cover being landed on vessel LA1 (1min)</th><th>Container Landing within Quay Apron LA1 (1min)</th></tr><tr><td rowspan="3">Dent Street</td><td>Limit</td><td>59</td><td>59</td><td>59</td></tr><tr><td>Oct 2014</td><td>59</td><td>59</td><td>48</td></tr><tr><td>July 2015</td><td>59</td><td>59</td><td>48</td></tr><tr><td rowspan="3">Jennings Street</td><td>Limit</td><td>55</td><td>55</td><td>55</td></tr><tr><td>Oct 2014</td><td>49</td><td>47</td><td>35</td></tr><tr><td>July 2015</td><td>49</td><td>47</td><td>35</td></tr></table> <p>Report has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p>	Location	Report Date	Spreader engaging with ship's hatch cover LA1 (1min)	Hatch Cover being landed on vessel LA1 (1min)	Container Landing within Quay Apron LA1 (1min)	Dent Street	Limit	59	59	59	Oct 2014	59	59	48	July 2015	59	59	48	Jennings Street	Limit	55	55	55	Oct 2014	49	47	35	July 2015	49	47	35	Compliant																															
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No.	Details of Licence Requirement	Evidence	Assessment
L3.3	Noise Limits For the purpose of Condition L3.1 and Condition L3.2: <i>Day</i> is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays. <i>Evening</i> is defined as the period from 6pm to 10pm on any day. <i>Night</i> is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and Public Holidays.	The Noise Monitoring Assessment Reports from Marshall Day Acoustics confirm that these definitions have been applied.	Compliant
L3.4	Noise Limits For the purposes of Conditions L3.1 and L3.2, noise from the premises must be measured or computed at the most affected point on or within the residential boundary, or at the most affected point within 30 metres of the dwelling where the dwelling is more than 30metres from the boundary, to determine compliance with the noise level limits in Conditions L3.1 and L3.2 unless otherwise stated.	The locations for receivers were chosen to comply with the conditions of the EPL and Development Consent. All locations were at the most affected point within the residential boundaries.	Compliant
L3.5	Noise Limits Noise from the premises must be measured at 1m from the dwelling façade to determine compliance with the LA1 (1minute) noise limits at Condition L3.2	The LA1 noise levels were measured at the boundaries of the residences, not a 1m from the façade as it was not possible to access the façade of the resident dwellings at all times of day/night. At such large distances from the SICTL terminal the noise attenuation between the property boundary and a point 1m from the façade is negligible.	Compliant
L3.6	Noise Limits Where it can be demonstrated that direct measurement of noise from the premises is impractical, the EPA may accept alternative means of determining compliance (<i>see Chapter 11 of the NSW Industrial Noise Policy (INP)</i>)	See letter from the Unit Head – Sydney Industry – Environment Protection Authority dated 11 July 2014 relating to proposed methodology for conducting noise measurements and modelling by SICTL.	Compliant
L3.7	Noise Limits The modification factors presented in Section 4 of the NSW Industrial Noise Policy shall also be applied to the contributed noise level from the premises where applicable.	As above, SICTL has approval to utilise alternative methodology to calculate the noise compliance	Compliant
L3.8	Noise Limits The noise limits specified at Conditions L3.1 and L3.2 apply under the following meteorological conditions: a) Wind speeds up to 3m/s at 10metres above ground level; and b) Temperature inversion conditions of up to 1.5C/100m.	The Noise Monitoring Assessment Reports from Marshall Day Acoustics confirm that these definitions have been applied. "In determining the noise levels at the monitoring locations, any data affected by rainfall and high wind speed has been excluded. Data available from the Bureau of Meteorology's Sydney Airport weather station has been used to carry out this analysis."	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
3	Operating Conditions		
O1.1	<p>Activities must be carried out in a competent manner Licensed activities must be carried out in a competent manner. This includes:</p> <ul style="list-style-type: none"> a) The processing, handling, movement and storage of materials and substances used to carry out the activity; and b) The treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity. 	<p>The Scheduled Activity on SICTL's EPA Licence is General Chemicals Storage. This relates to dangerous goods being received, stored, moved and transited through the terminal. It also relates to chemicals kept on site for Maintenance activities.</p> <ul style="list-style-type: none"> • Sydney Ports ShiPS system provides the information relating to DG Class, quantity and type on all DG imports and exports to the SICTL terminal. • SICTL utilises the nGen software system to allocate storage locations for all dangerous goods (ensuring separation where required). • Chemicals and Dangerous Goods used for Maintenance are stored in purpose built DG Containers or in bunded areas within the Maintenance Building. • All equipment operators have been trained and (where required) licenced to operate the container handling equipment including Quay Cranes, ASC, Shuttle Carriers, ReachStackers, Forklifts, and trailers. • Any waste generated by the terminal is removed by Suez Recycling & Recovery Pty Ltd (SITA). Suez Recycling & Recovery Pty Ltd are licenced under the EPA for Resource Recovery, Waste Processing (non-thermal treatment) and Waste Storage. 	Compliant
O2.1	<p>Maintenance of plant and equipment All plant and equipment installed at the premises or used in connection with the licensed activity:</p> <ul style="list-style-type: none"> a) Must be maintained in a proper and efficient condition; and b) Must be operated in a proper and efficient manner. 	<p>Maintenance of plant and equipment is in accordance with the OEM guideline, and with respect to any incidents or hazards identified by SICTL operators or maintenance personnel.</p> <p>All equipment operators have been trained and (where required) licenced to operate the container handling equipment.</p>	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
O3.1	Emergency response The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (eg, spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.	The HSEQ10.1.3 Emergency Response Plan (v3 dated 17-10-2013) was approved in a letter dated 4-11-13 by the NSW Department of Planning and Infrastructure. Email dated 29-10-13 from Lilia Donkova of MHU to Ingrid Ilias of DP&I noted that there are no outstanding issues with the plan and is therefore recommended for approval. The updated version (v4) of this document has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Environmental	Compliant
O3.2	Emergency Response In relation to 4.1 Emergency Response: A Pollution Incident Response Management Plan (PIRMP) is the relevant document required.	The PIRMP forms part of the HSEQ10.1.3 Emergency Response Plan .	Compliant
4	Monitoring and Recording Conditions		
M1.1	Monitoring records The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Monitoring records are retained in soft copy on the SICTL server and backed-up as per IT protocol. Hard copies of records are filed and stored in locked offices/cupboards. Monitoring records are also available on the SICTL website: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting	Compliant
M1.2	Monitoring records All records required to be kept by this licence must be: a) In a legible form, or in a form that can readily be reduced to a legible form; b) Kept for at least 4 years after the monitoring or event to which they relate took place; and c) Produced in a legible form to any authorised officer of the EPA who asks to see them.	As above The HSEQ9.1.1 Document Control and Information Management Procedure Appendix B No. 25 specifies that Environmental Records are to be retained on a permanent basis.	Compliant
M1.3	Monitoring records The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) The date(s) on which the sample was taken; b) The time(s) at which the sample was collected; c) The point at which the sample was taken; and d) The name of the person who collected the sample.	As above	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
M2.1	Recording of pollution complaints The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	All complaints are logged in the SICTL OEMP KPIs & complaints 2015 , and the actual complaint (scanned letter or email) is filed on the SICTL server or hard copies filed and kept in a locked office or cupboard.	Compliant
M2.2	Recording of pollution complaints The record must include details of the following: a) The date and time of the complaint; b) The method by which the complaint was made; c) Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) The nature of the complaint; e) The action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) If no action was taken by the licensee, the reasons why no action was taken.	As above	Compliant
M2.3	Recording of pollution complaints The record of a complaint must be kept for at least 4 years after the complaint was made.	As above The HSEQ9.1.1 Document Control and Information Management Procedure Appendix B No. 25 specifies that Environmental Records are to be retained on a permanent basis.	Compliant
M2.4	Recording of pollution complaints The record must be produced to any authorised officer of the EPA who asks to see them.	As above	Compliant
M3.1	Telephone complaints line The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	SICTL has a Community Complaints and Feedback Line – 1800 472 888	Compliant
M3.2	Telephone complaints line The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	The Community Complaints and Feedback Line is displayed on the SICTL website at: http://www.hutchisonports.com.au/community and http://www.hutchisonports.com.au/contact.htm The HSEQ5.1.7 Operational Environmental Management Plan and the Quarterly Community Feedback Reports describe the process for members of the public to make a complaint to SICTL	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
M3.3	Telephone complaints line The preceding two conditions do not apply until 3 months after: a) The date of the issue of this licence or b) If this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.	Not relevant to this reporting period	N/A
5	Reporting Conditions		
R1.1	Annual return documents The licensee must complete and supply to the EPA an Annual Return in the approved form comprising; a) A Statement of Compliance; and b) A Monitoring and Complaints Summary. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	SICTL has completed Annual Returns in the approved form for the reporting periods of 2014 and 2015.	Compliant
R1.2	Annual return documents An Annual Return must be prepared in respect of each reporting period, except as provided below:	2014 Reporting period is 14-October-2013 to 13-October-2014 The Annual Return for 2014 was completed on 28-11-2014 2015 Reporting period is 14-October-2014 to 13-October-2015 The Annual Return for 2015 was completed on 9-12-2015	Compliant
R1.3	Annual return documents Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period. Note: An application to transfer a licence must be made in the approved form for this purpose.	Licence has not been transferred.	N/A



No.	Details of Licence Requirement	Evidence	Assessment
R1.4	Annual return documents Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) In relation to the surrender of a licence – the date when notice in writing of approval of the surrender is given; or b) In relation to the revocation of the licence – the date from which notice revoking the licence operates.	Licence has not been surrendered or revoked.	N/A
R1.5	Annual return documents The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Both returns submitted within the 60 days after the end of the reporting period. The Annual Return for 2014 was submitted on 1 st December 2014, and the Annual Return for 2015 was submitted on 9 th December 2015.	Compliant
R1.6	Annual return documents The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA	The HSEQ9.1.1 Document Control and Information Management Procedure Appendix B No. 25 specifies that Environmental Records are to be retained on a permanent basis.	Compliant
R1.7	Annual return documents Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) The licence holder; or b) By a person approved in writing by the EPA to sign on behalf of the licence holder.	Annual Return for 2014 was signed by Eric Ip (Director) and Malcolm Cooper (Secretary/Director) of SICTL. Annual Return for 2015 was signed by Mark Jack (Director) and Malcolm Cooper (Secretary/Director) of SICTL	Compliant
R1.8	Annual return documents A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.	Not relevant to this reporting period.	N/A
R2.1	Notification of environmental harm Notifications must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	There have not been any notifiable environmental incidents at SICTL during this reporting period.	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
R2.2	Notification of environmental harm The license must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	There have not been any notifiable environmental incidents at SICTL during this reporting period.	Compliant
R3.1	Written Report Where an authorised officer of the EPA suspects on reasonable grounds that: <ul style="list-style-type: none"> a) Where this licence applies to premises, an event has occurred at the premises; or b) Where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event. 	SICTL has not received any requests for written reports from the EPA during this reporting period.	Compliant
R3.2	Written Report The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	SICTL has not received any requests for written reports from the EPA during this reporting period.	Compliant
R3.3	Written Report The request may require a report which includes any or all of the following information: <ul style="list-style-type: none"> a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters. 	SICTL has not received any requests for written reports from the EPA during this reporting period.	Compliant



No.	Details of Licence Requirement	Evidence	Assessment
R3.4	Written Report The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	SICTL has not received any requests for written reports from the EPA during this reporting period.	Compliant
6	General Conditions		
G1.1	Copy of this licence must be kept at the premises to which the licence applies A copy of this licence must be kept at the premises to which the licence applies.	The original copy of the SICTL EPA Licence is filed in the safe with other company documents.	Compliant
G1.2	Copy of this licence must be kept at the premises to which the licence applies The licence must be produced to any authorised officer of the EPA who asks to see it.	Noted – the EPA have not requested to see this licence to date.	Compliant
G1.3	Copy of this licence must be kept at the premises to which the licence applies The licence must be available for inspection by any employee or agent of the licensee working at the premises.	SICTL's EPA Licence has been uploaded to the SICTL website at: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting	Compliant
7	Special Conditions		
E1.1	Noise Monitoring and Compliance Reporting The Licensee must undertake noise monitoring: (a) the noise monitoring must be undertaken within the first 6 months of commencement of operations: (b) the noise monitoring must verify the assumptions and noise limits as outlined in the Port Botany Container Terminal Expansion Noise Assessment (2003), part of the Environmental Impact Statement submitted to the Department of Planning and Infrastructure in accordance with the Environmental Planning and Assessment Act 1979 for the approved container terminal development, and Conditions L3.1 and L3.2 of this licence.	The first Noise Monitoring and Compliance Report was overdue by around 5 months. In an email dated 16 May 2014, SICTL requested a 4 week extension of time from the EPA to complete the report. Further delays occurred due to protracted consultation with the noise monitoring consultants and EPA on the merit of using noise modelling calculations alongside noise monitoring to produce better quality data, and the increase in Operations during this initial period. Marshall Day Acoustics completed the Noise Monitoring in September and October 2014, and the report was finalised on 4 February 2015.	Non-Compliant



No.	Details of Licence Requirement	Evidence	Assessment
E1.2	<p>Noise Monitoring and Compliance Reporting</p> <p>Every 6 months, the Licensee must undertake a periodic noise monitoring program consisting of attended and unattended monitoring and provide a report within one month after completion of monitoring to the EPA's Manager, Sydney Industry at PO Box 668 Parramatta NSW 2124 containing the following information:</p> <ul style="list-style-type: none"> f) unattended monitoring data for a continuous period of no less than 2 weeks; g) attended monitoring data during the period outlined in subsection (a); h) monitoring data from a minimum of 3 locations; i) an assessment of the noise levels against Condition L3 including a trend analysis; j) details of any feasible and reasonable noise mitigation measures that have been, or are proposed to be implemented to further reduce noise levels below the limits prescribed in this licence. 	<p>Following from the initial Operational Noise Monitoring and Compliance Report (19 October 2014), the next periodic noise monitoring assessment was due to be completed by 19 April 2015.</p> <p>Marshall Day Acoustics completed the Noise Monitoring on 2 August 2015, and the report was finalised on 23 October 2015.</p> <p>The date of the August 2015 monitoring reports is non-compliant to the requirement for periods of 6 months under the Licence conditions.</p> <p>SICTL has subsequently met with the EPA on 1 December 2015 to discuss improvements in this area. The following Noise Monitoring and Compliance Reporting due in January 2016 was completed 30 January 2016 and finalised 22 February 2016. (compliant)</p> <p>SICTL have obtained approval from the Unit Head – Sydney Industry – Environment Protection Authority – in a letter dated 11 July 2014 relating to proposed methodology for conducting noise measurements and modelling by SICTL. The Noise Monitoring reports have been uploaded to the SICTL website at:</p> <p>http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p>	<p>Non-Compliant</p>



No.	Details of Licence Requirement	Evidence	Assessment
E2.1	<p>Water Quality Monitoring and Reporting</p> <p>During the first 3 months of operations and every 6 months thereafter, the Licensee must undertake water quality monitoring during 3 separate rain events (where possible) and provide a report to the EPA's Manager, Sydney Industry at PO Box 668 Parramatta NSW 2124, within 1 month after the final monitoring event, containing the following information:</p> <ul style="list-style-type: none">d) stormwater discharge locations sampled (at least 3) which must be representative of terminal discharges to surrounding waters;e) sampling and analysis at the inlet and outlet of the separator units of the following pollutants: oil and grease, pH, total suspended solids and heavy metals; andf) evaluate the efficiency of both the Stormceptor and Aquaceptor Units.	<p>The initial Water Quality Monitoring Report contained sampling results from December 2013 and February 2014 over 3 separate rain events (Batch 1, 2 and 3). This report was published on 24 April 2014 and has been uploaded to the SICTL website: http://www.hutchisonports.com.au/Sydney-Monitoring-Reporting</p> <p>SICTL has not undertaken the 6 monthly water quality monitoring in compliance with the Licence conditions. The next water sampling was conducted on:</p> <ul style="list-style-type: none">• September 2014 (Batch 4)• June 2015 (Batch 5) <p>SICTL has met with the EPA on 1 December 2015 to discuss improvements in this area. Subsequent correspondence between SICTL and EPA in May 2016 outline SICTL's plans to ensure commitment and compliance to this Licence condition. The Water Quality Monitoring Report is anticipated to be finalised in July 2016.</p>	<p>Non-Compliant</p>



10 Management of Key Performance Areas

Assessment of the KPA's are for this reporting period: 1 September 2014 to 31 August 2015.

The number of TEU in this reporting period was: 207,006

Key Performance Areas	Key Performance Indicators	KPI Goals	Results
Air Quality	Dust and odour complaints, expressed as the number of community complaints per 100,000 TEU	Zero per 100,000 TEU	0
Aviation Operational Impacts	Airport-related complaints including light-spill, radar interference; expressed as the number of aviation complaints per 100,000 TEU	Zero per 100,000 TEU	0
	The number of times problem birds need to be actively managed at the SICTL terminal, expressed as the number of bird hazard management events per 100,000 TEU	Zero per 100,000 TEU	0
Noise and Complaints	Noise disturbance, expressed as the number of community complaints or exceedances of the noise limits specified in Development Consent Condition C 2.6 during monitoring per 100,000 TEU Note: The noise limits specified in condition C 2.6 of the Development Consent are in section 3.2 of the Noise Management Sub-Plan.	Zero per 100,000 TEU	1.45 / 100,000 TEU There were 3 community complaints relating to Noise received in this reporting period
Operational traffic	Traffic noise disturbance and traffic impacts such as congestion or trucks parking in residential streets, expressed as the number of traffic-related community complaints per 100,000 TEU	Zero per 100,000 TEU	0
Water Quality	Number of times the Pollutant Concentration Limit is exceeded, expressed as pollution events per 100,000 TEU	Zero per 100,000 TEU	0
Dangerous Goods and Hazardous Substances Cargo Management	Number of liquid spills or gas leaks during the handling of dangerous goods and hazardous substances, expressed as the number of incidents per 100,000 TEU of Dangerous Goods and Hazardous Substances cargo handled	Zero per 100,000 TEU	0
	Number of exceedances of the DG throughput limits specified in Development Consent Condition C 2.17 per 100,000 TEU of Dangerous Goods and Hazardous Substances cargo handled (Note: The DG throughput limits are those specified in tables 2 and 3 of the Handling of Dangerous Goods and Hazardous Substances Sub-Plan)	Zero per 100,000 TEU	1.45 / 100,000 TEU There were 3 exceedances of the DG throughput limits during this reporting period.



Key Performance Areas	Key Performance Indicators	KPI Goals	Results
Waste Generation	Amount of solid waste generated and the amount of waste recycled expressed as cubic metres of solid waste generated per TEU* and cubic metres of solid waste recycled per TEU*	TBA	Total Solid waste: 26.334 TN or 10.93m ³ 0.00005m ³ /TEU Solid waste recycled: 8.361 TN or 3.47m ³ 0.00002 m ³ /TEU
	Amount of liquid waste generated and the amount of liquid waste recycled expressed as litres of liquid waste generated per TEU* and litres of liquid waste recycled per TEU*	TBA	Total Liquid waste: 1 Lt 0.000005 Lt/TEU Liquid waste not recycled (SICTL anticipates that recycling of liquid waste will occur at the next phase of Operations when the canteen grease/oil trap is in use)
	The amount of potable water used per TEU, expressed in kilolitres per TEU*	TBA	Total water used = 7,733kL 0.04kL / TEU (Phase2 construction during 2014 contributed to the water usage – for dust mitigation treatment of unsurfaced ground)
Native and feral animal management	The number of shorebird management events per 100,000 TEU	Zero per 100,000 TEU	0
	The number of feral animal management events per 100,000 TEU	Zero per 100,000 TEU	0
Energy	Fuel consumption expressed in litres per TEU*	TBA	Total fuel = 696,391 lt 3.36 lt / TEU
	Electricity Consumption, expressed in kilowatt hours per TEU*	TBA	Total electricity consumption = 6,792,448 KWh 32.8 KWH / TEU
	Carbon emissions, expressed in kilograms of CO2 emitted per TEU*	TBA	Total carbon emissions = 7,528,337kgCO ₂ -e 36kgCO ₂ -e / TEU

KPIs marked with an asterisk * denote annual KPI goals set once operational data becomes available. HPA anticipates at least 12 months of operational data will be necessary to establish trends and quantify these goals (refer to relevant Sub-Plans for details).



11 Dangerous Goods Analysis

Reporting Period: 1 September 2014 to 30 August 2015

EPA Licence #20322	Limit:	Average over the reporting period:
Chemical Storage	5,000kL per day	144.5kL per day

DG Class	Description	Representative Material	Unit Size and Number of Movements						Finding
			NEQ < 1 tonne		NEQ 2 tonnes		NEQ 12 tonnes		
			Limit	Actual	Limit	Actual	Limit	Actual	
1	Explosives	TNT	screened out	N/A	83	4	63	4	Compliant
			NEQ <=0.5 tonne		NEQ 0.5 tonnes		NEQ 20 tonnes		
			Limit	Actual	Limit	Actual	Limit	Actual	
2.1	Flammable Gases	Propane	screened out	N/A	screened out	N/A	111	90	Compliant
2.2	Non-flammable Gases		screened out	N/A	screened out	N/A	screened out	N/A	N/A
2.3	Toxic Gases	Chlorine (1017)	screened out	N/A	0	0	0	0	Compliant
		Sulphur Dioxide (1079)	screened out	N/A	12	0	0	0	Compliant
		Ammonia (1005)	screened out	N/A	105	4	0	4	Non-Compliant
		Methyl Bromide (1062)	40	1	0	2	0	13	Non-Compliant
3	Flammable Liquids	Acrylonitrile	screened out	N/A	screened out	N/A	screened out	N/A	N/A
4.1	Flammable Solids	As per Class 3	screened out	N/A	screened out	N/A	screened out	N/A	N/A
4.2	Spontaneously Combustible		screened out	N/A	screened out	N/A	screened out	N/A	N/A
4.3	Dangerous When Wet	As per Class 3	screened out	N/A	screened out	N/A	screened out	N/A	N/A
			NEQ <=0.5 tonne		NEQ >0.5 tonnes				
5.1	Oxidising Materials	Ammonium Nitrate	screened out	N/A	3056	248			
			NEQ <=0.5 tonne		NEQ 0.5 tonnes		NEQ 20 tonnes		
			Limit	Actual	Limit	Actual	Limit	Actual	
5.2	Organic Peroxides		screened out	N/A	screened out	N/A	screened out	N/A	N/A
6.1	Toxic Materials		screened out	N/A	screened out	N/A	screened out	N/A	N/A
7	Radioactive Materials		Please refer to qualitative analysis						Compliant
8	Corrosive Materials	Hydrogen Fluoride (1052)	screened out	N/A	11	0	23	0	Compliant
9	Miscellaneous Materials		screened out	N/A	screened out	N/A	screened out	N/A	N/A