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INDEPENDENT ENVIRONMENTAL AUDIT REPORT

Site B4A, 37 Friendship Road, Port Botany, NSW 2036

Vopak Terminals Australia Pty Ltd 3 May 2022 21292 R1



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This report was prepared in accordance with the scope of services set out in the contract between Geosyntec Consultants Pty Ltd (ABN 23 154 745 525) and the client.

Geosyntec Consultants Pty Ltd ABN 23 154 745 525 www.geosyntec.com.au

Executive Summary

Geosyntec Consultants Pty Ltd (Geosyntec) was engaged by Vopak Terminals Australia Pty Ltd (Site B) (Vopak) to conduct an Independent Environmental Audit (IEA) of the site located on a portion of 37 Friendship Road, Port Botany ('the site'), which is also referred to as Site B4, a portion of the larger Site B storage terminal.

The boundary of the site covered by this IEA is provided in Appendix A, is legally identified as Lot 20 DP1272410 (formerly Lot 201 in DP1210638), and occupies an area of 2.479ha.

This audit is the first IEA of the construction and operational phases for the project. The purpose of the IEA is to provide an independent and objective assessment of the environmental performance and compliance status of the construction and operational phases of the approved development.

The approved State Significant Development (SSD 7000) is for the construction and operation of a bulk liquids storage facility with a maximum nominal capacity of 200 ML and associated infrastructure. It is noted that the Audit only applies for Site B4A as Site B4B, which is also included in this SSD, is not yet completed.

The overall objective of the Audit is to confirm compliance with Conditions C11 and C12 of the NSW Department of Planning, Industry and Environment (DPIE, now Department of Planning & Environment (DP&E)) State Significant Development Approval (SSD 7000) ('SSD Approval') issued 23 November 2016.

The IEA was conducted in accordance with the NSW Government (May 2020) Independent Audit Post Approval Requirements. The site inspection was conducted on 29 March 2022.

A total of 54 items were assessed as part of SSD consent conditions. A summary of the findings is provided as follows:

- Number of compliances = 39 items
- Number of non-compliances = 9 items
- Number of not-triggered = 6 items

A total of 63 items were assessed in reviewing the implementation and compliance with the Site environmental protection licence (EPL 6007). A summary of the findings is provided as follows:

- Number of compliances = 30 items
- Number of non-compliances = 1 item
- Number of not-triggered = 32 items

In addition, assessment of 64 items with regard to the implementation and compliance with the Site operational environmental management plan was conducted. A summary of the findings is provided as follows:

- Number of compliances = 48 items
- Number of non-compliances = 0 items
- Number of not-triggered = 16 items

An assessment of 14 items covered under Appendix B of the OEMP was also conducted, which provides detailed mitigation measures. A summary of the findings is provided as follows:

- Number of compliances = 13 items
- Number of non-compliances = 0 items



• Number of not-triggered = 1 item

Given that construction of Site B4A has been completed at the time of the Audit, qualitative assessment of compliance of the CEMP was conducted and discussed in the IEA report. Available information indicated that the CEMP was largely complied with, however, minimal evidence has been provided to confirm this observation. This has also been noted during review of the SSD conditions.

A discussion of IEA findings is presented in this document. The Audit also provides recommendations on opportunities for improvement.



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Glossary

Term	Description
Audit	Systematic, independent and documented process for obtaining objective evidence and evaluating it objectively to determine the extent to which the audit criteria are fulfilled (ISO 19011:2018). For the purpose of this report, Audit refers to an Independent Environmental Audit in accordance with the NSW Government (May 2020) Independent Audit Post Approval Requirements
Audit criteria	Set of requirements used as a reference against which objective evidence is compared.
Audit evidence	Records, statements of fact or other information which are relevant to the audit criteria and verifiable.
Audit findings	Results of the evaluation of the collected audit evidence against audit criteria.
Audit conclusion	Outcome of an Audit after consideration of the Audit objectives and all audit findings.
Auditee	Organisation being audited.
Audit Program	Audit Schedule and Audit Table as defined in NSW Government (June 2020) prepared by Geosyntec prior to the commencement of the Audit.
Auditor	Person(s) who conduct(s) the Audit, as defined in this report. Lead Auditor and Auditor in Training
Audit Team	One or more persons conducting the Audit, supported if needed by technical experts.
Authorised Reporting Officer	A director, executive, employee or office of the proponent who is authorised by the proponent to submit formal reporting on the proponent's behalf.
Competence	Ability to apply knowledge and skills to achieve intended results.
Compliant	The Auditor has obtained sufficient evidence to demonstrate that the specific item being audited has been satisfied to the objective of the Audit.
CSSI	Critical State Significant Infrastructure
DoEE	The Commonwealth Department of the Environment and Energy administering the EPBC Act, and includes the Minister for the DoEE
DP&E	NSW Department of Planning and Environment (previously DPIE)
DPIE	NSW Department of Planning, Industry and Environment
EIS	Environmental Impact Statement
Environmental Representative (ER)	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of Construction, who will be the principal point of advice in relation to all questions and complaints concerning environmental performance.
EP&A Act	NSW Environmental Planning and Assessment Act 1979
EPBC Act	Commonwealth Environment Protection and Biodiversity Conservation Act 1999
EPL	NSW Environment Protection Licence under the Protection of the Environment Operations Act 1997
Federal CoA	Federal DoEE Condition of Approval
Incident	An occurrence or set of circumstances that causes, or threatens to cause material harm and which may or may not be or cause a non-compliance.
Minister	Minister of DP&E or delegate.
NSW CoA	NSW DP&E Condition of Approval
Non-compliant	The Auditor has not obtained sufficient evidence to demonstrate that the specific item being audited has been satisfied to the objective of the Audit.
Not triggered	The specific item has not been activated at the time of the Audit and therefore, the Audit was not completed for the item.
Planning Secretary	The Planning secretary under the EP&A Act or nominee.



Term	Description	
PoEO Act	NSW Protection of the Environment Operations Act 1997	
Post approval document	A document required by conditions of consent, including Environmental Management Plans and Sub-plans.	
Predicted impact	Predicted impacts described in the Environmental Impact Assessment documents that comprise the approved project (if available).	
Project	As per definition in Section 1	
Proponent	The person or entity that is referred to as the proponent in an approval or the applicant in a consent or any other person carrying out any part of the development to which the approval or consent applies.	
Risk	Effect of uncertainty.	
Site	As per definition in Section 1	
State significant projects	 Means any of the following in accordance with the EP&A Act: State significant development projects State significant infrastructure projects, including critical State significant infrastructure projects Transitional Part 3A projects 	
	 Part 4 projects for which the Minister is the consent authority 	



Introduction 1

Geosyntec Consultants Pty Ltd (Geosyntec) was engaged by Vopak Terminals Australia Pty Ltd (Vopak) to conduct an Independent Environmental Audit (IEA) of the development site, located on the Vopak Terminals (Site B4a), located at 37 Friendship Road, Port Botany, NSW ('the site').

The boundary of the site covered by this IEA is provided in Appendix A, and occupies an area of 2.479ha.

1.1 Background

The development site is located within the 37 Friendship Road, Port Botany, NSW 2036. The site is part of the larger Vopak Terminals, which comprises bulk liquids storage facility and associated infrastructure within Lot 20 DP1272410 (formerly Lot 201 in DP1210638). The Audit Site is located within the area known as Site B4. The B4 development has been conducted in two stages:

- Stage 1 B4A involves the provision of three fixed roof storage tanks of total 105,000 m³ for diesel (or other combustibles) storage. This comprises the current Audit Site.
- Stage 2 B4B involves the provision of four floating roof mixed product storage tanks of total 91,000 m³, initially for gasoline storage. This part of the site is not yet completed and is not included within the Audit Site.

Two other sites are located within the terminal that are outside the Audit Site boundary, which include:

- Site B (B1, B2 and B3) Gate B47, 20 Friendship Road, Port Botany •
- Site B5 (Bitumen Terminal) B33, 49 Friendship Road, Port Botany

It is understood that all the above are located on land leased from NSW Ports.

1.2 Audit Team

The Audit team comprised the following Geosyntec personnel:

Table 1.1. Audit Team

Name	Role	
Peter Moore	Lead Environmental Auditor	
	Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC41043)	
	• BE (Civil)	
	Chartered Professional Engineer CP Eng	
Dr Cheryl Halim	Auditor /Auditor Technical Specialist	
	• Exemplar Global AU (ISO 19011:2018) (No. 11280933-7383767)	
	• BE (Chemical)	
	PhD (Chemical Engineering)	
Diana Turner	Assistant Auditor	
	BSc (Environmental, Soil Science Major)	
	BSc (Hons) (Environmental, Soil & Microbiological Sciences)	
Edward Munnings	Assistant Auditor	
	Bachelor of Environmental Science & Management	



The Audit Team Declaration is provided in Appendix B.

1.3 Purpose and Objective of Audit

The purpose of the IEA is to provide an independent and objective assessment of the environmental performance and compliance status of the construction and operational phases of the approved development.

This Audit is the first for the site which covers the construction and operational phases, noting that construction had been completed at the time of the engagement of the Auditor.

The overall objective of the Audit is to confirm compliance with Independent Environmental Audit consent Conditions C11 and C12 of SSD 7000 approval (23 November 2016) issued by the NSW Department of Planning, Industry and Environment (DPIE, now Department of Planning & Environment ((DP&E)), which state:

C11	 Within 2 years of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the Development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the Development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL(s) (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and (e) recommend measures or actions to improve the environmental performance of the Development, and/or any strategy, plan or program required under this consent. Note: This audit team must be led by a suitably qualified auditor, and include relevant experts in any other fields specified by the Secretary. 	
C12	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	

This Independent Environment Audit was conducted in accordance with the requirements of the NSW Government (May 2020) Independent Audit Post Approval Requirements (IAPAR).

Condition C11 requires the first Audit to be conducted within 2 years of the date of consent (23 November 2016). A letter from DP&E dated 19 November 2018 provides an approval for the delay of the commissioning of an Audit to within 12 months of commencing construction of the development. Based on the information provided by Vopak, construction of Site B4A commenced on 11 March 2020. This Audit was conducted outside the agreed timeframe.

1.4 Audit Scope

1.4.1 Audit Scope (Physical and Temporal Boundaries)

The physical and temporal boundaries of the current IEA are as follows:



- Physical boundary: The site is 23,500m² and located within Lot 20 DP1272410 (formerly Lot 201 in DP1210638). The boundary of this Audit is shown in the site plan included in Appendix A. The site is currently an operational facility. The Audit also included observations of the general surrounding area.
- The temporal boundary of the audit is for the duration of the construction and operational phases. It is noted that construction had been completed at the time of commencement of the Audit. Based on the advice provided by DP&E in an email dated 16 March 2022, given that no audit was conducted during the construction phase, the current audit must include the construction phase as well.

1.4.2 Audit Criteria (Audit Works)

The Audit criteria are identified by the conditions of consent in SSD 7000 and the requirements outlined in the NSW Government (May 2020) Independent Audit Post Approval Requirements.

The Audit Table (Appendix F) presents the requirements to be evaluated during the Audit including:

- An assessment of compliance with the Conditions of Consent and other relevant approvals and licences
- An assessment of environmental performance during the construction and the operation of the site, including:
 - Assessment of actual impacts compared to predicted impacts documented in the Environmental Impact Statement (EIS) and Return to Submission (RTS) documents.
 - Assessment of any incidents, non-compliances and complaints that have occurred on the project.
 - Assessment of any feedback received by DP&E, other agencies and stakeholders (as appropriate)
 - Assessment of performance of the development having regard to agency policy and any particular environmental issues identified through consultation carried out when developing the Audit scope.
- Assessment of conditions of the environmental protection licence (EPL).
- A high-level assessment of the adequacy of the Project's construction environmental management plan (CEMP) and operational environmental management plan (OEMP), sub plans and their implementation.

1.5 Audit Period

This Audit comprises the initial IEA for the site and covers a period review of environmental performance from the commencement of construction (11 March 2020) and the time of the site inspection/audit (29 March 2022). Additional information provided prior to the issue of the Audit report (3 May 2022) was also taken into account.

1.6 Environmental Representative

Andrew Malanos from Vopak was the appointed Environmental Representative, who assisted Geosyntec during this Audit process.



2 Audit Methodology

2.1 Auditor Notification to DP&E

The proposed Environmental Audit team was notified to DP&E in a letter dated 24 January 2022, with an approval letter confirming the team received from DP&E dated 8 February 2022. Correspondence is attached in Appendix C.

2.2 Development of Audit Scope – Independent Audit Table

The Audit table (attached in Appendix F) provides the Audit scope, as listed in Section 1.4 of this report.

2.3 Site Audit Process

The Audit comprised:

- 1. Opening meeting
- 2. Compliance to Audit Program
- 3. Review of evidence of consultation with identified stakeholders
- 4. Closing meeting
- 5. Issue of Draft Independent Environment Audit report
- 6. Review of additional information (if any)
- 7. Finalisation of Independent Environment Audit report

2.3.1 Opening Meeting

The opening meeting was conducted onsite on 29 March 2022. The agenda for the meeting and the record of attendees is provided in Appendix D.

2.3.2 Sources of Information to Assess Compliance to Audit Program

Sources of information reviewed to assess compliance to the audit program included:

- Review of project records, documentation and reports.
- Interview with key construction project personnel (available during site inspection) and post site inspection follow up.
- Site walkover and inspection for implementation of environmental controls.
- Review of complaints registers for the project.

2.3.3 Closing Meeting

It was agreed that the closing meeting could be conducted via email correspondence from Geosyntec, which provided an overview of key findings and timing for the Audit Report. The closing meeting email provided preliminary findings of the Audit.

2.3.4 Issue of Independent Environment Audit Report

The Draft Independent Environmental Audit Report was issued on 28 April 2022.



2.3.5 Finalisation of Independent Environment Audit Report

The IEA report was finalised on 3 May 2022. Minor edits were incorporated into the Final Audit Report, associated with the following items:

- Items G29 and G54 These items were mistakenly listed as non-compliances in Section 3.4.1 although they had been considered as being compliant in the Audit Table prior to the issue of the Draft report.
- Item G97 This item was previously considered to be a non-compliance, as the Auditor was unable to contact the Complaints line, however the Auditor managed to contact the Complaints line prior to the issue of the Final report.

2.4 Interviews

Interviews with construction project personnel were conducted on 29 March 2022. The following personnel were interviewed:

- Andrew Malanos (Vopak Compliance Manager, Environmental Representative for this Audit)
- Michael Martin (Vopak SHECG Manager)
- Trent Martin (Vopak Operations Manager)
- Muslim Bhimani (Vopak Terminal Manager)
- Alan Chambers (Vopak Head of Engineering & Projects)

2.5 Site Inspection

The site inspection was conducted by Peter Moore and Cheryl Halim on 29 March 2022, accompanied by the Terminal Manager (Muslim Bhimani). The site inspection comprised a walkover of the construction footprint, including the perimeter of the site.

2.6 Consultation

Geosyntec conducted consultation with DP&E, Randwick City Council (Council), NSW Ports (Ports), and NSW Environment Protection Authority (EPA) via submission into the Project Portal or email. Evidence of consultation is provided in Appendix C.

The outcome of the consultation is provided in Section 3.8.

2.7 Compliance Status Descriptors

The findings of the Audit have been divided into the following categories:

Assessment	Criteria
Compliant	Sufficient verifiable evidence is available to demonstrate that all elements of the requirement have been met
Non-Compliant One or more specific elements of the conditions or requirements have not been n	
Not-Triggered A requirement has an activation of timing trigger that has not been met at the tir audit, therefore compliance is not relevant. Items not considered for Independent Environment Audit have also been recorded as "Non-Triggered."	

Table 2.1. Compliance Evaluation

- - - -



3 Audit Findings

3.1 Approvals and Documents Audited

The following documents were audited:

Table 3.1. Audited Documents

SSD Reference	Document Details	
Environmental Impact Statement (EIS)	AECOM (09 October 2015) Vopak Site B4 Project, State Significant Development – Environmental Impact Statement.	
SSD 7000 Development Consent	SSD 7000 dated 23 November 2016.	
B14 Operational Air Quality Management Plar	EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality n Management Plan.	
B18 Construction Traffic Management Plan	Vopak (2020) B4A Expansion Project Construction Traffic Management Plan Greenfield (CTMP).	
B27 Water Management Plan	Vopak (23 June 2021) Water Management Plan (WMP) Vopak Site B4A.	
C1 Construction Environmental Management Plan	Vopak (11 February 2020) B4A Expansion Project Construction Environmental Management Plan Greenfield.	
	It is noted that the subplans for the CEMP, with the exception of the CTMP, have not been provided.	
C4 Operational Environmental Management Plan	Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A.	

Other supporting documents reviewed are provided in the Audit Table in Appendix F.

3.2 Summary of Assessment of Compliance

3.2.1 Compliance to SSD Conditions

A total of 54 items were assessed as part of SSD consent conditions. A summary of the findings is provided as follows:

- Number of compliances = 39 items
- Number of non-compliances = 9 items
- Number of not-triggered = 6 items

3.2.2 Compliance to EPL

A total of 63 items were assessed in reviewing the implementation and compliance with the Site environmental protection licence (EPL 6007). A summary of the findings is provided as follows:

- Number of compliances = 30 items
- Number of non-compliances = 1 item
- Number of not-triggered = 32 items



3.2.3 Compliance to CEMP

Given that construction has been completed at the time of the Audit, qualitative assessment of compliance of the CEMP was conducted and discussed in the IEA report. Available information indicated that the CEMP was largely complied with, however, minimal evidence has been provided to confirm. This has also been noted during the review of the SSD conditions.

3.2.4 Compliance to OEMP

An assessment of 64 items with regard to the implementation and compliance with the Site operational environmental management plan was conducted. A summary of the findings is provided as follows:

- Number of compliances = 48 items
- Number of non-compliances = 0 items
- Number of not-triggered = 16 items

An assessment of 14 items covered under Appendix B of the OEMP was also conducted, which provides detailed mitigation measures. A summary of the findings is provided as follows:

- Number of compliances = 13 items
- Number of non-compliances = 0 item
- Number of not-triggered = 1 item

3.3 Agency Notices, Orders, Penalty Notices or Prosecutions During Audit Period

Vopak confirmed that no Agency notices, orders, penalty notices or prosecutions were received during the Audit period.

3.4 Discussion of Non-Compliances

3.4.1 Compliance to SSD Conditions

Details of the non-compliances to the SSD consent conditions identified are provided in Table 3.2.

Table 3.2. Non-Compliances to SSD Consent Conditions

Geosyntec ID	SSD Condition No.	Details of Non-Compliance	Recommendations
G15	Β4	 This item is considered to be non-compliant as: FRNSW approval on the Fire Safety Study has not been provided. While the Fire Hazard Assessment has been approved by the Secretary, the Secretary requested resubmission of an updated Fire Safety Study (FSS) no later than two months prior to the commencement of the commissioning of Stage B4A. Given that the FSS has not been resubmitted, this condition is considered to be non-compliant. 	 If not yet been obtained, approval from FRNSW is required for the Fire Safety Study. The Fire Safety Study (FSS) is resubmitted to meet the Secretary's request.



Geosyntec ID	SSD Condition No.	Details of Non-Compliance	Recommendations
G16	B5	This item is considered non-compliant as the Pre-Startup Compliance Report, and Status Report - Hazard Study Conditions of Consent (Sherpa, 29 October 2021) containing the Emergency Plan and Safety Management System was submitted to DP&E within 2 months of commissioning and approval was not obtained from the Secretary.	If not obtained, approval of the Emergency Plan and Safety Management Plan should be obtained from the Secretary.
G25	B14	This item is considered non-compliant due to the absence of the Secretary's approval of the Air Quality Management Plan (AQMP) and evidence of consultation with EPA.	If not yet obtained, approval from the Secretary on the AQMP should be obtained.
G27	B16	This item is considered non-compliant as there is no evidence provided to confirm item B16(a) and B16(b) on the design of the roads, driveways and parking has been received.	If not yet obtained, a certificate for compliance is obtained from a suitably qualified consultant.
G30	B19	This item is considered as non-compliant as record of work hours during the construction has not been provided. It is noted that based on the information provided by Vopak, there was no complaint received during construction regarding out of hours work.	None, as construction works had been completed at the site at the time of the Audit.
G31	B20	This item is considered as non-compliant as records of work hours during the construction work has not been provided. It is noted that based on the information provided by Vopak, there was no complaint during construction regarding out of hours work.	None, as construction works had been completed at the site at the time of the Audit.
G32	B21	This item is considered non-compliant as there is no evidence provided that vibration goals were achieved during construction.	None, as construction works had been completed at the site at the time of the Audit.
G45	C4	This item is considered to be non-compliant as approval from DP&E has not been provided on the OEMP. However, the Auditor notes that the OEMP was first lodged to DP&E on 2 July 2022 and Vopak has responded to DP&E comments so obtaining the approval is in progress.	Approval from Secretary is finalised.
G52	C11	This item is considered to be non-compliant as the Audit did not meet the required timing (11 March 2021). Effect of access for Auditors to the site due to Covid restrictions was noted.	Vopak to ensure that future audits meet the required Audit Schedule.

3.4.2 Compliance to EPL

Details of the non-compliance to the EPL conditions identified are provided in Table 3.2.



Geosyntec ID	EPL Condition No.	Details of Non-Compliance	Recommendations
G61	P1.3	This item is considered non-compliant as sampling has not been conducted, however it is noted that this monitoring point is currently inaccessible. The Auditor has sighted an email from NSW EPA acknowledging this issue on 8 October 2021, which recommended Vopak submit a licence variation to remove the need for monitoring.	As recommended by the NSW EPA, application to remove monitoring at this location from the EPL should be submitted.

Table 3.3. Non-Compliances to EPL Conditions

3.4.3 Compliance to CEMP

Compliance to the CEMP was verified through a high level review of environmental performance from photographs, videos and records of complaints and incidents and through interviews with the Vopak Head of Engineering and Projects and Compliance Manager. This is documented in Section 3.11 and relevant sections of Appendix F, as construction was complete at the time of the Audit.

Based on the available information, the Auditor considers that no obvious non-compliance identified was identified. As the construction had been completed the Auditor was unable to observe practices undertaken during the construction period or conduct detailed review of records and interview with the contractors. Consequently the Auditor is unable to provide confirm all compliances to the CEMP.

3.4.4 Compliance to OEMP

No non-compliance was identified on the implementation of the OEMP and subplans, including the mitigation measures included as Appendix B.

3.5 Assessment from Previous Audits

There was no previous Audit for the site.

3.6 CEMP, OEMP, Sub-plans and Post Approval Documents

The Auditor was only provided with the CEMP and CTMP (Construction Traffic Management Plan), with the remainder of the subplans for the CEMP not available. The Auditor is unable to form an opinion on the appropriateness of the documents, however, has sighted DP&E approval of these plans.

The Auditor considers that the OEMP and sub-plans were appropriate for the operational phase of the project to minimise environmental impacts.

3.7 Discussion of Other Matters

The Auditor does not consider that there are other matters that need to be reviewed or discussed, based on regulatory requirements and legislation or the development's past performance, other than those covered in this IEA.



3.8 Outcomes of Consultation with Relevant Agencies and/or Stakeholders

Prior to conducting the site audit, Geosyntec consulted with DP&E, Randwick City Council, NSW EPA and NSW Ports. Consultation correspondence and responses from the Agencies are provided in Appendix C. The consultation indicated:

- Randwick City Council provided feedback (15 March 2022) on items relating to local community concerns regarding operation of sites located in and around the Ports, regarding Air Quality, and Noise Emissions. Council requested that air quality and noise emissions be considered as part of the audit of the EPL.
- DP&E did not have any additional concerns which needed to be included in the First Audit, however noted that as no IEA was completed during the construction phase and requested that this IEA needs to cover both construction and operational phases.
- No response was received from NSW Ports.
- Ne response was received from EPA.

Stakeholder feedback and Geosyntec's assessment findings are presented in Table 3.4.



Table 3.4. Consultation with Stakeholders and Evaluation Findings

Agency	Feedback	Document Supplied by Vopak	Geosyntec's Assessment		
Council	Council correspondence dated 15 March 2022 stating that local community have often raised concerns regarding:				
		the - and - tten 0020, d: I of NW ort. ed. I ot ong m d ying ur ed at e at n h I he	 Interviews with Vopak indicated that the works described in this correspondence with Council is in relation to the Asphalt/Bitumen Plant, which is operational elsewhere within the Port facilities. This item is not considered to be applicable to the B4A operations (bulk fuel storage), and this was supported by observations made during the site walkover (no malodourous odours noted from the B4A facility). 		



Agency	Feedback	Document Supplied by Vopak	Geosyntec's Assessment
	hydrogen sulphide and mercaptans which are highly poisonous.		
	I find the Port response below attempting to lay the blame on offloading ships absolutely incredible, especially so because a couple of years ago there was a gas escape which affected several suburbs traced back to the plant in the photos. That plant is hundreds of metres away from the wharves."		
	 Noise Emissions particularly through the evening and night time periods creating a noise/sleep disturbance. 	-	 Information obtained during the site interview confirms that tasks that generate noise are only performed during day light hours.
			 No noise complaints were noted during review of the sites complaints register.



3.9 Complaints and Management of Complaints

Vopak provided a register (Enablon) which confirmed that no complaints have been registered during the current Audit period.

3.10 Incidents and Management of Incidents

The following incidents were recorded during construction and operations associated with the B4A site, based on the records provided by Vopak:

- 12/5/2020: Minor traffic incident within the site between a roller and an excavator. An investigation was carried out but the outcome was not provided to the Auditor.
- 16/6/2020: An open bag containing small pieces of non-friable asbestos containing material was encountered during a site walkover. The incident was communicated to the site supervisor and the bag was removed on 17 June 2020.
- 25/6/2020: A vehicle hit a star picket, with no damage to the vehicle or the star picket. The incident resulted in the driver being reinducted.
- 27/8/2020: A near miss where a spotter for a B4A crane was positioned ahead of crane when the crane was reversed. The relevant personnel was informed.
- 14/9/2020: Damage to a spoon drain was identified in Improvement Avenue during a site walkover. The incident was communicated to site personnel and the Project Manager. A toolbox talk was requested to communicate that point load and turning were not conducted on the spoon drains.
- 15/10/2020: A worker reported eye irritation whilst walking on the haul road. First aid was administered.
- 29/10/2020: A worker lost balance while walking on uneven bars below a barricading rope, which caused a cut to his knee. First aid was administered. The barricade was replaced with plastic chain and hook to restrict the access.
- 20/11/2020: Low voltage instrument conduit and cable damaged for FIP and CCTV cameras during drilling work, noting that non-destructive excavation was carried out and dial before you dig records and drawings were reviewed prior to the work commencing. The excavation work was suspended following the incident and the Site B foam and deluge system was temporarily isolated to prevent inadvertent operation of foam/deluge valves. An investigation was carried out but the outcome was not provided to the Auditor.
- 5/2/2021: A personnel felt discomfort in his eye following a gust of wind. First aid was administered and dust suppression was conducted.
- 8/3/2021: A worker was stacking some materials on new shelving inside the sea container when one of the shelves dislodged causing the items to fall down resulting in a scratch to the worker's nose. First aid was administered. An investigation was carried out but the outcome was not provided to the Auditor.
- 19/4/2021: Minor vehicle accident between two hired contractor vehicles transporting crew from worksite to parking area. An investigation was carried out but the outcome was not provided to the Auditor.
- 27/4/2021: Traffic incident between contractor vehicle and a private vehicle. An investigation was carried out but the outcome was not provided to the Auditor.



- 7/5/2021: Minor property damage occurred following an accident between two vehicles. An investigation was carried out but the outcome was not provided to the Auditor.
- 24/5/2021: Minor fence damage due to a vehicle hitting the fence (due to soft sand caused by rain). The owner of adjacent property whose fence was damaged was notified. An investigation was carried out but the outcome was not provided to the Auditor.
- 30/7/2021: Temporary site fence fell due to high winds. Fence was immediately reinstated.

The Auditor considers that the above incidents were not likely to cause material harm to the environment, which requires notification under Item C9 of the SSD consent. Where provided, the incidents were considered to have been appropriately dealt with. It is noted that in relation to this review, outcomes in relation to some of the incidents were not provided to the Auditor.

Review of the Enablon incident register indicated there was no incident identified during the operational phase.

3.11 Performance of Environmental Management Plans

The review of mitigation measures listed in the EIS and associated documents associated with the construction phase against actual impact is assessed in the Audit Table, Appendix F and is summarised in Table 3.5.

Environmental Aspect	Requirement	Auditor's Review of Implementation of Construction Environmental Management Plan	Auditor's Review of Implementation of Operation Management Plan
Management Plan	Construction Environmental Management Plan will be prepared for the construction phase of the Project. The CEMP will be prepared in consultation with DP&E and Vopak will undertake review and update to their existing OEMP in consultation with DP&E as required by the Project.	Vopak (11 February 2020) B4A Expansion Project Construction Environmental Management Plan, Greenfield ('the CEMP') was prepared. Approval by DP&E was sighted.	Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A, ('the OEMP') was prepared for the site. Evidence of consultation with DP&E was sighted, however final approval has not been obtained. Recommendation: Approval for OEMP is finalised to meet Condition
			C4 of SSD consent.
Hazards and Risks	The effectiveness of the safeguards assumed to be in place and accounted for in the QRA should be verified as part of the design process; Vopak undertake a review of emerging engineering measures (for example modification to tank top design) that may be able to be implemented to eliminate formation of large flammable clouds due to tank overfill scenarios; As part of the review of the emergency response plan (ERP) that will be required for the Project, Vopak with input from Australian Container Freight Services undertake a review of access/egress from the	Not relevant for the construction phase.	 The following documents have been prepared: Sherpa (2015) Preliminary Hazard Analysis, Site B, Stage 4 Development ("B4 Project"), Port Botany ("PHA"). Fitzroy Engineering (2020) Pressure Surge Study. Vopak (6 February 2020) Vopak B4A Expansion Project ("Project"), SSD 7000 - Surge Study to WorkSafe NSW. Sherpa (27 February 2020) Vopak B4A Expansion Project Port

Table 3.5. Environmental Impact Assessment

Environmental Aspect	Requirement	Auditor's Review of Implementation of Construction Environmental Management Plan	Auditor's Review of Implementation of Operation Management Plan
	Australian Container Freight Services site to determine if any additional emergency access or exit provisions are required in the event of an incident at the B4 site; and As part of the Final Hazard		Botany Condition of Consent Study Final Hazard Analysis. Sherpa (2020) Final Hazard Assessment Sherpa (29 October 2021) Technical Note
	Analysis (which will be prepared prior to operations commencing), checklists identifying the key assumptions and constraints in the QRA at the final design stage of the Project will be developed. These will be an update to the		Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Emergency Plan is completed.
	checklists prepared for Site B as part of the current Section 75W QRA, and will simplify the hazard analysis update requirements for future changes should they arise.		The Final Hazard Assessment have been approved by the Secretary Delegate on 24 June 2020, however the Secretary requested resubmission of an updated Fire Safety Stud (FSS) no later than two months prior to the commencement of the commissioning of Stage B4A Final approval of the FSS has not been sighted.
			The most recent hazard aud was completed on 9 July 2020. Hazard audits will be completed at the site every three years after the first. The next audit is scheduled for completion prior to 27 December 2022 for Site B and for B4A as per SSD700 condition B8.
			Several outstanding documents were identified during the Audit and were considered as non- compliances, as detailed in Table 3.2.
			Recommendations: Outstanding documents identified in Table 3.2 be finalised and/or submitted
Fraffic and Transport	• A Construction Traffic Management Plan will be prepared for the construction of the Project to manage construction traffic impacts. This will be incorporated into the Project CEMP;	 The following documents were prepared and sighted: Vopak (2020) B4A Expansion Project Construction Traffic Management Plan Greenfield (CTMP). 	• The Traffic Management Plan has been prepared and attached to the OEMP. The TMP provides the required elements listed in the EIS.
	 A Traffic Management Plan was prepared for the existing Site B Facility, in accordance with the Site B project approval, and was prepared in consultation with the DPIE. 	 NSW DPIE (2 March 2020) Vopak Bulk Liquids Facility - B4 (SSD 7000) Construction Environmental Management Plan - Stage 1 (B4A). NSW DPIE (10 February 2020) 	• Review of incident register indicated no incident relating to traffic and transport during the operational phase.
	This will be reviewed and	Vopak Bulk Liquids Facility - B4 (SSD 7000) Construction Traffic Management Plan -	 Based on the information provided, there was no complaint associated

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Environmental Aspect	Requirement	Auditor's Review of Implementation of Construction Environmental Management Plan	Auditor's Review of Implementation of Operation Management Plan
	updated to include the Project; Measures identified to manage potential traffic impacts include:	Stage 1 (B4A) stating that a separate CTMP is required if work is required on Friendship Road/Simblist Road intersection.	with traffic and transport during operational phase.
Air Quality	 An induction process for drivers; Entry and exit conditions and requirements; Site traffic movements; and Approved operational access and egress routes. 	 Road safety measures detailed in the CEMP met the requirements stated in the EIS. Based on the review of limited photographic and video records provided by Vopak during construction, there did not appear to be traffic issues during construction. Review of the incident register indicated some minor traffic accidents, which were investigated. However, the outcomes of investigations were not provided. It is understood that the Vopak Enablon system requires closing out of each incident. Based on the information provided, there was no complaint associated with traffic during construction. 	
Air Quality	 A Construction Air Quality Management Plan will be prepared for the construction of the Project to manage construction air quality impacts (notably dust). This will be incorporated into the Project CEMP. The existing OEMP currently in place for the operating Site B Facility will be reviewed and updated to ensure all reasonable and feasible air quality management measures have been incorporated into the operation of the Project. All vehicles and plant/equipment should be fitted with appropriate emission control equipment and be serviced and maintained in accordance with the manufacturers' specifications. Smoke from vehicles/plant should not be visible for more than ten seconds; Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading; 	 A Dust/Air Control Plan was included within the CEMP. Approval by DP&E was sighted. Review of the register indicated one minor incident relating to dust during windy weather. Dust suppression was immediately implemented. Based on the information provided, there was no complaint associated with air quality during construction. 	 The EMM (2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan has been prepared and attached to the OEMP. The AQMP provides the required elements listed in the EIS. The following was observed during site visit: The following was observed during site visit: The Auditor did not observe any unacceptable dust during site visit. No vehicle was observed entering or leaving the site at the time of Audit. The site is mostly paved with hardstand. Review of the register indicated no incidents relating to air quality during operational phase. Based on the information provided, there was no complaint associated with air quality during the operational phase.

Auditor's Review of

Environmental Aspect	Requirement	Auditor's Review of Implementation of Construction Environmental Management Plan	Auditor's Review of Implementation of Operation Management Plan
	 Hard surfaces or paving should be used where possible, as unpaved routes can account for a significant proportion of fugitive dust emissions, particularly during dry/windy conditions. Routes should be inspected regularly and repaired when necessary, and roads should be swept and watered as required to limit dirt/dust build up and potential dust generation during windy conditions; 		
	 Any areas on site that are not covered with hard surfaces should be vegetated wherever possible to minimise wind erosion and associated dust generation; 		
	 All vehicles should be switched off when not in use for extended periods; 		
	 Water carts and/or road sweeping will be used to minimise dust generation. The frequency of these management measures will be increased during dry windy conditions; 		
	 Stockpiles where hazardous material has been encountered will be wetted and covered; 		
	 Active excavation area works will be wetted down with hoses; and 		
	 Housekeeping will be maintained to keep exposed areas to a minimum. 		
Noise and Vibration	 A Construction Noise Management Plan will be prepared for the construction of the Project to manage construction noise impacts. This will be incorporated into the Project CEMP; and The existing OEMP currently 	 A Noise and Vibration Management Plan was included within the CEMP. Approval by DP&E was sighted. Review of incident register indicated that there was no incident relating to noise and vibration. 	 The AQMP has been updated to include the activities for site B4A. The Auditor did not observe any unacceptable noise during site visit.
	in place for the operating Site B Facility will be reviewed and updated to ensure all reasonable and feasible noise and vibration management measures have	 Based on the information provided, there was no complaint associated with noise and vibration during construction. 	 Review of the register indicated no incident relating to noise during the operational phase. Based on the information provided, there was no complaint associated
Soil and Water	 been incorporated into the operation of the Project. A Sediment and Erosion 	A Soil and Sediment	 with noise during the operational phase. The Vopak (23 June
	Control Plan and a Soil and Water Management Plan will	Management Plan was included	2021) Water Management Plan

Auditor's Review of

Environmental

Requirement



Based on the information provided, there was no complaint associated with soil and water during the operational phase.

> (B1 is outside the boundary of the

Vopak provided slop

transfer register for

review. Cleanaway

Waste Data Form for slops was sighted.

Vopak confirmed that

all slops are returned

for processing

to Site B holding tanks

Audit).

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- The waste strategies developed Waste • A Waste Management Plan was • The AQMP has been for the existing Site B Facility included within the CEMP. updated to include the will be updated to incorporate Approval by DP&E was sighted. activities for site B4A. the Project. This can be Based on the information by • The Vopak engineer summarised as the application Vopak, no contaminated waste explained the of the waste required disposal during operational process, hierarchy where the following construction. indicating: will be employed, in order of All tanks were preference: bunded. • Avoidance – The generation Any stormwater of wastes from the Facility collected in the bund will be avoided where is processed in an oil possible: water separator and Reduce - Reduce resource settling tank and consumption, procure returned to the bunds materials with less packaging to evaporate. Water is and implement practices to only released if reduce waste; excess water accumulates in the • Reuse - Where feasible, materials will be reused bund onsite. However, due to the Fuel is transferred limited waste streams from Site B4A through generated onsite, reuse a pipeline to the B1-3 options may be limited; terminal area for storage in other tanks
 - Recycling Paper, cardboard, glass and plastics will be available for recycling. A bin will be placed adjacent to the office which will be collected by a waste management contractor on a regular basis; and
 - Disposal Disposal of wastes will be minimised where possible. Putrescibles wastes from the office will be sent to landfill, with other

21292 R1

Environmental

Aspect

Requirement

Project:

Project; and

Project.

· The existing soil and

and control measures

prepared for the Site B

existing OEMP, will be

Facility as detailed in the

updated to incorporate the

be prepared for the

The existing Water -

construction phase of the

stormwater/surface water

management and control

measures prepared for the

Site B Facility as detailed in

٠

A Photo provided on 11

was sediment fencing.

during construction.

during construction.

Based on the information provided, there was no complaint associated with soil and water

December 2020 indicated there

A review of register indicated no

incident relating to soil and water

the existing OEMP, will be

updated to incorporate the

groundwater management

Project. Both these plans will

form part of the CEMP for the

24



Environmental Aspect	Requirement	Auditor's Review of Implementation of Construction Environmental Management Plan	Auditor's Review of Implementation of Operation Management Plan
	wastes generally diverted for recycling; and Waste strategies will be met through the extension of the existing Site B Waste management and control measures as detailed in the existing OEMP for operations at Site B and as part of the CEMP for waste generated during construction.		
Visual Amenity	A Landscape Plan will be prepared to manage the visual amenity of the Project.	A Landscape Design was prepared by Ecological (7/5/2020).	A Landscape Design was prepared by Ecological (7/5/2020).
Greenhouse Gas	An Energy Efficiency Plan will be prepared as part of the existing Site B OEMP to include key elements of the Project and to describe how the plan will be applied across the entire terminal and a timeframe for this to occur.	N/A	 Energy Efficiency Plan is provided as Appendix J of OEMP.
			 Greenhouse gas emissions are reported monthly to Royal Vopak (trend analysis viewed YTD Feb2022).

3.12 Evidence Collected through Site Inspection

The evidence collected during the site inspection is recorded in Appendix E and F and included:

- Observations of site conditions during the operational phase.
- Observation of noise levels and the presence of noise mitigation measures.
- Observation of any contamination issues (such as dust, sediment on the road, sediment into stormwater system).
- Observation of appropriate sediment and dust control and mitigation measures.
- Observation of appropriate waste storage and disposal.
- Observation of chemical storage practises.
- Observation of the presence of groundwater monitoring wells.

3.13 Evidence to Support Compliance Assessment

Evidence provided during the Audit comprised the following:

- Documents relating to the construction phase
- Vopak's environmental inspection records
- Complaint records and evidence of investigation and follow up
- Site induction materials, induction records
- Permits and licenses
- Maintenance records of equipment
- · Photographic and video records for the construction phase



- Approvals and evidence of consultation
- Other documents required by the conditions of consent.

3.14 Environmental Management Improvement Opportunities

The Auditor's recommendations on improvement opportunities are provided in Section 4.

3.15 Key Strengths of the Project Environmental Management and Performance

During the audit process, Vopak demonstrated a high level of understanding of the requirements for environmental management with adequate record keeping.

The key strengths demonstrated in the project include:

- Vopak team has extensive experience on the process and environmental performance requirements, as well as a positive approach to environmental management.
- During the audit process, Vopak demonstrated a high level of understanding of the requirements for environmental management supported by availability of some records. Where potential environmental issues were identified and flagged during the site inspection, Vopak demonstrated positive behaviour in rectifying such issues and were open to discussions on suggested improvements.



4 Recommendations and Opportunities for Improvements

The Auditor makes the following recommendations to improve record keeping and/or work practices onsite:

- Strategies, plans and programs under the development consent must be reviewed within 3 months of submission of this IEA Report or any other items listed in consent condition C8.
- A copy of this IEA and Vopak's response must be uploaded to the public website following completion of this IEA.
- Many of the records required for Audit purposes have been stored in emails. It is recommended that information should be kept in a document controlled system (either as hardcopy or softcopy).
- Incident with potential of material harm to the environment will need to be reported to the Secretary within the timeframe provided in condition C9.
- All other recommendations made in the Audit Table (Appendix F) and Section 3.4 are implemented.



5 Limitations

This report has been prepared by Geosyntec Consultants Pty Ltd ("Geosyntec") for use by the Client who commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the Client and other parties. The findings of this report are based on the scope of work outlined in Section 1. The report has been prepared specifically for the Client for the purposes of the commission, and use by any explicitly nominated third party in the agreement between Geosyntec and the Client. No warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party (other than where specifically nominated in an agreement with the Client).

This report relates to only this project and all results, conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be reproduced without prior approval by the Client, or amended in any way without prior written approval by Geosyntec.

Geosyntec's assessment was limited strictly to identifying environmental conditions associated with the subject property area as identified in the scope of work and does not include evaluation of any other issues.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigation.

This report does not comment on any regulatory obligations based on the findings. This report relates only to the objectives stated and does not relate to any other work conducted for the Client.

The absence of any identified hazardous or toxic materials on the site should not be interpreted as a guarantee that such materials do not exist on the site.

All conclusions regarding the site are the professional opinions of the Geosyntec personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, Geosyntec has not independently verified and assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Geosyntec, or developments resulting from situations outside the scope of this project.

Geosyntec is not engaged in environmental assessment and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes. The Client acknowledges that this report is for its exclusive use.



Appendix A Figures



Geosyntec Consultants



Appendix B Auditor Declaration

Independent Audit Declaration Form

Project Name	Independent Environmental Audit, Vopak Terminals (Sydney) Site B
Consent Number	SSD 7000
Description of Project	Operation of a bulk liquids storage facility
Project Address	37 Friendship Road, Port Botany
Proponent	Vopak Terminals Australia Pty Ltd
Title of Audit	Independent Environmental Audit of the Site B4A Vopak Terminal
Date	3 May 2022

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Post* Approval Requirements (Department 2020);
- the findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- · I have acted professionally, objectively and in an unbiased manner;
- I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child;
- neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Notes:

- a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Lead Auditor	Peter Moore
Signature	
Qualifications	 Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC41043)
	• BE (Civil)
	Chartered Professional Engineer CP Eng
Name of Auditor	Cheryl Halim
Signature	due upp

Qualifications • E	Exemplar Global AU (ISO 19011:2018) (No. 11280933-7383767)
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Geosyntec^D consultants

	BE (Chemical)
	PhD (Chemical Engineering)
Name of Assistant Auditor	Edward Munnings
Signature	E. No
Qualifications	Bachelor of Environmental Science & Management
Name of Assistant Auditor	Diana Turner
Signature	Plurap
Qualifications	BSc (Environmental, Soil Science Major)
	BSc (Hons) (Environmental, Soil & Microbiological Sciences)
Company	Geosyntec Consultants Pty Ltd
Company Address	189 Kent St Sydney NSW 2000



Appendix C Correspondence



Geosyntec Consultants Pty Ltd ABN 23 154 745 525 Suite 1, Level 9, 189 Kent St Sydney NSW 2000 www.geosyntec.com.au

engineers | scientists | innovators

21295 L1 DPIE Notification SSD7000 Vopak 37 Friendship Rd Botany 24Jan22

24 January 2022

Department of Planning, Industry and Environment

Via Project Portal

Dear Sir/Madam,

Re: Notification of Auditors, Independent Environmental Audit, Vopak Terminals (Sydney) Site B, 37 Friendship Road, Port Botany, NSW

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals Australia Pty Ltd (Site B) (Vopak) to conduct an Independent Environmental Audit project for 37 Friendship Road, Port Botany, NSW ('the site'). The site is listed as Lot 201 DP1210638.

The Independent Environmental Audit is conducted to meet Conditions C11 and C12 of SSD 7000 approval (23 November 2016):

C11	directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the Development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the Development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL(s) (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and (e) recommend measures or actions to improve the environmental performance of the Development, and/or any strategy, plan or program required under this consent. Note: This audit team must be led by a suitably qualified auditor, and include relevant experts in any other
	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the
C12	Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

The Independent Environmental Audit will be conducted in accordance with the NSW Government Independent Audit Post Approval May (June 2020) (IAPAR 2020).
The proposed audit team includes Peter Moore as Lead Auditor, assisted by Cheryl Halim, Diana Turner and/or Edward Munnings as Auditors. We have listed additional auditors than we normally would to prevent delays due to Covid-19 isolation. Qualifications are included as Attachment A to this letter and the completed declaration form in accordance with IAPAR 2020 is provided in Attachment B.

The lead environmental auditor and auditor/technical specialists have completed a significant number of environmental site assessments, environmental management, and site audits on similar sites as identified in Attachment A.

Should you have any queries or wish to discuss any points, please do not hesitate to contact the undersigned.

Yours sincerely,

Cheryl Halim Independent Environmental Auditor/ Exemplar Global AU (ISO 19011:2018) (No. 11280933-7383767) Geosyntec Consultants Pty Ltd

Attachments:

Attachment A – CVs Attachment B – Declaration

Peter Moore Independent Environmental Auditor/ Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC41043) Geosyntec Consultants Pty Ltd

Attachment A – CVs



engineers | scientists | innovators

Peter Moore B.Eng (Civil) Principal



QUALIFICATIONS

B.Eng. (Hons), Civil, University of New South Wales

CEnvP (Site Contamination Specialist)

Chartered Professional Engineer (CPEng) Engineers Australia

SPECIALTIES

Environmental Auditing

Project Management

Site Investigation

Risk Assessment of Contamination

Design and Implementation of Remediation Programs

Risk Assessments

Dangerous Goods Assessments

Site Validation

Environmental Management Plans

PROFESSIONAL SUMMARY

Peter Moore is a qualified engineer with a specialisation in dangerous goods and environmental fields. He has over 30 years' experience in a range of engineering, project management, dangerous goods and environmental assessment and remediation projects. Peter was formerly employed as a project manager in the oil industry and has in more recent times been involved in a wide variety of studies and works associated with contaminated sites and remediation, risk assessment, environmental management systems, environmental impact assessments, compliance and environmental auditing.

Areas of specialisation include auditing for site suitability, inspection of contaminated sites, Phase I environmental compliance & due diligence auditing, Phase II contaminated land and groundwater investigations and design and implementation of remediation systems.

Project work has been completed for a diverse range of sectors including Property Developers, Oil & Gas, Petrochemical, Manufacturing, Construction & Extractive as well as for the Public sector including local Councils, Department of Defence and NSW Government.

MEMBERSHIPS AND TRAINING

- Member Institution of Engineers Australia MIE (Aust.)
- Member Australian Land and Groundwater Association (ALGA)
- Certified Environmental Practitioner EIANZ
- Mergers & Acquisition Auditing, ERM
- USEPA 40hr Occupational Health & Safety Training for Contaminated Sites
- WorkCover OHS General Induction for Construction Work in NSW (White Card)
- Asbestos Awareness Training NSW

KEY PROJECT EXPERIENCE

Compliance Audits

Environmental Compliance Audit of Gold Mine Prior to Site Closure, Armidale, NSW – Peter managed a compliance audit of a gold mine located near Armidale, NSW. The compliance audit was the first stage of a plan to close the mine operations. Investigations included site inspections, hazardous materials review, operating licences, planning and operating approvals, environmental practices, reviewing internal supporting environmental documentation, liaising with local regulators, chemical storage, site contamination, groundwater conditions, surface water ponds, maintenance facilities, waste disposal and resource use.

Environmental Compliance Audit Mt Arthur Coal Mine, Singleton NSW – Peter audited a portion of the Mt Arthur Mine site, that was earmarked for closure and rehabilitation. The environmental compliance audit was required to be undertaken as part of due diligence requirements to satisfy the Local Council's original development consent conditions for this part of the mine.

Environmental Audits Vopak Terminals Botany NSW – Peter has conducted several environmental audits at two facilities operated by Vopak at Port Botany. This included the Bitumen plant and the Distribution Terminal. Peter has conducted these as a lead auditor or project director. Aspects assessed included operating



licences, environmental management systems, soil and groundwater contamination, storm water monitoring and discharges and air quality emissions and controls. In addition to this, Peter has also directed regular verification of storm water monitoring at the site to independently verify that discharges are meeting EPL requirements.

Multi-site Environmental Compliance Audits, Westrac NSW – Peter was part of a team that undertook a multisite environmental compliance audit for a mining heavy equipment retailer and repairer, Westrac as it expanded its operations (across NSW and ACT).

Compliance and Risk Ranking of ARTC Multi-Site Portfolio – This project primarily involved a review of reports of environmental assessments conducted at RailCorp sites managed by ARTC across NSW, comprising operational sites and other leased sites including residential, industrial and commercial land uses. A Contamination Risk Analysis Tool was developed to allocate a risk ranking to each site managed by the ARTC where an environmental investigation had been conducted. A database was also developed for ARTC to manage the outcomes of the risk ranking tool.

Compliance and Due Diligence Audit Quarrying and Construction Materials Processing Facilities NZ - Peter project managed due diligence and compliance environmental audits of quarrying and processing facilities on the South Island of NZ. The purpose of the investigation was to provide supporting documentation on the environmental status of five properties to a potential purchaser. Due diligence investigations included site inspections, hazardous materials review, operating licences, planning and operating approvals, environmental practices, reviewing internal supporting environmental documentation, liaising with local regulators, chemical storage, maintenance facilities, waste disposal, resource use and sustainability practices.

Planning and Environment

Project Director, EIA Land 134 Project, Department of Defence, **Shoalwater Bay, QLD –** Peter managed a project team which compiled an Environmental Impact Assessment (EIA) for the proposed introduction of a training monitoring system at the Department of Defence Shoalwater Bay Training Area near Rockhampton in Queensland.

Part 3A Requirements, Barangaroo Delivery Authority, Headland Park NSW – Peter was the project manager for the compilation of a soil and water quality management document required to fulfil the NSW Minister for Planning Part 3A conditions for the construction phase of Headland Park located at the northern end of the Barangaroo development site.

Statement of Environmental Effects (SEE) Commercial Development, Surry Hills, NSW – Peter prepared a Statement of Environmental Effects (SEE) to support a Development Application to Sydney City Council for a proposed change of usage of a commercial retail premises in Surry Hills. The development approval for the premises formerly related to usage of the premises for offices and the proposed use was for DVD rental. Environmental impacts that needed to be assessed included visual amenity, noise, operating hours and parking/deliveries.

EIA new Ordnance Loading Area (OLA), Defence, RAAF Williamtown, NSW – As Technical Director, Peter was part of a multidiscipline project team which was awarded a design and construct contract for a major facility upgrade at RAAF Base Williamtown NSW.

Retail Engineering BP Australia, NSW – Peter was formerly an engineering manager for BP in NSW. During that time, he was responsible for the upgrade and development of service station facilities across NSW. This included the generation of plans and documentation associated with developments, which required planning and building approvals. During his time in this role, approximately twenty new builds occurred which required applications to be submitted to various NSW Councils including Penrith, Liverpool, Campbelltown, Strathfield, Ryde and Hornsby.

Also during this time, Peter was the project manager for a major rebranding of the company which involved almost 300 sites across NSW Peters team submitted Development and Building Applications to all Council across both metropolitan and regional NSW for this rebranding program over a period lasting 3 years.



The Certified Environmental Practitioner Board hereby attests that

Peter Maare

having fulfilled all the requirements of the Board has been registered as a

Certified Environmental Practitioner Contaminated Land Specialist

with Registration Number

SO41043 on the date

29 January 2018

hairperson of the Board



CENVP - An Initiative of the Environment Institute of Australia and New Zealand.

consultants

Geosyntec[▶]

engineers | scientists | innovators

B.E., PhD. Principal Independent Environmental Auditor



QUALIFICATIONS

B.E. (Hons), Chemical Engineering, University of New South Wales

PhD, Chemical Engineering, University of New South Wales

Exemplar Global AU & TL (ISO 19011:2018) (Cert. No. 11280933-7383767)

SPECIALTIES

Site Investigations, Remediation and Validation

Project Management

Risk Assessment

Contaminated Land Site Audits

Independent Environmental Audits

Landfill, Waste

Environmental Management Plans

Due Diligence

Specialist Advice

PROFESSIONAL SUMMARY

Cheryl has over sixteen years' experience in environmental assessment, remediation and management and has conducted contaminated land site audits in New South Wales, Western Australia, Australian Capital Territory, and South Australia. Cheryl's postgraduate qualification in chemical engineering and waste provide specialist skills in assessing for environmental and waste compliance. As an Exemplar Global Auditor, Cheryl has conducted several independent environmental audits in accordance with NSW Government (2018 & 2020) Independent Environmental Audit Post Approval Requirements.

Cheryl has recently been involved in providing advice for WA Department of Water and Environmental Regulation and NSW Department of Health. Cheryl has conducted health risk assessments for a variety of projects including service stations, colliery, and for the NSW Department of Health.

MEMBERSHIPS AND TRAINING

- Asbestos Interest Group Committee, Australasian Land & Groundwater Association (ALGA)
- Principles of Risk Assessment and Management, South Australian Centre for Public Health, 2008
- ALGA A-Z Ground Gas Workshop, 2016
- Occupational Health & Safety (OHS) General Induction, WorkCover NSW, 2006
- 48 Hour OHS Training and 8 Hour Occupational Safety & Health Administration Refresher Training, Coffey Environments, 2007
- Track Safety Induction, Southern Cross Rail, 2006
- Electrical Awareness Training, Southern Cross Rail, 2006
- OHS Consultation, WorkCover NSW, 2005

KEY PROJECT EXPERIENCE

Independent Environmental Audits

UNSW Cliffbrook Stage 1 Heritage-Listed Building Refurbishment – Lead Auditor for the construction phase of the UNSW Cliffbrook Stage 1 development (required as part of SSD 8126).

Western Sydney University, Bankstown, NSW – Auditor for the construction of Western Sydney University (required as part of SSD 9831).

Iglu Redfern 2, Redfern, NSW – Auditor for the construction of Iglu Redfern 2 (required as part of SSD 9275).

Cranbrook School, Bellevue Hill, NSW – Lead Auditor and waste specialist for the construction of Cranbrook School (required as part of SSD 8812).

Sydney Zoo, Bungarribee, NSW – Auditor and waste specialist for the construction and operation of Sydney Zoo (required as part of SSD 7228).

Western Sydney University, Parramatta, NSW - Auditor for the construction of Western Sydney University (required as part of SSD 9670).



Audit

Audit assistant for over 100 statutory and non-statutory audits under the NSW CLM Act 1997 and other states. General scope of work included review of environmental assessment reports, environmental compliance during remediation, waste compliance, preparation of site audit reports.

The Shore School, North Sydney, NSW – Audit assistance on the redevelopment of the Shore School (required as part of SSD).

Meadowbank School Precinct – Audit assistance on the for proposed primary and high school precinct.

Alexandria Park Community School (APCS) – Audit assistance to confirm the site is suitable for proposed educational development (comprising childcare, primary, secondary school and community use).

Ferrovial York Joint Venture Warringah Road Expansion – Audit assistance for the Warringah Road expansion, which is required by state significant infrastructure (SSI) conditions.

Cumberland Council, Pemulwuy – Audit assistance for the proposed commercial/industrial development at Council land at Pemulwuy.

Thirdl Group, 31-41 William Street, Alexandria – Audit assistance for the development of a high density residential building with basement carpark.

Bathla Group, Schofields, NSW – Audit assistance on the proposed low density residential land subdivision at Schofields.

Stockland, Marsden Park, NSW – Audit assistance on the proposed low density residential land subdivision at Marsden Park.

Meriton, Lidcombe, NSW – Audit assistance on the proposed high density residential apartments in staged process.

EG Funds, Summer Hill, NSW – Audit assistance on the proposed high density residential apartments and open space landuses in staged process.

Endeavour Energy, Harris Park, NSW - Audit assistance on the proposed low density residential land.

Meriton Group, 330 Church Street, Parramatta, NSW – Audit assistance on the proposed open space landuse.

Thirdl Group & Milligan Group, 830-838 Elizabeth Street, Waterloo, NSW – Audit Assistance on the proposed high density residential property.

The ACT Government, Capital Metro Project, Canberra, ACT – Audit assistance on the proposed light rail route from Civic to Gungahlin.

Viva Energy Australia, Coles Express Service Station, 194 Pacific Highway – Audit assistance on the site audit of a Coles Express Service Station, where petroleum hydrocarbon impact has migrated offsite to an adjacent residential apartment.

Parklane Group, 63-85 Victoria Street, Beaconsfield, NSW – Audit assistance on the proposed residential development at Beaconsfield.

XR Property Developments, 146-156 Botany Road, Alexandria, NSW – Audit assistance on the proposed residential development at Alexandria. The site has been notified to the EPA due to the offsite migration of petroleum hydrocarbon.

Central Coast Automotive, Gosford, NSW – Audit assistance on a large parcel of land, comprising former service station, former vehicle maintenance, former carwash buildings.

Ceedive, Former Lithgow Pottery Estate, NSW – Audit assistance on a former pottery estate site at Lithgow.

Forbes City Council, Former Forbes Gasworks, NSW – Audit assistance on a former Forbes Gasworks.

Gunnedah Council, Gunnedah Airport, NSW – Audit assistance on a former pesticide spraying facility, Gunnedah Airport, Gunnedah.

PwC's Auditor Training

Certificate of Attainment

awarded to

Cheryl Halim

Becoming a Skilled Lead Auditor

Exemplar Global AU - Auditing Management Systems (ISO 19011:2018) Exemplar Global TL - Lead Audit Teams (ISO 19011:2018)



Certificate No: 11280933-7383767 Course End Date: 26 Mar 2021 Certificate Issue Date: 27 Mar 2021

Tom Barham Training Manager



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Diana Turner B.Sc. Senior Environmental Scientist

engineers | scientists | innovators



QUALIFICATIONS

B.Sc., Environmental, Soil Science Major, Australian Catholic University

B.Sc. (Hons), Environmental, Soil & Microbiological Sciences, Australian Catholic Univeristy

SPECIALTIES

Assessment of contaminated sites,

Remediation & validation

Environmental and human health risk assessments

Contaminated land due diligence reviews

Phase 1 & 2 site assessments

Environmental management systems review and preparation (ISO14001)

Environmental input for road upgrade

Acid sulfate soil assessments and management plans

PROFESSIONAL SUMMARY

Diana is a highly experienced Senior Environmental Scientist, who has worked within the contaminated land industry an environmental scientist since 2002. Her experience comes from wide ranging projects including site assessments, environmental audits and contaminated site management for clients across Australia. Her background in environmental legislation enables her to advise clients on regulatory issues and requirements. Diana's approach puts clients' needs first and she has outstanding relationship skills gained from successfully managing complex projects and diverse stakeholder groups. A passionate problem solver, she looks beyond the task at hand to exceed client expectations.

Diana has completed numerous projects involving assessment and remediation of contaminated land throughout Australia and has conducted various compliance and environmental audits. The projects completed include large industrial sites being redeveloped for residential purposes, industrial subdivisions, industrial investigation and remediation, infrastructure developments, landfill remediation and rehabilitation, and agricultural property redevelopments. Diana's responsibilities in these projects included project management, client liaison, analysis and interpretation of data, and reporting.

Diana also has experience auditing under the International Organization for Standardization (ISO). Specifically, Diana is trained in ISO14001 compliance, and has completed numerous audits against this standard for pharmaceutical and industrial clients throughout Australia and NZ.

Diana has additionally spent time as an environment and health and safety (EHS) advisor for a large consulting company. This role reported directly to the company Director and involved assessment of compliance of the company's EHS performance for both office and field based activities. Key to this role was the maintenance of the company's Environmental Management System and supporting the company through ISO certification audits.

MEMBERSHIPS AND TRAINING

- RABQSA ISO14001 Independent Environmental Auditor Training
- Certified Environmental Practitioner (CEnvP No. 193), November 2007
- 24hr Occupational Health & Safety Training for Contaminated Sites
- WorkCover OHS General Induction for Construction Work in NSW (White Card)
- Committee Member of NSW branch of Environment Institute of Australia and New Zealand
- Principles of Risk Assessment and Management, South Australian Centre for Public Health, 2008
- Occupational Health & Safety (OHS) General Induction, WorkCover NSW, 2001
- Track Safety Induction, 2005



KEY PROJECT EXPERIENCE

Environment Health and Safety Audits - Various, NSW, ACT, VIC, New Zealand

Assisted in numerous EHS audits within the Australasia – including compliance, due diligence, M&A, site assessments and development of audit protocols for a variety of clients, including:

- Pfizer pharmaceuticals
- Diona infrastructure / construction
- Kodak manufacturing
- Alcoa manufacturing
- GE real estate
- Brunswick Corporation (Aus/NZ) marine manufacturing
- Global Renewables manufacturing / waste processing

Auditing – Various NSW and ACT

As part of the Contaminated Land Management Act, assisting Auditor's in the preparation of review documents, site visits, risk assessments, and audit reports. This has included in excess of thirty completed audit sites in NSW and ACT.

Due Diligence Environmental Site Assessment - Various, Australia

Completion of numerous Phase I Environmental Site Assessments for a large number of private clients in the pre- or post- acquisition phase of site ownership. Phase I assessments have been conducted on various properties from offices to warehousing to large industrial operations throughout Sydney, NSW and Australia. Roles include site visits, meetings, site histories, permitting, research and reporting.

Contaminated Site Assessments – Various, NSW, QLD, WA, VIC

Project management, planning, on-site supervision of fieldwork, liaison with client and contractors, data analysis, review and reporting. Assessments have been conducted for government bodies, and private industry on a range of sites, from residential to large industrial. Investigations have included soil and groundwater studies, risk assessments, combined geotechnical studies, classification of materials for offsite disposal and acid sulphate soil assessments.

Remediation and Validation – Various, NSW, QLD, VIC

These projects include preparation of remediation action plans (RAPs), completed to address the site specific issues identified during the investigative stages of works. Upon completion of the RAPs, the remedial field works and validation were then completed in accordance with NSW DECC guidelines.



engineers | scientists | innovators



QUALIFICATIONS

Bachelor of Environmental Science & Management, University of Newcastle

SPECIALTIES

Site Investigation

Soil logging

Groundwater well installation

Groundwater Monitoring & Sample collection

Sediment and surface water monitoring

Landfill gas monitoring

Waste classification

PROFESSIONAL SUMMARY

Edward is an Environmental Scientist, with recent experience in contaminated land and groundwater assessment and remediation. He has contributed to a variety of projects, including preliminary & detailed site investigations, groundwater and landfill gas monitoring, separate phase recovery systems, waste classification and surface water monitoring. Always focussed on the client's objectives, Edward adopts a responsive and open-minded approach to problem solving. Edward has assisted in environmental site audits.

MEMBERSHIPS AND TRAINING

- Australasian Land and Groundwater Association (ALGA) member
- First Aid Certification
- SACL Safety Induction

KEY PROJECT EXPERIENCE

Site Audits

UNSW Cliffbrook Stage 1 Heritage-Listed Building Refurbishment – Support Auditor for the construction phase of the UNSW Cliffbrook Stage 1 development (required as part of SSD 8126).

Residential Development, Rosebery, NSW – Edward assisted in conducting a site audit for a residential development in Rosebery, including audit reporting and review of environmental reports.

Residential Development, Molonglo, ACT – Edward assisted in conducting a site audit for a residential development in Molonglo, including review of environmental reports and compilation of audit report appendices.

Industrial Redevelopment, Saint Marys, NSW – Edward assisted conducting a site audit for an industrial redevelopment in Saint Marys, including site inspections and compilation and interpretation of environmental monitoring data.

Environmental Management Plan Preparation

Construction Environmental Management Plan (CEMP), Bankstown, NSW – Edward prepared a CEMP for a large-scale commercial/industrial development in Bankstown.

Environmental management Plan (EMP), Villawood, NSW – Edward prepared and updated EMPs for soil and groundwater contamination at a site in Villawood, and conducted site inspections, interviews and monitoring to satisfy ongoing EMP compliance requirements.

Contaminated Site Assessments and Remediation

City of Sydney – Small Parks, NSW - Edward undertook the field sampling program for Preliminary Site Investigations with limited soil sampling, undertaken at five small parks and playgrounds in the City of Sydney Local Government Area. The purpose of these investigations was to identify and characterise potential contamination, and to draw conclusions regarding the suitability of the site for the proposed upgrade and continual use as public open space, and or make recommendations to enable such conclusions.

City of Sydney – The Crescent Parklands, Skate Park and Federal Park Annandale NSW – Edward was actively involved with the remediation, and validation of The Crescent Skate Park,



and Federal Park, Annandale. The project involved the assessment of the site through intrusive investigation work, with the goal being protection of the environment and human health during the completion of the remediation and redevelopment works, and provision of relevant information to enable safe ongoing management of the site. The remediation of site has recently been completed, and endorsed by a NSW EPA accredited Site Auditor.

Waste Classification Assessment, Centennial Park, NSW – Waste Classification Assessment involving sediment sampling from the existing ponds located at Centennial Park. Review of analytical data and reporting in accordance with NSW EPA (2014) Waste Classification guidelines.

Data Gap Investigation, Dulwich Hill, NSW – Data Gap Investigation involving delineation of soil contamination and additional groundwater investigation as part of a contamination assessment for a proposed high density residential development.

Detailed Site Investigation (DSI), Sydney Airport, NSW – Detailed Site Investigation involving soil logging, groundwater monitoring well installation and sample collection as part of a contamination assessment for a building extension.

Detailed Site Investigation (DSI), Hexham, NSW – Detailed Site Investigation involving soil investigation, groundwater monitoring well installation, sediment and surface water sampling as part of a contamination assessment for an industrial property in the Hexham area.

Phase Separated Hydrocarbon (PSH) Recovery and Monitoring, Camellia, NSW – Recovery and monitoring of groundwater contamination as a component of a remediation action plan for an industrial property.

Phase Separated Hydrocarbon (PSH) Recovery and Monitoring, RAAF Base Richmond, NSW – periodic gauging and systems evaluation and reporting of findings with recommendations for additional gauging to evaluate whether the system needs reinstatement.

Remediation Action Plan (RAP) Ground Gas Monitoring, Sydney Airport, NSW – Installation of ground gas monitoring wells as a component of a remediation action plan in preparation for commercial constructions.

Groundwater Monitoring Event (GME), Villawood, NSW – Groundwater monitoring including measurement of physiochemical parameters and collection of samples for laboratory analysis to fulfil ongoing EMP requirements.

Groundwater Monitoring Event (GME), Box Hill, NSW – Groundwater monitoring including measurement of physiochemical parameters and collection of samples for laboratory analysis to fulfil ongoing remediation action plan requirements at a former poultry farm.

Preliminary Site Investigation (PSI), Goulburn, NSW – Preparation of a PSI including desktop information review and a site walkover for a rural property to fulfil development application requirements.

Imported VENM Documentation Review, Marsden Park NSW – Review of over 45 VENM assessment reports for the importation of over 800,000m³ of clean material for major residential estate in western Sydney.

Surface Water Quality Monitoring, Hunter Region, NSW – Routine surface water monitoring, measurement of physiochemical parameters, sample collection, catchment & equipment inspection and historic water quality data analysis.

Soil Investigation, Mushroom Tunnel, Picton NSW – site inspection and sampling of fill within a heritage item to evaluate its suitability for open space/public use. Soils and tunnel structure assessed for contaminants of concern with recommendations presented to allow the safe use of the asset by the general public.

Attachment B – Declaration

Independent Audit Declaration Form

Project Name	Independent Environmental Audit, Vopak Terminals (Sydney) Site B	
Consent Number	SSD 7000	
Description of Project	Operation of a bulk liquids storage facility	
Project Address	37 Friendship Road, Port Botany	
Proponent	Vopak Terminals Australia Pty Ltd	
Title of Audit	Independent Environmental Audit of the	
Date	24 January 2022	

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Post* Approval Requirements (Department 2020);
- the findings of the audit are reported truthfully, accurately and completely;
- · I have exercised due diligence and professional judgement in conducting the audit;
- · I have acted professionally, objectively and in an unbiased manner;
- I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child;
- neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Notes:

- a) Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Auditor/Technical Specialist	Peter Moore
Signature	A
Qualifications	Auditor /Auditor Technical Specialist
	 Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC41043)
	BE (Civil)
	Chartered Professional Engineer CP Eng
Name of Auditor/Technical Specialist	Cheryl Halim
Signature	Anerel
Qualifications	• Exemplar Global AU (ISO 19011:2018) (No. 11280933-7383767)

Company Address	189 Kent St Sydney NSW 2000
Company	Geosyntec Consultants Pty Ltd
Qualifications	Bachelor of Environmental Science & Management
Signature	E.M
Name of Support Auditor	Edward Munnings
Qualifications	BSc (Environmental, Soil Science Major)BSc (Hons) (Environmental, Soil & Microbiological Sciences)
Signature	Durner
Name of Support Auditor	Diana Turner
	PhD (Chemical Engineering)
	BE (Chemical)



Department of Planning and Environment

Vopak Terminals Sydney Pty Limited SHECQ Manager 20 Friendship Road Port Botany NSW 2036

By email: michael.martin@vopak.com

8 February 2022

Attention: Michael Martin

Vopak Bulk Liquids Facility (SSD-7000) Independent Audit Team Approval

I refer to your request (**SSD-7000-PA-7**) for the Secretary's approval of a suitably qualified, experienced and independent team of experts to undertake the Independent Environmental Audit (**IEA**) for the Vopak Bulk Liquids Facility - IEA Team Proposal - SSD-7000 (**Consent**).

The Department of Planning and Environment (**Department**) has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. Consequently, I can advise that the Secretary approves the appointment of the referenced experts name to prepare the Independent Audit.

In accordance with Condition C11 of SSD-7000 (**Consent**), the Secretary has agreed to the following audit team from Geosyntec Consultants Pty Ltd:

- Mr Peter Moore as lead auditor
- Ms Cheryl Halim as auditor
- Ms Diana Turner as assistant auditor; and
- Mr Edward Munnings as assistant auditor.

Please ensure this correspondence is appended to the Independent Audit Report.

The Independent Audit must be prepared, undertaken and finalised in accordance with the requirements of Conditions C11 and C12 of SSD-7000. The Department also recommends consideration be given to the *Independent Audit Post Approval Requirements* (Department 2020) to the extent that it does not contradict Conditions C11 and C12 of SSD-7000. Failure to meet these requirements will require revision and resubmission.

The Department reserves the right to request an alternate auditor or audit team for future audits.

Notwithstanding the agreement for the above listed audit team for this development, each respective development consent requires a request for the agreement to the auditor or audit team be submitted to the Department, for consideration of the Secretary. Each request is reviewed and depending on the complexity of future projects, the suitability of a proposed auditor or audit team will be considered.

Should you wish to discuss the matter further, please contact Maria Divis on 02 8275 1156 or <u>compliance@planning.nsw.gov.au</u>.

Yours sincerely

Julia Pope Team Leader Compliance - Metro Compliance

As nominee of the Planning Secretary

From:	Cheryl Halim
Sent:	Monday, 21 February 2022 10:30 AM
То:	Enquiries@nswports.com.au
Cc:	Peter Moore; Diana Turner
Subject:	Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd
Attachments:	2. Appointment of Experts_08022022_010257pdf

Dear NSW Ports,

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals (Sydney) Pty Ltd to conduct an independent environmental audit (IEA) of the operation phase for Site B, located at 37 Friendship Road, Port Botany (Lot 201 DP1210638).

The State Significant Development (SSD) consent for the site (SSD 7000) issued by the Department of Planning, Industry and Environment (DPIE) requires the audit to be conducted in accordance with the requirements outlined in the Independent Audit Post Approval Requirements (2020). We have been approved as the Auditor for the site, in accordance with the letter provided by DPIE (attached).

In accordance with the Independent Audit PAR (2020), we are required to consult with Planning and other agencies / key stakeholders to obtain their input into the scope of the Audit.

Please advise if NSW Ports has any comments/concerns regarding environmental issues relating to the project that you would like us to consider as part of the independent audit. The audit has been scheduled to take place on 18 March 2022.

Please do not hesitate to contact us if you have any questions.

We look forward to hearing back from you. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

From:	Cheryl Halim
Sent:	Monday, 21 February 2022 11:13 AM
То:	Larissa.Borysko@epa.nsw.gov.au
Cc:	Peter Moore; Diana Turner
Subject:	Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd
Attachments:	2. Appointment of Experts_08022022_010257pdf

Dear EPA,

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals (Sydney) Pty Ltd to conduct an independent environmental audit (IEA) of the operation phase for Site B, located at 37 Friendship Road, Port Botany (Lot 201 DP1210638).

The State Significant Development (SSD) consent for the site (SSD 7000) issued by the Department of Planning, Industry and Environment (DPIE) requires the audit to be conducted in accordance with the requirements outlined in the Independent Audit Post Approval Requirements (2020). We have been approved as the Auditor for the site, in accordance with the letter provided by DPIE (attached).

In accordance with the Independent Audit PAR (2020), we are required to consult with Planning and other agencies / key stakeholders to obtain their input into the scope of the Audit.

Please advise if EPA has any comments/concerns regarding environmental issues relating to the project that you would like us to consider as part of the independent audit. The audit has been scheduled to take place on 18 March 2022.

Please do not hesitate to contact us if you have any questions.

We look forward to hearing back from you. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

From:	Cheryl Halim
Sent:	Monday, 21 February 2022 11:20 AM
То:	'council@randwick.nsw.gov.au'
Cc:	Peter Moore; Diana Turner
Subject:	Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd
	(Addressed to Mr Elias Coorey)
Attachments:	2. Appointment of Experts_08022022_010257pdf

Dear Mr Coorey,

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals (Sydney) Pty Ltd to conduct an independent environmental audit (IEA) of the operation phase for Site B, located at 37 Friendship Road, Port Botany (Lot 201 DP1210638).

The State Significant Development (SSD) consent for the site (SSD 7000) issued by the Department of Planning, Industry and Environment (DPIE) requires the audit to be conducted in accordance with the requirements outlined in the Independent Audit Post Approval Requirements (2020). We have been approved as the Auditor for the site, in accordance with the letter provided by DPIE (attached).

In accordance with the Independent Audit PAR (2020), we are required to consult with Planning and other agencies / key stakeholders to obtain their input into the scope of the Audit.

Please advise if Council has any comments/concerns regarding environmental issues relating to the project that you would like us to consider as part of the independent audit. The audit has been scheduled to take place on 18 March 2022.

Please do not hesitate to contact us if you have any questions.

We look forward to hearing back from you. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

From:	Joanne Brown
То:	Cheryl Halim
Subject:	504946 - RE: Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd
Date:	Tuesday, 15 March 2022 11:41:59 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Dear Dr Halim,

Thank you for your correspondence in relation to the upcoming Audit of the subject site. Our local community often raise concerns with regards to:

- Air Quality and odour emissions from the use and operation of sites located in and around the Ports,
- Noise Emissions particularly through the evening and night time periods creating a noise/sleep disturbance.

Upon review of Council records I have noted written correspondence received back in 2020 (extracts copied below). It is believed that this relates to a particular incident which occurred on 7 May, 2020 and is in relation to odours and air quality:

"I would like to report a strong smell of asphalt at La Perouse. The wind is NW and there are no processing plants between here and upwind to the Port. The smell is sickening. My neighbour has also been affected. I would like to remind everyone that hydrogen sulphide and other mercaptans which emanate from hot asphalt are highly poisonous." "Yesterday morning there was a strong sickening chemical odour at La Perouse. The wind was blowing from the Port. I reported it to the Port and they came back below basically saying they could not determine if the odour was coming from the port and alluded to ship offloading operations as a possible cause.

I was also reliably told yesterday that there chronically is choking and sickening odours at the Prince of Wales Drive whenever the wind is coming from the North. I went there at noon today. I am still nauseous from the sickening and toxic fumes which I unavoidably inhaled coming from the tar plant while taking the attached photos. The tar plant adjoins the POW roadway. Those fumes contain hydrogen sulphide and mercaptans which are highly poisonous.

I find the Port response below attempting to lay the blame on offloading ships absolutely incredible, especially so because a couple of years ago there was a gas escape which affected several suburbs traced back to the plant in the photos. That plant is hundreds of metres away from the wharves."

I understand that you will cover all aspects of the EPL. It is requested that air and noise quality and emissions as described above be included in your audit. Please do not hesitate to contact me directly should you require anything further in this regard.

Thank you, Joanne

Joanne Brown Senior Environmental Health Officer Randwick City Council Direct 9093 6879 Call Centre 1300 722 542 Monday - Thursday

From: Cheryl Halim <Cheryl.Halim@Geosyntec.com>

Sent: Thursday, 10 March 2022 2:28 PM

To: Joanne Brown < Joanne.Brown@randwick.nsw.gov.au>

Cc: Peter Moore <Peter.Moore@Geosyntec.com>

Subject: CM: RE: Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd (Addressed to Mr Elias Coorey)

Hi Joanne,

Our work is to conduct independent environmental audit to meet condition C11 of SSD7000.

The environmental protection licence (EPL) 6007 provides details of the operation at the site as a Vopak Bitumen Terminal (EPL is attached).

The audit will review compliance against the relevant items of the SSD consent and environmental protection licence (EPL) 6007 for the operational phase.

I hope that answers your question.

As required by the guideline, we have to engage with relevant agencies to see if each agency has some items they would like us to include as part of the audit. Please let me know if you have any other questions. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

geosyntec | SiREM | savron

From: Joanne Brown <<u>Joanne.Brown@randwick.nsw.gov.au</u>>

Sent: Thursday, 10 March 2022 10:57 AM

To: Cheryl Halim < <u>Cheryl.Halim@Geosyntec.com</u>>

Subject: RE: Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd (Addressed to Mr Elias Coorey)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Dear Dr Halim,

Thank you for contacting the Council and seeking Councils comments and concerns in relation to the environmental issues of the project.

I understand your independant audit is "of the operation phase for Site B". Can you please refer me

to more details and information to assist with understanding the scope of works proposed and being undertaken by yourself and also the applicant and also confirm which operations are included for Site B.

Thank you and kind regards Joanne

Joanne Brown Senior Environmental Health Officer Randwick City Council Direct 9093 6879 Call Centre 1300 722 542 Monday - Thursday

From: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>> Sent: Monday, 21 February 2022 11:20 AM To: Randwick City Council <<u>council@randwick.nsw.gov.au</u>> Cc: Peter Moore <<u>Peter.Moore@Geosyntec.com</u>>; Diana Turner <<u>Diana.Turner@Geosyntec.com</u>> Subject: Independent Environmental Audit _ Consultation _ SSD 7000_Vopak Terminals (S

Subject: Independent Environmental Audit - Consultation - SSD 7000, Vopak Terminals (Sydney) Pty Ltd (Addressed to Mr Elias Coorey)

Dear Mr Coorey,

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals (Sydney) Pty Ltd to conduct an independent environmental audit (IEA) <u>of the operation phase for Site B</u>, located at 37 Friendship Road, Port Botany (Lot 201 DP1210638).

The State Significant Development (SSD) consent for the site (SSD 7000) issued by the Department of Planning, Industry and Environment (DPIE) requires the audit to be conducted in accordance with the requirements outlined in the Independent Audit Post Approval Requirements (2020). We have been approved as the Auditor for the site, in accordance with the letter provided by DPIE (attached).

In accordance with the Independent Audit PAR (2020), we are required to consult with Planning and other agencies / key stakeholders to obtain their input into the scope of the Audit.

Please advise if Council has any comments/concerns regarding environmental issues relating to the project that you would like us to consider as part of the independent audit. The audit has been scheduled to take place on 18 March 2022.

Please do not hesitate to contact us if you have any questions.

We look forward to hearing back from you. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

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Keep up to date with everything happening in Randwick City through <u><i>Randwick News</u></u>, a short weekly email about living in our great city.</u>

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Geosyntec Consultants Pty Ltd ABN 23 154 745 525 Suite 1, Level 9, 189 Kent St Sydney NSW 2000 www.geosyntec.com.au

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21292 L2 DPIE Consultation SSD7000 Vopak 37 Friendship Rd Botany 21Feb22

22 February 2022

Pamela Morales Department of Planning, Industry and Environment

Via email: pamela.morales@planning.nsw.gov.au

Dear Ms Morales,

Re: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany, NSW

Geosyntec Consultants Pty Ltd (Geosyntec) has been engaged by Vopak Terminals Australia Pty Ltd (Site B) (Vopak) to conduct an Independent Environmental Audit project for Vopak Terminals (Site B), located at 37 Friendship Road, Port Botany, NSW. The site is listed as Lot 201 DP1210638.

The Independent Environmental Audit is conducted to meet Conditions C11 and C12 of SSD 7000 approval (23 November 2016).

The Independent Environmental Audit will be conducted in accordance with the NSW Government Independent Audit Post Approval May (June 2020) (IAPAR 2020).

The proposed audit team includes Peter Moore as Lead Auditor, assisted by Cheryl Halim as Auditor and Diana Turner and Edward Munnings as Support Auditors. The Audit Team has been approved by DPIE in a letter dated 8 February 2022 (attached in Attachment A).

As required by the IAPAR (2020), we need to conduct consultation with DPIE and other agencies. Can DPIE please provide any items that need to be included as part of our Audit?

Should you have any queries or wish to discuss any points, please do not hesitate to contact the undersigned.

Yours sincerely,

Peter Moore Independent Environmental Auditor Geosyntec Consultants Pty Ltd

Cheryl Halim Independent Environmental Auditor/ Exemplar Global AU (ISO 19011:2018) (No. 11280933-7383767) Geosyntec Consultants Pty Ltd

Attachments:

Attachment A – Approval of Audit Team

Attachment A – Approval of Audit Team



Department of Planning and Environment

Vopak Terminals Sydney Pty Limited SHECQ Manager 20 Friendship Road Port Botany NSW 2036

By email: michael.martin@vopak.com

8 February 2022

Attention: Michael Martin

Vopak Bulk Liquids Facility (SSD-7000) Independent Audit Team Approval

I refer to your request (**SSD-7000-PA-7**) for the Secretary's approval of a suitably qualified, experienced and independent team of experts to undertake the Independent Environmental Audit (**IEA**) for the Vopak Bulk Liquids Facility - IEA Team Proposal - SSD-7000 (**Consent**).

The Department of Planning and Environment (**Department**) has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. Consequently, I can advise that the Secretary approves the appointment of the referenced experts name to prepare the Independent Audit.

In accordance with Condition C11 of SSD-7000 (**Consent**), the Secretary has agreed to the following audit team from Geosyntec Consultants Pty Ltd:

- Mr Peter Moore as lead auditor
- Ms Cheryl Halim as auditor
- Ms Diana Turner as assistant auditor; and
- Mr Edward Munnings as assistant auditor.

Please ensure this correspondence is appended to the Independent Audit Report.

The Independent Audit must be prepared, undertaken and finalised in accordance with the requirements of Conditions C11 and C12 of SSD-7000. The Department also recommends consideration be given to the *Independent Audit Post Approval Requirements* (Department 2020) to the extent that it does not contradict Conditions C11 and C12 of SSD-7000. Failure to meet these requirements will require revision and resubmission.

The Department reserves the right to request an alternate auditor or audit team for future audits.

Notwithstanding the agreement for the above listed audit team for this development, each respective development consent requires a request for the agreement to the auditor or audit team be submitted to the Department, for consideration of the Secretary. Each request is reviewed and depending on the complexity of future projects, the suitability of a proposed auditor or audit team will be considered.

Should you wish to discuss the matter further, please contact Maria Divis on 02 8275 1156 or <u>compliance@planning.nsw.gov.au</u>.

Yours sincerely

Julia Pope Team Leader Compliance - Metro Compliance

As nominee of the Planning Secretary

From:	Maria Divis <maria.divis@planning.nsw.gov.au></maria.divis@planning.nsw.gov.au>
Sent:	Tuesday, 22 February 2022 3:39 PM
То:	Cheryl Halim
Subject:	RE: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Good afternoon Cheryl,

Reference is made to the subject matter.

Thank you for consulting with the Department in order to obtain input into the scope of the audit, in accordance with the Conditions of SSD 7000 (the **Consent**).

The Department has no specific areas of concern in relation to the project for inclusion in the audit. Please ensure that the requirements of the Conditions of Consent are addressed in the submission.

As detailed in the Department's letter dated 8 February 2022, the Department also recommends consideration be given to the Independent Audit Post Approval Requirements (available <u>here</u>) to the extent that this does not contradict Conditions C11 and C12 of SSD-7000.

For further enquiries, please contact me on the below details.

Kind regards,

Maria Divis Senior Compliance Officer (Mon-Thurs)

Planning & Assessment | Department of Planning and Environment **T** 02 8275 1156 | **E** Maria.Divis@planning.nsw.gov.au Locked Bag 5022 | PARRAMATTA NSW 2124 www.dpie.nsw.gov.au



The Department of Planning and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically. To: Cheryl Halim < Cheryl. Halim@Geosyntec.com>

Cc: Peter Moore <Peter.Moore@Geosyntec.com>; Diana Turner <Diana.Turner@Geosyntec.com>; Maria Divis <Maria.Divis@planning.nsw.gov.au>

Subject: RE: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700

Hi Cheryl,

Thanks for your email. I've contacted our compliance team who are happy to respond to your query.

I have cc'd my colleague Maria Divis – Senior Compliance Officer in this email.

If you have any questions, please feel free to contact me.

Pamela Morales

Industry Assessments Department of Planning and Environment 02 9274 6386

From: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>> Sent: Tuesday, 22 February 2022 9:15 AM To: Pamela Morales <<u>pamela.morales@planning.nsw.gov.au</u>> Cc: Peter Moore <<u>Peter.Moore@Geosyntec.com</u>>; Diana Turner <<u>Diana.Turner@Geosyntec.com</u>> Subject: [WARNING: FILE ENCRYPTED]Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700

Dear Ms Morales,

I have been given your email address from our client (Vopak Terminals). We are conducting an Independent Environmental Audit for this site to meet Condition C11 and C12 of SSD 7000 during its operational stage and conducting our consultation DPIE in our attached letter. Please let us know if you need us to request our client to upload this in the project portal.

Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

From:	Julia Pope <julia.pope@planning.nsw.gov.au></julia.pope@planning.nsw.gov.au>
Sent:	Wednesday, 16 March 2022 10:18 AM
То:	Cheryl Halim
Cc:	Maria Divis
Subject:	FW: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700
Attachments:	180822 Cond 11 Letter.pdf; Condition 11, Part C - SSD 7000 IEA extension signed letter.PDF

You don't often get email from julia.pope@planning.nsw.gov.au. Learn why this is important

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Dear Cheryl

In response to your email see my answers in red below.

Julia Pope Team Leader Compliance - Metro

Compliance | Department of Planning and Environment **T** 02 8217 2068 **M** 0448 229 658 | **E** julia.pope@planning.nsw.gov.au Locked Bag 5022, 4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2124 www.dpie.nsw.gov.au



The Department of Planning and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

All post approval and compliance documents are to be submitted online, via the Major Projects Website. To do this, please refer to the instructions available <u>here</u>.

From: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>>

Sent: Tuesday, 15 March 2022 12:42 PM

To: Maria Divis <<u>Maria.Divis@planning.nsw.gov.au</u>>

Cc: Peter Moore <<u>Peter.Moore@Geosyntec.com</u>>

Subject: RE: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700

Good afternoon, Maria,

We have rescheduled the Audit for the 29th March 2022. We have two questions that require your clarification:

1. Condition C11 requires the first audit to be conducted within 2 years from the date of consent. Vopak states that they have got confirmation from Planning that the audit can be conducted within 2 years of construction being commenced (Vopak is still to provide us with evidence of this communication). The construction commenced in late 2019 and we understand that either way this condition has not been met. We were firstly engaged to conduct audit for the operational phase only. Given that an audit was not completed for the construction phase, does our Audit need to include the construction phase? If so, we will not be able to assess some of the performance during the construction as the construction is already complete.

Correspondence relating to the IEA extension is attached for your information. As the IEA was not conducted for the construction phase, the audit will need to cover both construction and operation phases. If you are not able to assess some of the performance for the construction phase because the work is

finished, this needs to be identified as a non-compliance.

2. Condition C12 states that 'Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to he Secretary, together with its response to any recommendations contained in the audit report." Can you please confirm if the 3 month period starts from the date of the Audit (i.e. scheduled for 29th March 2022)?

3 months starts from the date the auditor was authorised by Vopak to do the audit. The condition provides for consideration of additional time, if justified. Any request will need to be in writing and reasons given.

Please don't hesitate to contact us if you have any questions. Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

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From: Maria Divis <<u>Maria.Divis@planning.nsw.gov.au</u>>
Sent: Tuesday, 22 February 2022 3:39 PM
To: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>>
Subject: RE: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW SSD700

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Good afternoon Cheryl,

Reference is made to the subject matter.

Thank you for consulting with the Department in order to obtain input into the scope of the audit, in accordance with the Conditions of SSD 7000 (the **Consent**).

The Department has no specific areas of concern in relation to the project for inclusion in the audit. Please ensure that the requirements of the Conditions of Consent are addressed in the submission.

As detailed in the Department's letter dated 8 February 2022, the Department also recommends consideration be given to the Independent Audit Post Approval Requirements (available <u>here</u>) to the extent that this does not contradict Conditions C11 and C12 of SSD-7000.

For further enquiries, please contact me on the below details.

Kind regards,

Maria Divis Senior Compliance Officer (Mon-Thurs)

Planning & Assessment | Department of Planning and Environment **T** 02 8275 1156 | **E** <u>Maria.Divis@planning.nsw.gov.au</u> Locked Bag 5022 | PARRAMATTA NSW 2124 <u>www.dpie.nsw.gov.au</u>



The Department of Planning and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

From: Pamela Morales <<u>pamela.morales@planning.nsw.gov.au</u>>
Sent: Tuesday, 22 February 2022 3:06 PM
To: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>>
Cc: Peter Moore <<u>Peter.Moore@Geosyntec.com</u>>; Diana Turner <<u>Diana.Turner@Geosyntec.com</u>>; Maria Divis
<<u>Maria.Divis@planning.nsw.gov.au</u>>
Subject: RE: Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW SSD700

Hi Cheryl,

Thanks for your email. I've contacted our compliance team who are happy to respond to your query.

I have cc'd my colleague Maria Divis – Senior Compliance Officer in this email.

If you have any questions, please feel free to contact me.

Pamela Morales

Industry Assessments Department of Planning and Environment 02 9274 6386

From: Cheryl Halim <<u>Cheryl.Halim@Geosyntec.com</u>>

Sent: Tuesday, 22 February 2022 9:15 AM

To: Pamela Morales pamela.morales@planning.nsw.gov.au

Cc: Peter Moore <<u>Peter.Moore@Geosyntec.com</u>>; Diana Turner <<u>Diana.Turner@Geosyntec.com</u>>;

Subject: [WARNING: FILE ENCRYPTED]Independent Environmental Audit, Vopak Terminals Site B, 37 Friendship Road, Port Botany NSW - SSD700

Dear Ms Morales,

I have been given your email address from our client (Vopak Terminals). We are conducting an Independent Environmental Audit for this site to meet Condition C11 and C12 of SSD 7000 during its operational stage and conducting our consultation DPIE in our attached letter. Please let us know if you need us to request our client to upload this in the project portal.

Thank you.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

Vopak Terminals Australia Gate B47 20 Friendship Road Port Botany NSW 2036 PO Box 191 Matraville NSW 2036 Australia



Telephone 61-2 9666 4455 Facsimile 61-2 9694 1182

www.vopak.com

Wednesday 22 August 2018

Secretary NSW Department of Planning and Environment GPO Box 39 SYDNEY NSW 2001

Attention: Mr Chris Ritchie, Director Industry Assessments

Dear Mr Ritchie,

RE: Condition 11, Part C, Development Consent SSD 7000,

Vopak Terminals Sydney Pty Ltd (**Vopak**) seeks direction from the Secretary in relation to Condition 11 (**the Condition**), Part C of Development Consent SSD 7000 that states:

'Within two years of the date of this consent and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environment Audit of the Development'

Vopak note that Development Consent for SSD 7000 was granted on 23 November 2016 and application of the Condition would require Vopak to commission an Independent Environment Audit before the 23 November 2018.

At the date of this letter, Vopak has not commenced construction of the Development.

Therefore, Vopak is of the opinion that commissioning the Independent Environment Audit would be futile. Vopak's preference would be to align the application of The Condition to the commencement of operation of the first asset or system at the Development.

Please give me a call if you would like to discuss further.

Best Regards

Michael Martin SHECQ & Sustainability Manager VOPAK TERMINALS SYDNEY PTY LTD

Phone: 02 8336 1929 Mobile: 0409 941 191



A Royal Vopak Company



Contact Name: Pamela Morales Number: (02) 9274 6386 Email: pamela.morales@planning.nsw.gov.au

Mr Michael Martin SHECQ and Sustainability Manager Vopak Terminals Pty Ltd PO Box 191 MATRAVILLE NSW 2036

Dear Mr Martin

Vopak Bulk Liquids Terminal – Site B4 Independent Environmental Audit – Condition C11, Schedule 2 (SSD 7000)

I refer to your letter dated 22 August 2018, in which you have requested to delay the commissioning of an Independent Environmental Audit (IEA) required by Condition C11 of SSD 7000, until the first asset or system for the development has commenced operation.

As you have not yet commenced construction of the development, the Department agrees an IEA is not required at this stage.

The Department has accepted your request for an extension of time and requires you to submit the first IEA within 12 months of commencing construction of the development.

Should you have any queries in relation to this matter, please contact Pamela Morales on the above contact details.

Yours sincerely

-. Patece 19/11/18

Chris Ritchie Director Industry Assessments as delegate of the Planning Secretary


Appendix D Record of Meeting and Agenda



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Geosyntec Consultants Pty Ltd ABN 23 154 745 525 Suite 1, Level 9, 189 Kent St Sydney NSW 2000 www.geosyntec.com.au

21292 L3 Kick-off meeting agenda 15Mar22

Independent Environmental Audit – Kickoff Meeting Agenda

Site: Vopak Terminals (Sydney) Site B

SSD: SSD 7000

Date & Time: 15 March 2022 11am

Invitees:

Michael Martin (Vopak)

Cheryl Halim (Geosyntec)

Andrew Malanos (Vopak) Diana Turner (Geosyntec) Peter Moore (Geosyntec)

AGENDA

- 1. Introductions
 - a. Team
 - b. Roles, Responsibilities
- 2. Our understanding of development project
- 3. Audit aim to address SSD 7000 Conditions
- 4. Objectives & methodology of IEA
 - a. Objectives
 - b. Guideline
 - c. Timeline/Audit Schedule
 - d. Audit Table
 - e. Criteria
 - f. Consultation with stakeholders
- 5. Audit Timing
- 6. Resources required



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21292 L4 Opening Meeting Agenda 25Mar22

Geosyntec Consultants Pty Ltd

Independent Environmental Audit – Opening Meeting Agenda

Site: Vopak Terminals Site B4a, 37 Friendship Road, Port Botany, NSW

SSD: 7000

Date & Time: Tuesday 29 March 2022, 9am

Invitees:

Andrew Malanos (Vopak)	Michael Martin (Vopak)	Muslim Bhimani
Peter Moore (Geosyntec)	Cheryl Halim (Geosyntec)	Diana Turner (Geosyntec)

AGENDA

- 1. Introductions
 - a. Participants and Roles
 - b. Purpose and Objective of Audit
 - c. Scope of Audit (boundary, activities, processes)
 - d. Criteria for Audit (SSD Conditions, EPL, OEMP commitments, CEMP may need to be revisited)
- 2. Audit Methodology
 - a. Timing site based/desktop based
 - b. Evidence based (record and observation)
 - c. Recording of observations (notes, photographs, discussions)
 - d. Any site limitation, cultural, religious or social sensitivities
 - e. Additional Audit requirements from Agency Consultation
 - f. Notification from DPIE or other agencies
 - g. Complaints
 - h. Incidents
- 3. Reporting
 - a. Method
 - b. Grading Compliant, Non-Compliant, Not Triggered, Recommendations
 - c. Post Audit opportunity to respond prior to Final Report
- 4. Close out meeting timing via Teams or email (TBC)

Independent Environmental Audit – Attendance Sheet

Signature **Position & Company** Name 1/ lau ANDREN MALANOS COMPLIMICE MANAGER - VOMME Treat Martin Operations Menager Michael Martin SHECG Marager for Mare frincipal Engreen Geograte MUSLEM BHEMANI TERMENAL MANAGER DIANA TURNER SAFENN Geosyntee Detert Cheryl Halim Georgentec

Cheryl Halim

From:	Cheryl Halim
Sent:	Thursday, 31 March 2022 4:06 PM
То:	Andrew Malanos; Michael Martin; Muslim Bhimani
Cc:	Peter Moore; Diana Turner
Subject:	21292 Closing Meeting and Updated Audit Table
Attachments:	Appendix F. Audit Table.xlsx

Dear All,

Thank you to Vopak for attending our Opening Meeting and field audit for the Independent Environmental Audit (IEA) on Wednesday 29 March 2022.

1. Background and Objective of Email

During the site visit, we observed environmental management and conducted interviews with key Vopak representatives regarding site practices. We also completed a review of the information provided by Vopak against the IEA Audit Table included in our Audit Program.

As discussed onsite, the compliance status is evaluated as follows:

- Compliant
- Non-compliant
- Non-triggered

The purpose of this email is to provide an overview of our findings, and a request for additional information to address outstanding items.

Please treat this email as the Closing Meeting for the IEA conducted on 29 March 2022.

2. Status of Review and Timing.

The status of our Audit Tables is attached – please see both tables. Outstanding items are flagged in yellow, and we request additional information (if available) from Vopak. Items in orange are for us to update at the completion of the Audit.

The Draft Report will be sent to Vopak by 22 April 2022.

Vopak will have an opportunity to provide additional information and rectify any potential non-compliances by 29 April 2022, after which we will issue our final report.

3. Identified Strengths

During the site audit, it was demonstrated that Vopak has proactive approach to environmental management and is amenable to suggestions on improvement. Vopak staff have high understanding of the process and environmental mitigation measures required to minimise environmental impacts.

4. Potential non-compliances and opportunities for improvement

Geosyntec identified the following potential non-compliances / opportunities for improvements as detailed in the Audit table:

- Item G16 Non-compliance due to submission of Emergency Plan within 2 months of commissioning.
- Item G29 Detailed procedures for notifying nearby residents of potential disruptions to routes are missing from the CTMP.
- Item G45 Approval from DPE has not been provided by OEMP and the operation has commenced.
- Item G52 The Audit did not meet the required timing.

We seek a response to the items above by 15 April 2022.

5. Outstanding Items in Audit Table

See attached tables. Please provide before 15 April 2022 (preferably earlier).

Thank you for your time.

Please don't hesitate to contact Peter or myself if you have any questions. Sent on behalf of Peter Moore, Lead Auditor.

Kind Regards,

Dr Cheryl Halim Principal Environmental Engineer

Geosyntec Consultants Pty Ltd A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000 P: +61 (2) 9251 8070 M: +61 430 013 246

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Appendix E Photographs



Client Name:

Site Location:

Project Number:

Vopak Terminals Australia Pty Ltd





Client Name:	Site Location:	Project Number:		
Vopak Terminals Australia Pty Ltd	37 Friendship Road, Port Botany, NSW 2036	21292		





Client Name:

Site Location:

Project Number:

Vopak Terminals Australia Pty Ltd





Client Name:

Site Location:

Project Number:

Vopak Terminals Australia Pty Ltd





Client Name:

Site Location:

Project Number:

Vopak Terminals Australia Pty Ltd





Client Name:	Site Location:	Project Number:
Vopak Terminals Australia Pty Ltd	37 Friendship Road, Port Botany, NSW 2036	21292

Photo Number: Date: G119, G120, G121, G159 29/3/2022 Description: Stormwater treatment



Client Name:	Site Location:	Project Number:		
Vopak Terminals Australia Pty Ltd	37 Friendship Road, Port Botany, NSW 2036	21292		



Photo Number:	Date:	the set
G139	29/3/2022	
Description:		
Groundwater moni	toring well	



Client Name:	Site Location:	Project Number:
Vopak Terminals Australia Pty Ltd	37 Friendship Road, Port Botany, NSW 2036	21292

 Photo Number:
 Date:

 G152
 29/3/2022

 Description:
 Speed limit sign (photo provided by Vopak)



Appendix F Audit Table

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations		mpliance Sta	
		/ OEMP Section				/Observation			Compliant No	Non- Compliant	Not Triggered
Part A Admini	strative Cond	itions									
G1	SSD	A1	Obligation to Minimise Harm to the Environment	In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction or operation of the Development.		Record, observation	Based on review of environmental performance and the implementation of the CEMP and OEMP, the Auditor considers that Vopak has implemented all reasonable and feasible measures to prevent and/or minimise harm to the environment. These include (but not limited to): - Bunds around tanks and associated alarm for level detection - Stormwater treatment and procedure for testing and recycling of stormwater.				
G2	SSD	A2	Terms of Consent	The Applicant shall carry out the Development in accordance with: (a) State Significant Development Application SSD 7000; (b) EIS; (c) RTS; (d) the plans and drawings located at Appendix 1; and (e) the Management and Mitigation Measures located at Appendix 2.	Construction	Record, observation	Based on review by the Auditor, the Applicant carried out the Development to address requirements of the items listed. Non-compliances with respect to each condition are listed in the relevant items below.				
G3	SSD	A3	Terms of Consent	If there is any inconsistency between the plans and documentation referred to in Condition A2 above, the most recent document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of any inconsistency.	Construction	Record	The Auditor has requested most recent reports.				
G4	SSD	A4	Terms of Consent	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Department's assessment of: (a) any reports, plans or correspondence that are submitted in accordance with this consent; and	Construction	Record	29/3/2022: Record sighted: - Comments from DPE on OEMP. - Submission of responses to DPE comments sighted on Major Projects portal, and the status is "Assessment".				
				(b) the implementation of any actions or measures contained within these reports, plans or correspondence.	Construction	Record	29/3/2022: Interview: - Vopak (MM) states that they are using the current OEMP internally until DPE assessment is provided. - Vopak (AC) states that there were no comments from Secretary for the construction plans.				
G5	SSD	A5	Limits Of Consent	This consent lapses five years after the date from which it operates, unless the Development has physically commenced on the land to which the consent applies before the date on which the consent would otherwise lapse under Section 95 of the Act.	Construction/ Operation	Record	29/3/2022: The construction for site B4A has been completed at the time of Audit.				
G6	SSD	A6	Limits Of Consent	The Applicant shall ensure that bulk liquids are only imported and exported via pipeline and are not dispatched by road vehicles directly from the site. Note: This condition does not give approval to an increase in bulk liquids throughput from Site B (via road) associated with project approval MP 06_0089.	Construction/ Operation	Record	29/3/2022: Interview: - Vopak (MM) states that bulk liquids are exported via pipeline and are not dispatched by road vehicles. Pipelines observed between B4A to site B1.				
G7	SSD	A7	Statutory Requirements	The Applicant shall ensure that all licences, permits and approvals are obtained and kept up to date as required throughout the life of the Development. No condition of this consent removes the obligation of the Applicant to obtain, renew or comply with such licences, permits or approvals.	Construction/ Operation	Record	29/3/2022: Interview: - Vopak (MM) states that the only two licences/approvals applicable for this site are SSD7000 and EPL6007, which are up to date.				
G8	SSD	A8	Structural Adequacy	 The Applicant shall ensure that all new buildings and structures on the site are constructed in accordance with the relevant requirements of the Building Code of Australia (BCA). Note: Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	Construction	Record	29/3/2022: Record sighted: - McKenzie Group (5 November 2021) Completion Statement No. 202856/01, stating that the completed works are generally in accordance with the relevant BCA.				
G9	SSD	A9	Staged Submission Of Plans And Programs	With the approval of the Secretary, the Applicant may: (a) submit any strategy, plan or program required by this consent on a progressive basis; and/or	Construction/ Operation	Record	Record sight (28 March 2022): NSW DPIE Letter dated 4 October 2019 providing approval to stage the submission of plans and programs				
				(b) combine any strategy, plan or program required by this consent.	Construction/ Operation	Record	None of the strategies, plans or programs have been combined.				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations		mpliance Sta	tus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggere
:10	SSD	A10	Evidence Of Consultation	Where consultation with any public authority is required by the conditions of this consent, the Applicant shall: (a) consult with the relevant public authority prior to submitting the required documentation to the Secretary or the Certifying Authority for approval, where required;	Construction/ Operation	Record	Assessed in relevant items (G13, G14, G15, G25, G29). To be finalised when these conditions are completed - awaiting for evidence of consultation on some of these.				
				(b) submit evidence of this consultation as part of the relevant documentation required by the conditions of this consent; and	Construction/ Operation	Record	 19/4/2022: Record sighted: Email correspondence with Council (9 December 2019) providing acceptance of CTMP Letter form DPIE (10 February 2020) providing acceptance of CTMP Evidence of consultation sighted for Items G13, G14, G15, G25, G29. 				
				(c) include the details of any outstanding issues raised by the relevant public authority and an explanation of disagreement between any public authority and the Applicant or any person acting on this development consent.	Construction/ Operation	Record	19/4/2020: Record sighted: - Email correspondence from Vopak (14 April 2022) stating there are no outstanding issues to report				
	SSD	A11	Utilities and Services	Utilities, services and other infrastructure potentially affected by the construction and operation of the Development shall be identified prior to construction to determine requirements for access to, diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are likely to be affected by the Development shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Applicant.	Construction	Record	 29/3/2022: Record sighted: Email from Vopak to Ausgrid dated 18 March 2021 regarding easement. 29/3/2022: Interview: Vopak (AC) states there was no other utility provider involved with this project. 				
art B Environ	mental Perfo	ormance									
G12	SSD	В1	Hazard And Risk	The Applicant shall: (a) implement all control measures proposed in the PHA;	Construction/ Operation		 29/3/2022: Record sighted: Sherpa (2015) Preliminary Hazard Analysis, Site B, Stage 4 Development ("B4 Project"), Port Botany ("PHA"). B4A HAZOP 2019 in Enablon, which provides 88 items raised. The status of the approval for all items are "Completed". Vopak (MB) states that the items were checked and validated by an approver. 				
				(b) implement all actions in response to the recommendations from the Buncefield incident investigation report as listed in Appendix A of the PHA; and	Construction/ Operation	Record	29/3/2022: Interview: - The Buncefield incident does not apply to site B4A as it related to flammable liquids, whereas the chemical stored onsite comprises combustible liquids.				
				(c) implement all recommendations of the PHA.	Construction/ Operation	Record	 29/3/2022: Record sighted: Sherpa (2015) Preliminary Hazard Analysis, Site B, Stage 4 Development ("B4 Project"), Port Botany ("PHA"). B4A HAZOP 2019 in Enablon, which provides 88 items raised. The status of the approval for all items are "Completed". Vopak (MB) states that the items were checked and validated by an approver. 				
G13	SSD	B2	Hazard And Risk	Prior to the completion of detailed design of the Development, or within such further period as the Secretary may agree, the Applicant shall prepare a Surge Study for the Development. The Study shall: (a) be prepared in consultation with SafeWork NSW prior to commencement of the study;	Pre- Construction	Record	29/3/2022: Record sighted: - Fitzroy Engineering (2020) Pressure Surge Study - Vopak (6 February 2020) Vopak B4A Expansion Project ("Project"), SSD 7000 - Surge Study to WorkSafe NSW.				
				(b) take into account the maximum pumping and tank filling rates when evaluating the pressures that can occur in the pipeline in a surge scenario; and	Pre- Construction	Record	29/3/2022: Record sighted: - Fitzroy Engineering (2020) Pressure Surge Study, which contains this information.				
				(c) evaluate the controls such as valve closing times and pressure rating of pipes and related equipment. The findings of the Surge Study shall be included in the Final Hazard Analysis (FHA) under Condition B4(d).	Pre- Construction	Record	 29/3/2022: Record sighted: Fitzroy Engineering (2020) Pressure Surge Study, which contains this information. Sherpa (27 February 2020) Vopak B4A Expansion Project Port Botany Condition of Consent Study Final Hazard Analysis. 				
614	SSD	В3	Hazard And Risk	Prior to finalising the detailed design of the Development, the Applicant shall consult with SafeWork NSW regarding any requirements under the Work Health and Safety Act 2011 and Work Health and Safety Regulation 2011.	Pre- Construction	Record	29/3/2022: Record sighted: - Vopak (6 February 2020) Vopak B4A Expansion Project ("Project"), SSD 7000 - Surge Study to WorkSafe NSW.				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	atus	
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G15	SSD	В4	Pre-construction	At least one month prior to the commencement of construction of the Development (except for construction of those preliminary works that are outside the scope of the hazard studies), or within such further period as the Secretary may agree, the Applicant shall prepare and submit for the approval of the Secretary, the studies set out under subsections (a) to (d) (the pre- construction studies) of this condition. Construction, other than of preliminary works, shall not commence until approval has been given by the Secretary and, with respect to the Fire Safety Study, approval has also been given by Fire and Rescue NSW (FRNSW). (a) CONSTRUCTION SAFETY STUDY A Construction Safety Study, consistent with the Department's Hazardous Industry Planning Advisory Paper No. 7, 'Construction Safety'. For developments in which the construction period exceeds six (6) months, the commissioning portion of the Construction Safety Study may be submitted two months prior to the commencement of commissioning of each discrete component/system of the Development as per the Development's Study shall identify and assess construction and demolition related hazards and the control measures that will be put in place to prevent and/or mitigate such hazards.	Pre- Construction	Record	29/3/2022: Record sighted: - Construction Safety Study approval letter by Secretary Delegate, dated 17 September 2019				
				 (b) FIRE SAFETY STUDY An update of the Fire Safety Study (FSS) for Site B, titled Vopak B3 Expansion Project, Port Botany – Fire Safety Study, Rev 0, prepared by Sherpa Consulting and dated August 2009 to include the Development. Prior to the commencement of each stage of the Development, this study shall be updated and submitted to the Secretary and FRNSW for their respective approval. The study shall cover the relevant aspects of the Department's Hazardous Industry Planning Advisory Paper No. 2, 'Fire Safety Study Guidelines' and the New South Wales Government's 'Best Practice Guidelines for Contaminated Water Retention and Treatment Systems'. The FSS shall be developed in consultation with FRNSW. The FSS shall also address the following: (i) the scope of the FSS should at least include the following: • the proposed increased discharge rates from bulk liquids berth (BLB) 1 and BLB 2; and 	Pre- Construction	Record	 29/3/2022: Record sighted: Sherpa (2019) Fire Safety Study Fire Safety Study and Final Hazard Assessment approval letter by Secretary Delegate, dated 24 June 2020. Sherpa (29 October 2021) Technical Note Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Emergency Plan is completed. Fire & Rescue NSW (2 June 2020) Fire Safety Study Vopak B4A Expansion Project Port Botany, which provides review outcomes of the FSS and states that two items need amendments. 	This item is considered to be non-compliant as FRNSW approval on the Fire Safety Study has not been provided. Recommendation: If not yet obtained, approval from FRNSW is obtained for the Fire Safety Study.			
				 interfacing of services with the existing Site B arising as a consequence of the Development; (ii) the recommended fire protection control measures arising from the FSS analysis be developed from first principle evaluation; (iii) if the Development is staged, the FSS for the first stage shall consider the requirements of the Fire detection/protection systems for the entire Development; and (iv) the analysis of required fire protection systems includes substantiation of effective and timely system initiation/activation with regard to the number of on-site personnel available at all hours of business operations. 							
				 (c) HAZARD AND OPERABILITY STUDY A Hazard and Operability Study (HAZOP) for the Development and the pipeline from the berths to Site B, chaired by a qualified person who is independent of the Development and approved by the Secretary prior to the commencement of the study. In addition, the following shall be covered in the HAZOP study: (i) surge issues due to an increase in pumping rates; and (ii) the ullage allowance above the high alarm/ESD level, taking into account the slow closing time of the ESD valves; and (iii) the study shall be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 8, 'HAZOP Guidelines'. The study report must be accompanied by a program for the implementation of all recommendations made in the report. If the Applicant intends to defer the implementation of a recommendation, reasons must be documented 	Pre- Construction	Record	 29/3/2022: Record sighted:: Vopak (2019) HAZOP Report Fitzroy Engineering (2020) Pressure Surge Study NSW DPIE (16/1/2020) Vopak Site B Bulk Fuel Storage Terminal, Port Botany (SSD 7000) - HAZOP Study for Stage B4A Diesel Storage Tanks, which provides the HAZOP study. Sherpa (29 October 2021) Technical Note Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Emergency Plan is completed. 				

Geosyntec ID	Document	SSD/EPL	Item	Condition	Audit Phase	Pre-	Evidence Collected / Observations	Independent Audit Findings and	Cor	npliance Sta	tus
		Condition / OEMP Section				review/Record /Observation		Recommendations	Compliant	Non- Compliant	Not Triggered
G15	SSD	B4	Pre-construction	 (d) FINAL HAZARD ANALYSIS A Final Hazard Analysis (FHA) of the site, consistent with the Department's Hazardous Industry Planning Advisory Paper No. 6, 'Hazard Analysis'. The FHA shall report on the implementation of the recommendations of the PHA. The FHA also shall: (i) demonstrate that the tank overfill protection system (for all tanks) reduces the risk so far as reasonably practicable. The following shall be included as part of this demonstration requirement: a sample bow-tie analysis of the tank overfill protection system; and the safety integrity level (SIL) allocation and verification report for the Development, in particular the tank overfill protection system and rim seal fire detection; (ii) re-evaluate and confirm all relevant data and assumptions from the PHA, in particular, the outcomes of the surge analysis that may result in changes in the risk assessment; (iii) re-evaluate and confirm all control measures proposed for the prevention and mitigation of incidents; and (iv) report on implementation of the recommendations of the PHA. 	Pre- Construction	Record	 28 March 2022: Record sighted: Sherpa (2020) Final Hazard Assessment Sherpa (29 October 2021) Technical Note Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Emergency Plan is completed. Fire Safety Study and Final Hazard Assessment approval letter by Secretary Delegate, dated 24 June 2020. Letter from Secretary dated 24 June 2020 states that the following is required: submitting the updated FSS for Stage B4A (revision 1) no later than two months prior to commencement of commissioning of Stage B4A. This updated FSS must: a. include the updates and recommendations in Fire and Rescue NSW's conditional approval of the FSS dated 2 June 2020; b. address all items in the Department's queries on the FSS of 25 March 2020; c. report on changes between the preliminary and final design of Stage B4A; and d. be consistent with the updates on the FSS outlined in your e-mail of 9 June 2020; and implementing all safeguards, actions and recommendations from the FSS in a timely manner. In reviewing the FHA, the Department is satisfied that the FHA has been performed and reported in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6, 'Hazard Analysis' and considered the relevant requirements under Condition B4(d). As such, the FHA is approved for works up to and including Stage B4A in accordance with the condition, subject to Vopak implementing all safeguards, actions and recommendations from the FHA in a timely manner. 29/3/2022: Interview: Vopak (AC) states that FSS has not been resubmitted. 	FSS is resubmitted to meet the Secretary's request.			
G16	SSD	В5	Pre-Commissioning	The Applicant shall develop and implement the plans and systems set out under subsections (a) to (b) of this Condition. No later than two months prior to the commencement of commissioning of the Development, or within such further period as the Secretary may agree, the Applicant shall submit, for the approval of the Secretary, documentation describing those plans and systems. Commissioning shall not commence until approval has been given by the Secretary. (a) EMERGENCY PLAN A comprehensive Emergency Plan and detailed emergency procedures for the Development. This plan shall include consideration of the safety of all people outside of the development who may be at risk from the development. The plan shall be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning'. The plan shall include interim emergency management arrangements (if any) which may be introduced between the commencement of commissioning and reaching end-state terminal operations. (b) SAFETY MANAGEMENT SYSTEM An update of the Safety Management System (SMS) that covers the development and Site B operations. The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. Records supporting the SMS shall be kept on-site and shall be available for inspection by the Secretary upon request. The Safety Management System shall be consistent with the Department's	Pre- Construction Pre- Construction	Record	 29/3/2022: Record sighted: Sherpa (29 October 2021) Technical Note Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Emergency Plan is completed. Submission to DPIE by email on 29/10/2021, noting that evidence of approval has not been sighted. 29/3/2022: Record sighted: Sherpa (29 October 2021) Technical Note Pre-Startup Compliance Report, Status Report - Hazard Study Conditions of Consent, which states that the Safety Management System is completed. Submission to DPIE by email on 29/10/2021, noting that evidence of approval has not been sighted. 	This item is considered non-compliant as the item was submitted to DPIE within 2 months of commissioning and evidence of approval from Secretary is not provided for the Emergency Plan. Recommendation: If not yet obtained, approval for the Emergency Plan is obtained from the Secretary. This item is considered non-compliant as the item was submitted to DPIE within 2 months of commissioning and evidence of approval from Secretary is not provided for the Safety Management System. Recommendation: If not yet obtained, approval for the Safety Management System is obtained from the Secretary.			
				Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management'. An inspection, testing and preventive maintenance program shall be developed, implemented and maintained to ensure the reliability and availability of the key safety critical equipment is, at a minimum, consistent with the data estimated in the PHA.							

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Compliance Status			
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered	
G17	SSD	B6	Pre-startup	PRE-STARTUP COMPLIANCE REPORT One month prior to the commencement of operation of each asset or system covered by this consent, the Applicant shall submit to the Secretary, a report detailing compliance with Conditions B1 to B5, including: (a) dates of study/plan/system submission, approval, commencement of construction and commissioning;	Construction/ Operation	Record	29/3/2022: Record sighted: - Prestartup Compliance Report Status Report – Hazard Study Conditions of Consent, B4A Expansion Project Vopak Site B, Port Botany dated 29 October 2021. a) dates provided					
				(b) actions taken or proposed, to implement the recommendations and safety- related control measures in the studies/plans/systems;	Construction/ Operation	Record	 29/3/2022: Record sighted:: Prestartup Compliance Report Status Report – Hazard Study Conditions of Consent, B4A Expansion Project Vopak Site B, Port Botany dated 29 October 2021. b) implementation of recommendations appropriate to stage of development demonstrated. 					
				(c) a pre-startup safety review/checklist; and	Construction/ Operation	Record	29/3/2022: Record sighted:: - Prestartup Compliance Report Status Report – Hazard Study Conditions of Consent, B4A Expansion Project Vopak Site B, Port Botany dated 29 October 2021. c) pre-startup safety review/checklist provided.					
				(d) responses to each requirement imposed by the Secretary under Condition B9 of this Schedule.	Construction/ Operation	Record	29/3/2022: Record sighted:: - Prestartup Compliance Report Status Report – Hazard Study Conditions of Consent, B4A Expansion Project Vopak Site B, Port Botany dated 29 October 2021. d) responses provided relating to B9.					
G18 SSD	SSD	В7	Post-startup	POST-STARTUP COMPLIANCE REPORT Three months after the commencement of operation of the first asset or system covered by this consent, the Applicant shall submit to the Secretary, a report verifying that: (a) the Emergency Plan required under Condition B5(a) is effectively in place and that at least one emergency exercise has been conducted; and	Operation	Record	 29/3/2022: Record sighted:: Vopak (1 February 2022) Post Start-up Compliance Report, Status Report, B4A Expansion Project Vopak Site B, Port Botany. Vopak provided evidence of the submission via view of the online portal submission. 					
				(b) the Safety Management System required under Condition B5(b) has been fully implemented and that records required by the system are being kept.	Operation	Record	29/3/2022: Record sighted:: - Vopak (1 February 2022) Post Start-up Compliance Report, Status Report, B4A Expansion Project Vopak Site B, Port Botany. - Vopak provided access to Enablon (online portal) to view H&S records.					

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	itus
		/ OEMP Section				/Observation		Recommendations	Compliant	Non- Compliant	Not Triggered
G19	SSD	В8		HAZARD AUDIT Twelve months after the commencement of operation of the Development and every three years thereafter, or at such intervals as the Secretary may agree, the Applicant shall carry out a comprehensive Hazard Audit of the Development and within one month of each audit submit a report to the Secretary. The audits shall be carried out at the Applicant's expense by a qualified person or team, independent of the Development, approved by the Secretary prior to commencement of each audit. Hazard Audits shall be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 5, 'Hazard Audit Guidelines' (HIPAP No. 5). The audit reports shall, in addition to the requirements provided in HIPAP No 5: (a) verify implementation of all actions proposed by the Applicant in response to the recommendations from the Buncefield incident investigation report as contained in the Appendix A of PHA;	Operation	Record	29/3/2022: This item is not yet triggered as the operation commencement has not reached 1 year.				
				(b) verify that an inspection, testing and preventative maintenance program has been developed, implemented and maintained to ensure the reliability and availability of key safety critical equipment;	Operation	Record	 29/3/2022: Record sighted: ALS (22 February 2022) Vibration Analysis Report for Vopak Terminals - Port Botany, NSW, which provides maintenance recommendations. Based on the information by Vopak (MB), any recommendations will require preparation of WOOI (work order out of inspection), which will require action. This set of recommendations have not yet been actioned as they were recent. ME2 Maintenance Management System, which provides records of maintenance. The system provides a prompt where maintenance is required. Maintenance record for level switch high on 16/3/2022, which did not encounter any issue. 				
				(c) confirm that the throughput and storage quantities of potentially hazardous materials are consistent with the PHA; and	Operation	Record	 29/3/2022: Record sighted: The PHA provides S75W throughput (7.8 billion litres/year). Based on information by Vopak Sydney Execution KPI 2021, a throughput of 3.86 billion litres/year. 				
				 (d) verify implementation of any measures arising from the reports submitted in respect of Conditions B1 to B7 of this Schedule. The audit report shall be accompanied by a program for the implementation of all recommendations made in the audit report. If the Applicant intends to defer the implementation of a recommendation, reasons must be documented. This audit report shall also be submitted to SafeWork NSW. 	Operation	Record	29/3/2022: This item is not yet triggered as the operation commencement has not reached 1 year.				
G20	SSD	В9		The Applicant shall comply with all reasonable requirements of the Secretary in respect of the implementation of any measures arising from the reports submitted in respect of Conditions B1 to B8 of this Schedule inclusive, within such time as the Secretary may agree.	Construction/ Operation	Record	The available information did not indicate any requirements from the Secretary that has not been implemented by Vopak, however noting that there are non-compliances to conditions B4 and B5 due to the absence of records indicating the Secretary's approval of the associated documents.				
G21	SSD	B10	Air Quality Discharges	The Applicant shall install and operate equipment to ensure the Development complies with all load limits, air quality criteria and air quality monitoring requirements as specified in the EPL for the site.	Construction/ Operation	Record	There are no load limits, air quality criteria or air quality monitoring for site B4A.				
G22	SSD	B11	Odour	The Applicant shall ensure the Development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).	Construction/ Operation	Record, observation	 29/3/2022: Interview: No complaint regarding odour has been identified. 29/3/2022: Observation: The Auditor observed chemical odour during the site observation at the boundary with Quenos, which appeared to be associated with Quenos operation. 29/3/2022: Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. No incident relating to odour was recorded. 				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations		mpliance Sta	
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G23	SSD	B12	Dust Management	The Applicant shall carry out all reasonable and feasible measures to minimise dust generated by the Development.		Record, observation	 29/3/2022: Observation: The Auditor did not observe any unacceptable dust during site visit. 29/3/2022: Record sighted: Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. No incident relating to dust was recorded. 				
G24	SSD	B13	Dust Management	During construction and operation of the Development, the Applicant shall ensure that: (a) all vehicles on-site do not exceed a speed limit of 20 kilometres per hour;		Record, observation	29/3/2022: Observation: - No vehicle was observed entering or leaving the site at the time of Audit. 19/4/2022: Record sighted: - Photograph of 15km/hr speed limit signage at B4A front gate				
				 (b) all loaded vehicles entering or leaving the site have their loads covered; (c) all loaded vehicles leaving the site are cleaned of dirt, sand and other materials before they leave the site, to avoid tracking these materials on public roads; and (d) all heavy vehicles on-site do not use engine brakes. 	Operation Construction/ Operation Construction/	Record, observation Record, observation Record, observation	29/3/2022: Observation: - No vehicle was observed entering or leaving the site at the time of Audit. 29/3/2022: Observation: - No vehicle was observed entering or leaving the site at the time of Audit. 29/3/2022: Observation: - No vehicle was observed entering or leaving the site at the time of Audit.		-		
G25	SSD B1		Operational Air Quality Management Plan	Prior to the commencement of operation, the Applicant shall prepare an Air Quality Management Plan (AQMP) for the Development, to the satisfaction of the Secretary. The AQMP shall form part of the OEMP in Condition C4 and be prepared in accordance with Condition C7 and any other requirements of the EPL for the site. The AQMP shall: (a) be prepared in consultation with the EPA;	Operation	Record	29/3/2022: Record sighted: - EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan.	This item is considered non-compliant due to the absence of the Secretary's approval of AQMP and evidence of consultation with EPA. Recommendation: If not yet obtained, approval from the Secretary on the AQMP should be obtained.			
				 (b) detail and rank all emissions from all sources of the Development, including particulate and odour emissions; (c) describe a program that is capable of evaluating the performance of the operation and determining compliance with key performance indicators; 	Operation Operation	Record Record	29/3/2022: Record sighted: - EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan (Section 3). 29/3/2022: Record sighted: - EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan (Section 4).		-		
			Operational Air Quality Management Plan	 (d) nominate the following for each of the proposed controls: (i) key performance indicator; (ii) monitoring method; (iii) location, frequency and duration of monitoring; (iv) record keeping; (e) identify the control measures that will be implemented for each emission source; and 		Record Record	 (Section 4). 29/3/2022: Record sighted: EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan (Section 6). 29/3/2022: Record sighted: EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan 		-		
				(f) includes a complaints register, response procedures and compliance monitoring.	Operation	Record	(Section 5). 29/3/2022: Record sighted: - EMM (June 2021) Vopak Port Botany Project: Site B Expansion Stage B4A Air Quality Management Plan (Section 6).				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G26	SSD	B15	Post-commissioning Air Emissions Verification	Within six months of the commencement of operation, the Applicant shall prepare a post- commissioning air emissions report to verify all major emission sources identified in the RTS associated with the development. The report shall: (a) be prepared by a suitably qualified and independent expert;	Operation	Record	This item is not yet triggered at the time of Audit. 29/3/2022: Vopak (AM) states this has been scheduled.				
				(b) be submitted to the EPA;	Operation	Record	-				
				(c) include post commissioning sampling and speciation of VOC emissions from the storage tanks for the fuel types assessed in the RTS. Sampling is to be undertaken in accordance with the requirements specified in Approved Methods for the Sampling and Analysis of Air Pollutants in NSW;		Record					
				(d) include records of the operating capacity and process rate of the activity at the time of sampling; and	Operation	Record					
				(e) include a comparison and analysis of the results of the post commissioning sampling with the modelled emissions in the RTS and demonstrate compliance with the ground level criteria in the Approved Methods for the Sampling and Analysis of Air Pollutants in NSW;	Operation	Record					
				(f) detail additional measures to be implemented to further reduce emissions.	Operation	Record	1				
G27	SSD	B16	Site Access, Internal Roads and Parking	The Applicant shall ensure: (a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the Development are constructed and maintained in accordance with the latest versions of AS 2890.1 and AS 2890.2;	Construction/ Operation	Record		This item is considered non-compliant as evidence has not been provided. Recommendation: If not yet obtained, a certificate for compliance is obtained from a suitably qualified consultant.			
				(b) the sweep path of the longest vehicle entering and exiting the subject site, as well as manoeuvrability through the site, is in accordance with AUSTROADS;	Construction/ Operation	Record		This item is considered non-compliant as evidence has not been provided. Recommendation: If not yet obtained, a certificate for compliance is obtained from a suitably qualified consultant.			
				(c) the Development does not result in any vehicles queuing on the public road network;	Construction/ Operation	Record	29/3/2022: Record sighted: - Vopak provided access to view "Enablon", the site complaint / incident register. While evidence of this could not be reviewed at the time of the Audit as the construction has been completed, review of the Enablon complaint / incident register did not indicate any complaint relating to this.				
				(d) all loading and unloading of materials is carried out on site; and	Construction/ Operation	Record	29/3/2022: Record sighted: - Vopak provided access to view "Enablon", the site complaint / incident register. While evidence of this could not be reviewed at the time of the Audit as the construction has been completed, review of the Enablon complaint / incident register did not indicate any complaint relating to this.				
				(e) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times.	Construction/ Operation	Record	29/3/2022: Record sighted: - Vopak provided access to view "Enablon", the site complaint / incident register. While evidence of this could not be reviewed at the time of the Audit as the construction has been completed, review of the Enablon complaint / incident register did not indicate any complaint relating to this.				
G28	SSD	B17	Culvert Works on Friendship Road	The Applicant shall ensure that any works on Friendship Road is undertaken in accordance with NSW Ports requirements.	Construction	Record	 29/3/2022: Interview: No work was conducted on Friendship Road. A tunnel was built under the road for construction of the pipe. Pipeline Licence - Port Botany Operations and Vopak Terminals Sydney Pty Ltd. A signed copy by Vopak was sighted. This copy was not signed yet by NSW Ports. Based on information by Vopak, hardcopy is maintained for the final signed copy. 				

Geosyntec ID		SSD/EPL	Item	Condition	Audit Phase	-	Evidence Collected / Observations	Independent Audit Findings and	Co	mpliance Sta	itus
		Condition / OEMP				review/Record /Observation		Recommendations	Compliant	Non-	Not
		Section							compliant	Non- Compliant	
G29	SSD	B18	Construction Traffic Management Plan	Prior to the commencement of construction, the Applicant shall prepare a Construction Traffic Management Plan (CTMP) for the Development in	Pre- Construction	Record	29/3/2022: Record sighted: - Vopak (2020) B4A Expansion Project Construction				
				consultation with NSW Ports, Council and the RMS, and to the satisfaction of	Construction		Traffic Management Plan Greenfield (CTMP)				
				the Secretary. The plan shall form part of the CEMP Condition C1 and be			- NSW DPIE (2 March 2020) Vopak Bulk Liquids Facility -				
				prepared in accordance with Condition C7. The TMP shall: (a) detail the measures that would be implemented to ensure road safety,			B4 (SSD 7000) Construction Environmental Management Plan - Stage 1 (B4A).				
			network efficiency and access during construction;			- NSW DPIE (10 February 2020) Vopak Bulk Liquids					
						Facility - B4 (SSD 7000) Construction Traffic					
						Management Plan - Stage 1 (B4A) stating that a separate CTMP is required if work is required on					
						Friendship Road/Simblist Road intersection.					
							a) road safety measures detailed				
						14/4/2022: Record sighted:					
						- Email correspondence with Council (9 December 2019)					
							demonstrating consultation regarding CTMP - DPIE Letter (10 February 2020) Department agreement				
							to staged submission for CTMP				
				(b) include the traffic controls to be implemented at the Friendship Road/Simbli		Record	Record sighted (29 March 2022):		-		
				Road intersection during the culvert construction works on Friendship Road;	Construction		Vopak (2020) CTMP, however noting that specific culvert				
							construction at Simblist and Friendship Rd intersection not specifically addressed				
							29/3/2022: Interview: Vopak (AC) states this item was not required as a culvert				
							was no longer required.				
				(c) contain a drivers code of conduct to:	Pre-	Record	29/3/2022: Record sighted::		-		
				 (i) minimise the impacts of construction on the local and regional road network; and 	Construction		Vopak (2020) CTMP c) includes code of conduct				
				(ii) minimise conflicts with other road users;			,				
				(d) detail construction vehicle routes, number of trucks, access and parking arrangements; and	Pre- Construction	Record	29/3/2022: Record sighted:: Vopak (2020) CTMP				
					Construction		d) relevant details included				
				(e) if necessary, detail procedures for notifying any nearby residents of any	Pre-	Record	29/3/2022: Record sighted::		-		
				potential disruptions to routes.	Construction		Vopak (2020) CTMP, noting that notification procedures for nearby residents is not provided.				
							29/3/2022: Interview: No disruptive work was conducted on the road, noting				
							that culvert did not end up being constructed.				
G30	SSD	B19	Hours of Work	The Applicant shall comply with the construction and operation hours in Table	1, Construction/	Record	29/3/2022: Interview:	This item is considered as non-compliant as			
				unless otherwise agreed by the Secretary.	Operation		- There is no limit for operation.	record of work hours during the construction has			
				Table 1: Hours of Work Activity Day Hours				not been provided. It is noted that based on the information provided by Vopak, there was no			
				Monday - Friday 7 am to 6 pm Construction Saturday 8 am to 1 pm				complaint during construction regarding out of			
				Sunday & Public Holidays Nil				hours work.			
				Operation Monday to Sunday 24 hours							
G31	SSD	B20	Hours of Work	Construction outside of the hours identified in Condition B19, may be	Construction	Record		This item is considered as non-compliant as			
				undertaken in the following circumstances: (a) works that are inaudible at the nearest sensitive receiver;				record of work hours during the construction has not been provided. It is noted that based on the			
				(b) works agreed to in writing by the EPA or Secretary;	Construction	Record	4	information provided by Vopak, there was no			
				 (c) for the delivery of materials required outside these hours by the NSW Polic 		Record	1	complaint during construction regarding out of hours work.			
				or other authorities for safety reasons; or			4				
				(d) where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.		Record					
G32	SSD	B21	Construction Vibration	The Applicant shall aim to achieve the following construction vibration goals: (a) for structural damage, the vibration limits set out in the German Standard	Construction	Record	29/3/2022: Interview: - Vopak stated that no vibration complaint has been	This item is considered non-compliant as there is no evidence provided that vibration goals were			
				DIN 4150-3: Structural Vibration – effects of vibration on structures; and			identified during construction.	achieved during construction.			
				(b) for human exposure, the acceptable vibration values set out in the	Construction	Record					
				Environmental Noise Management Assessing Vibration: A technical Guideline (Department of Environment and Conservation, 2006)			27/4/2022: Record sighted: - Email from Freyssinet to Vopak dated 19 Nov 2020				
							stating that vibration monitoring is being setup on 20 Nov				
							2020. - Freyssinet Third Party Supervision Rates to conduct				
							vibration monitoring.				
										1	
							- Freysinnet Cost Proposal - Vibration Monitoring Services, to conduct vibration monitoring compliant to				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations		mpliance Sta	
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G33	SSD	B22	Noise Mitigation	The Applicant shall implement best practice, including all reasonable and feasible noise management and mitigation measures to prevent and minimise operational, low frequency and traffic noise generated by the Development.	Construction/ Operation	Record	29/3/2022: Interview: - Vopak stated that no noise complaint has been identified. 29/3/2022: Observation:				
							- No unacceptable noise was observed.				1
G34	SSD	B23	Water Licences	The Applicant is required to obtain the necessary water licences for the Development under the Water Act 1912 and/or the Water Management Act 2000. If the development intercepts the groundwater table, a hydrogeological assessment shall be prepared to support any groundwater dewatering licence application.	Construction/ Operation	Record	29/3/2022: Interview: - No dewatering was conducted during construction.				
				Note: Licences are required for groundwater bores, excavations that may intercept groundwater, dewatering activities and extraction or interception of surface water.							
G35	SSD	B24	Surface Water Discharge Limits	The Applicant shall ensure that all licensed surface water discharges from the site comply with the discharge limits (volume and quality) set for the Development in any EPL or relevant provisions of the POEO Act.	Construction/ Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G36	SSD	B25	Construction Soil and Water Management	Soil and water management measures consistent with Managing Urban Stormwater - Soils and Construction Vol. 1 (Landcom, 2004) (the Blue Book) shall be employed during the construction of the Development to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters		Record, observation	 29/3/2022: Record sighted: Video provided during construction (July 2020) indicated the southern part of the site was kept at lower elevation to ensure water and sediment flowed southwards towards internal sumps. Evidence of sediment socks were observed. Photo provided on September 2020 indicated there was a wheel wash during the construction. Photo provided on 11 December 2020 indicated there was sediment fencing. 				
G37	SSD	B26	Bunding and Storage of Liquids	The Applicant shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling Liquids: Environmental Protection – Participants Handbook.	Construction/ Operation	Record	 29/03/2022: Observation: Chemicals and fuels were observed to be bunded. 29/3/2022: Interview: Vopak (AC) states that the only chemical used during construction was diesel tank placed on a bund. 				
G38	SSD	B27	Water Management Plan	Prior to commencement of operation, the Applicant shall prepare a Water Management Plan (WMP) to the satisfaction of the Secretary. The WMP shall form part of the OEMP in Condition C4 and be prepared in accordance with Condition C7. The WMP shall: (a) be prepared in consultation with the EPA;		Record	14/04/2022: Record sighed: - Vopak (23 June 2021) Water Management Plan (WMP) Vopak Site B4A. - Email correspondence with EPA regarding WMP (12, 23 and 24 August 2021) regarding a licence variation which related to some water management aspects e.g. monitoring wells etc				
				(b) include mitigation measures for managing surface water, but not limited to the Management and Mitigation Measures in Appendix B; and	Operation	Record	14/04/2022: Record sighed: - WMP (23 June 2021), including surface water management measures / monitoring in Sections 4 and 5				
				 (c) contain a Surface Water Management Plan that: describes the water management systems on site, including plans of the stormwater system and oily/water wastewater system; and demonstrates compliance with any requirements of the EPL with respect to stormwater and wastewater management. 	Operation	Record	14/04/2022: Record sighed: - WMP (23 June 2021), including surface water management measures / monitoring (just not referred to as 'surface water management plan') in Sections 4 and 5, which includes oily water systems ('slops') plans and demonstrate compliance with the EPL				
G39	SSD	B28	Waste Management - Classification	The Applicant shall ensure that any waste generated on the site is classified in accordance with the EPA's Waste Classification Guidelines (DECCW, 2009) or any superseding document and disposed of to a facility that may lawfully accept the waste.	Construction/ Operation	Record	 19/4/2022: Record sighted: Email correspondence from Vopak (14 April 2022) stating "There was no contaminated waste identified for disposal and therefore no waste tracking dockets required". PRM (March 2020) Baseline Contamination Assessment 39 Friendship Road, Port Botany NSW Vopak Terminals Australia Pty Ltd P034521.001 Version B 				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	atus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G40	SSD	B29	Waste Management	For the life of the Development, the Applicant shall: (a) implement all reasonable and feasible measures to minimise the waste generated on site by the Development; and	Construction/ Operation	Record	19/4/2022: Record sighted: - Email correspondence from Vopak (14 April 2022) stating "There was no contaminated waste identified for disposal and therefore no waste tracking dockets required".				
				(b) ensure that any waste generated by the Development is appropriately stored, handled and disposed of.	Construction/ Operation	Record	19/4/2022: Record sighted: - Email correspondence from Vopak (14 April 2022) stating "There was no contaminated waste identified for disposal and therefore no waste tracking dockets required".				
G41	SSD	B30	External Lighting	All external lighting associated with the Development shall be mounted, screened, and directed in such a manner so as not to create a nuisance to the surrounding environment, properties and roadways. The lighting shall be the minimum level of illumination necessary and shall comply with Australian Standard AS4282 1997 – Control of the Obtrusive Effects of Outdoor Lighting.	Construction/ Operation	Record	29/3/2022: Interview: No complaints have been recorded on lighting.				
Part C Environ	mental Mana	gement, Rep	orting And Auditing								1
	SSD	C1	Construction Environmental Management Plan	The Applicant shall prepare a Construction Environmental Management Plan (CEMP) to the satisfaction of the Secretary. The Plan shall: (a) be approved by the Secretary prior to the commencement of construction;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield - NSW DPIE (2 March 2020) Vopak Bulk Liquids Facility B4 (SSD 7000) Construction Environmental Management Plan - Stage 1 (B4A).				
				(b) be prepared by a suitably qualified and experienced person;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield				
				(c) identify the statutory approvals that apply to the Development;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 6.1).				
				(d) outline all environmental management practices and procedures to be followed during construction works associated with the Development;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 10).				
				(e) describe all activities to be undertaken on the site during construction of the Development, including a clear indication of construction stages;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 5).				
				(f) detail how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified adverse environmental impacts;	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 10).				
				(g) describe the roles and responsibilities for all relevant employees involved in construction works associated with the Development; and	Pre- Construction	Record	29/3/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 8 & 9).				
				(h) include the management plans under Condition C2 of this consent.	Pre- Construction	Record	 29/3/2022: Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 6.1). This plan provides an overview of environmental management plan by Vopak. It is noted that while the management plans listed in Condition C2 have not been provided to the Auditor for sighting, EPIE letter (2 March 2020) states that conditions C1, C2 and C3 have been met. Therefore, the Auditor assumes that these plans have been appropriately prepared. 				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	tus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G43	SSD	C2	Construction Environmental Management Plan	As part of the CEMP for the Development, required under condition C1 of this consent, the Applicant shall include the following: (a) Dust Management;	Pre- Construction	Record	19/4/2022: - Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield (Section 6.1). This plan provides an overview of environmental management plan by Vopak. Subplans are noted to not be included in appendices.				
				(b) Construction Traffic Management;	Pre- Construction	Record	It is noted that while the management plans listed in				
				(c) Noise and Vibration Management;	Pre- Construction	Record	Condition C2 have not been provided to the Auditor for sighting, EPIE letter (2 March 2020) states that				
				(d) Construction Soil and Water Management;	Pre- Construction	Record	conditions C1, C2 and C3 have been met. Therefore, the Auditor assumes that these plans have been				
				(e) Waste Management; and	Pre- Construction	Record	appropriately prepared.				
				(f) community consultation and complaints handling procedure.	Pre- Construction	Record	-				
G44	SSD	Сз	Construction Environmental Management Plan	The Applicant shall carry out the construction of the Development in accordance with the CEMP approved by the Secretary (and as revised and approved by the Secretary from time to time).	Construction	Record, observation	 29/3/2022: Record sighted: Video provided during construction (July 2020) indicated the southern part of the site was kept at lower elevation to ensure water and sediment flowed southwards towards internal sumps. Evidence of sediment socks were observed. Photo provided on September 2020 indicated there was a wheel wash during the construction. Photo provided on 11 December 2020 indicated there was sediment fencing. It is noted that while no documentation has been provided by the contractor to confirm compliance, the photographic and video evidence provided by Vopak did not indicate non-compliance. 				
G45	SSD	C4	Operational Environmental Management Plan	The Applicant shall prepare an Operational Environmental Management Plan (OEMP) for the Development to the satisfaction of the Secretary. The Plan shall: (a) be approved by the Secretary prior to the commencement of operation;	Operation	Record	 29/3/2022: Record sighted: Email from Major Projects on 2 July 2022 confirming receipt of the OEMP. Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A Comments from DPE on OEMP. Submission of responses to DPE comments sighted on Major Projects portal, and the status is "Assessment". 	This item is considered to be non-compliant as approval from DPE has not been provided on the OEMP. However, the Auditor notes that the OEMP was first lodged to DPIE on 2 July 2022 and Vopak has responded to DPE comments. Recommendation: Approval from Secretary on the OEMP is finalised.			
				(b) be prepared by a suitably qualified and experienced person;	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A				
				(c) outline the environmental impacts, environmental safeguards and management controls, monitoring measures and reporting measures of the Development;	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A (Section 5).				
				 (d) include the procedures that would be implemented to: (i) keep the local community and relevant agencies informed about the operation and environmental performance of the Development; (ii) receive, handle, respond to, and record complaints; (iii) resolve any disputes that may arise; (iv) respond to any non-compliance; and (v) respond to emergencies. 	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A (Section 6).				
G46	SSD	C5	Operational Environmental Management Plan	As part of the OEMP for the Development, required under Condition C4 of this consent, the Applicant shall include the following: (a) Air Quality;	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A, which includes Air Quality Management Plan.				
				(b) Soil and Water; and	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A, which includes Soil and Water Management Plan.				
				(c) Waste Management.	Operation	Record	29/3/2022: Record sighted: - Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A, which states that no routine waste is expected from site B4A (Section 5.2), noting Section 5.3 provides disposal of wastewater.				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	itus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G47	SSD	C6	Operational Environmental Management Plan	The Applicant shall operate the Development in accordance with the OEMP approved by the Secretary (and as revised and approved by the Secretary from time to time).	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the existing OEMP (8 December 2021) is currently implemented, but noting this is pending approval from DPE (see Item G45).				
G48	SSD	C7	Management Requirements	The Applicant shall ensure that the environmental management plans required under Condition C1 and C4 of this consent are prepared by a suitably qualified person or persons in accordance with best practice and include: (a) detailed baseline data; (b) a description of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures/criteria; and	Construction/ Operation Construction/ Operation		 29/3/2022: Vopak (11/2/2020) B4A Expansion Project Construction Environmental Management Plan Greenfield. Vopak (8 December 2021) Operational Environmental Management Plan, Vopak Site B and B4A. NSW DPIE (2 March 2020) Vopak Bulk Liquids Facility - B4 (SSD 7000) Construction Environmental 				
				 (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the Development or any management measures; (c) a description of the measures that would be implemented to comply with the 	Construction/	Record	Management Plan - Stage 1 (B4A).				
				 (d) a program to monitor and report on the: (i) impacts and environmental performance of the Development; (ii) effectiveness of any management measures (see (c) above); 	Operation Construction/ Operation		-				
				(e) a contingency plan to manage any unpredicted impacts and their consequences;	Construction/ Operation	Record					
				(f) a program to investigate and implement ways to improve the environmental performance of the Development over time;	Construction/ Operation	Record	-				
				 (g) a protocol for managing and reporting any: (i) incidents; (ii) complaints; (iii) non-compliances with statutory requirements; and (iv) exceedances of the impact assessment criteria and/or performance criteria; and 	Construction/ Operation	Record					
				(h) a protocol for periodic review of the plan.	Construction/ Operation						
G49	SSD	C8	Revision of Strategies, Plans and Programs	Within 3 months of: (a) an incident report submitted under Condition C9; (b) an audit submitted under Condition C11; or	Construction/ Operation Construction/		This item is not yet triggered as there is no incident report, audit or modification to the development consent yet.	Recommendation: The OEMP must be reviewed and revised (if required) following this Audit.			
				(c) a modification to the development consent. the Applicant shall review, and if necessary revise, the strategies, plans, and	Operation Construction/ Operation	Record	-				
				programs required under this consent. Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the Development.							
G50	SSD	C9	Incident Reporting	Upon detecting an exceedance of the limits/performance criteria in this consent or the occurrence of an incident that causes (or may cause) material harm to the environment, the Applicant shall immediately (or as soon as practical thereafter) notify the Secretary and other relevant agencies of the exceedance/incident. Within seven days of the date of the exceedance or incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the exceedance or incident, and such further reports as may be requested.	Construction/ Operation	Record	29/3/2022: Record sighted: No incident relating to exceedance of limits/performance criteria have occurred.				
G51	SSD	C10	Regular Reporting	The Applicant shall provide regular reporting on the environmental performance of the Development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Construction/ Operation	Record	This item is not yet triggered as monitoring has not occurred yet at the time of Audit.				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	tus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G52 5	SSD	C11	Independent Environmental Audit	Within 2 years of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the Development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;	Construction/ Operation	Record	 29/3/2022: Record sighted:: Vopak (12 November 2021) Self report - SSD7000 Part 3 Condition 11 on potential non-compliance on Condition C11. Letter from DPIE providing approval that the Audit can be conducted within 12 months of the commencement of construction. Vopak stated that construction commenced on 11 March 2020. DPE (8 February 2022) Vopak Bulk Liquids Facility (SSD-7000) Independent Audit Team Approval. 	This item is considered to be non-compliant as the Audit did not meet the required timing (which was meant to be by 11 March 2021). Impacts of access for Auditors to the site due to Covid restrictions was noted. Recommendation: Vopak to ensure that future audits are scheduled to meet the required Audit Schedule.			
				(b) include consultation with the relevant agencies;	Construction/ Operation	Record	Consultation with agencies are provided in the main audit report and in Appendix C of the audit report.				
				(c) assess the environmental performance of the Development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL(s) (including any assessment, plan or program required under these approvals);	Construction/ Operation	Record	This is provided in this audit table.				
				(d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and	Construction/ Operation	Record	This is provided in this audit table.				
				(e) recommend measures or actions to improve the environmental performance of the Development, and/or any strategy, plan or program required under this consent.	Construction/ Operation	Record	This is provided in this audit table.				
				Note: This audit team must be led by a suitably qualified auditor, and include relevant experts in any other fields specified by the Secretary.							
G53 \$	SSD	C12	Independent Environmental Audit	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.	Construction/ Operation	Record	The approval for the Audit team was provided by DP&E on 8 February 2022. The Final Audit Report was provided within 3 months of this date.				
G54 \$	SSD	C13	Access to Information	The Applicant shall make the following information publicly available on its website and keep the information up to date: (a) the EIS and RTS;	Operation	Record	19/4/2022: Record sighted: - Website viewed. EIS and RTS present.				
				(b) current statutory approvals for the Development;	Construction/ Operation	Record	19/4/2022: Record sighted: - Website viewed. Development consent and other approval documents present.				
				(c) approved strategies, plans or programs;	Construction/ Operation	Record	19/4/2022: Record sighted: - Website viewed. Approval for CEMP and TMP present.				
				(d) a complaints register, updated on an annual basis; and	Construction/ Operation	Record	19/4/2022: Record sighted: - Website viewed. Complaints register present.				
				(e) any other matter required by the Secretary.	Construction/ Operation	Record	19/4/2022: Record sighted: - Website viewed.				
				Note: This condition does not require any confidential information to be made available to the public							

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Cor	npliance Sta	tus
		/ OEMP Section				/Observation				Non- Compliant	Not Triggered
Environmenta	I Protection I	Licence 6007									
G55	EPL	A1.1	Administrative Conditions - What the licence authorises and regulates	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.	Operation	Record	see below				
				 Chemical storage - Chemical storage waste generation - > 100 T annual volume of waste generated or stored 	Operation	Record	29/3/2022: Interview: - Vopak (MM) states that B4A does not store chemical waste				
				 Petroleum products and fuel production - Petroleum products and fuel production - > 10000 - 200000 T annual production capacity 		Record	29/3/2022: Interview: - B4A storage facility only, no fuel production occurs onsite				
				- Chemical storage - Petroleum products storage - > 100000 kL storage capacity	Operation	Record	29/3/2022: Interview & Observation: - Vopak provide evidence of how storage capacity is recorded and maintained for the site. DT observed the control room systems that record this information				
				- Shipping in bulk - Shipping in bulk - > 500000 T of annual capacity to load and unload	Operation	Record	29/3/2022: Interview & Observation: - Vopak provide evidence of how storage capacity is recorded and maintained for the site. DT observed the control room systems that record this information				
G56	EPL	A2.1	Administrative Conditions - Premises or plant to which this licence applies	The licence applies to the following premises: VOPAK TERMINALS AUSTRALIA 20 AND 37 AND 49 FRIENDSHIP ROAD, PORT BOTANY NSW 2036 LOT 21 DP 1045324, LOT 10 DP 1126332, LOT 103 DP 1182871, LOT 20 DP 1272410 THE PREMISES INCLUDES: * VOPAK BITUMEN TERMINAL LOCATED AT B33, 49 FRIENDSHIP ROAD, PORT BOTANY; * SITE B4A LOCATED AT 37 FRIENDSHIP ROAD, PORT BOTANY; AND * SITE B, GATE B47, 20 FRIENDSHIP ROAD, PORT BOTANY.	Operation	Record	29/3/2022: Site visit was conducted by the Auditor, which confirmed the address.				
G57	EPL	A2.2	Administrative Conditions - Premises or plant to which this licence applies	The premises defined in condition A2.1 includes 'Infrastructure' owned by the licensee for the purpose of carrying out shipping in bulk activities from vessels moored at Bulk Liquids Berth 1 and Bulk Liquids Berth 2 at Port Botany. Note: For the purposes of this condition, 'Infrastructure' includes but is not limited to: - marine loading arms;	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) states that this is not part of B4A				
				 pipelines that run from the premises defined in Condition A2.1 to the Bulk Liquids Berths; hoses; and 	Operation Operation	Record, observation Record,	29/3/2022: Interview: - Vopak (MM) states that this is not part of B4A 29/3/2022: Interview:				
						observation	- Vopak (MM) states that this is not part of B4A				
				- hose connections.	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) states that this is not part of B4A				
G58	EPL	A3.1	Information supplied to the EPA	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and	·	Record	29/3/2022: Interview: - EPA has granted the licence - Licence variations present on EPA website (e.g. B4A) The Auditor reviews compliance of this item by reviewing other EPL conditions.				
				b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	Operation	Record	29/3/2022: Interview: - EPA has granted the licence - License variations present on EPA website (e.g. B4A)				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	tus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G59	EPL	P1.1	Water and	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point. EPA identification no.1: - Type of Monitoring Point: Discharge to air Air emission monitoring - Type of Discharge Point: Discharge to air Air emission monitoring - Location Description: Vapour Recovery Unit serving all road tanker loading bays labelled "A" on drawing number SD-41 titled "Fuel storage facility Port Botany, Sydney" submitted to the EPA with Licence Information Form dated 7 June 1999	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirm that the Vapour Recovery Unit is located outside of the B4A Site.				
			 EPA identification no.8: Type of Monitoring Point: Parameter monitoring of Temperature and Residence Time Type of Discharge Point: Location Description: Thermal Oxidiser for Bitumen Plant labelled as "Point 1" on drawing No.5522-81-DWG-0004 Rev 2 titled "Vopak Terminals Sydney Pty Limited B5 Bitumen Equipment Location Plan" dated 16/5/14. 	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirm that the Thermal Oxidiser is located outside of the B4A Site.					
				EPA identification no.9: - Type of Monitoring Point: Discharge to air Air emission monitoring - Type of Discharge Point: Discharge to air Air emission monitoring - Location Description: Vent Stack on Thermal Oxidiser labelled as "Point 4" on drawing No. 5522-81-DWG-0004 Rev 2 titled "Vopak Terminals Sydney Pty Limited B5 Bitumen Equipment Location Plan" dated 16/5/14.	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirm that the Vent Stack on the Thermal Oxidiser is located outside of the B4A Site.				
G60	EPL	P1.2	Water and Applications to Land - Location of monitoring/discharge points and areas	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.	Operation	Record	29/3/2022: Information contained in P1.3 below.				
G61	EPL	P1.3	Water and Applications to Land - Location of monitoring/discharge points and areas	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point. EPA identification no.2: - Type of Monitoring Point: Discharge to waters Effluent quality monitoring - Type of Discharge Point: Discharge to waters Effluent quality monitoring - Location Description: Discharge from the Stormwater Interceptor located at the south west of the site labelled "Authorised Discharge Point" on drawing No. SD- 41 titled "Fuel storage facility Port Botany" submitted to the EPA with Licence Information Form dated 7/6/99	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirms that the " Stormwater Interceptor" is located outside of the B4A Site.				
				EPA identification no.3: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: - Location Description: Groundwater monitoring well labelled "MW 1" on drawing titled "Proposed Additional Monitoring Well Location" faxed to the EPA on 13/12/99	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirms that MW1 is located outside of the B4A Site , and was constructed circa 20 years prior.				
				EPA identification no.4: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: - Location Description: Groundwater monitoring well labelled "MW 2" on drawing titled "Proposed Additional Monitoring Well Location" faxed to the EPA on 13/12/99		Record, observation	29/3/2022: Interview: - Vopak (MM) confirms that MW2 is located outside of the B4A Site and was constructed circa 20 years prior.				
				 EPA identification no.5: Type of Monitoring Point: Groundwater quality monitoring Type of Discharge Point: Location Description: Groundwater monitoring well labelled "MW 3" on drawing titled "Proposed Additional Monitoring Well Location" faxed to the EPA on 13/12/99 	Operation	Record, observation	29/3/2022: Interview: - Vopak confirmed that MW3 is located outside of the B4A Site and was constructed circa 20 years prior.				

Geosyntec ID	Document	SSD/EPL Condition / OEMP Section	ltem	Condition	Audit Phase	Pre- review/Record /Observation	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co Compliant	mpliance Sta Non- Compliant	Not
G61	EPL	P1.3	Discharges to Air and Water and Applications to Land - Location of monitoring/discharge points and areas	 EPA identification no.6: Type of Monitoring Point: Groundwater quality monitoring Type of Discharge Point: Location Description: Groundwater monitoring well labelled "MW 4" on drawing titled "Proposed Additional Monitoring Well Location" faxed to the EPA on 13/12/99 	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirm that MW4 is located outside of the B4A Site and was constructed circa 20 years prior.				
				EPA identification no.7: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: - Location Description: Groundwater monitoring well labelled "MW 5" on drawing titled "Proposed Additional Monitoring Well Location" faxed to the EPA on 13/12/99	Operation	Record, observation	29/3/2022: Interview: - Vopak (MM) confirms that MW5 is located outside of the B4A Site and was constructed circa 20 years prior.				
				EPA identification no.10: - Type of Monitoring Point: Surface Water Discharge Point - Type of Discharge Point: Surface Water Discharge Point - Location Description: Stormwater discharge from the Final Stormwater Pit Discharge at the B4A terminal labelled "Point 10" on drawing No.240503-CV- LAY-2701 titled 'Drainage Layout Plan', dated January 2020, EPA reference DOC21/570043	Operation	Record, observation	 29/3/2022: Interview : Vopak (MM) confirms that Point 10 as located on the referenced drawing is signed for routine sample collection. 19/4/2022: Record sighted: Photograph showing location of monitoring point 10 signage. 				
				EPA identification no.11: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: Groundwater quality monitoring - Location Description: Groundwater monitoring well at the B4A terminal labelled "MB01" on drawing titled "Proposed monitoring bore locations", prepared by EMM Consulting Pty Limited, EPA reference DOC21/570043	Operation	Record, observation	29/3/2022: Record: - PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required				
				 EPA identification no.12: Type of Monitoring Point: Groundwater quality monitoring Type of Discharge Point: Groundwater quality monitoring Location Description: Groundwater monitoring well at the B4A terminal labelled "MB02" on drawing titled "Proposed monitoring bore locations", prepared by EMM Consulting Pty Limited, EPA reference DOC21/570043 	Operation	Record, observation	29/3/2022: Record: - PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required				
				 EPA identification no.13: Type of Monitoring Point: Groundwater quality monitoring Type of Discharge Point: Groundwater quality monitoring Location Description: Groundwater monitoring well at the B4A terminal labelled "MB03" on drawing titled "Proposed monitoring bore locations", prepared by EMM Consulting Pty Limited, EPA reference DOC21/570043 	Operation	Record, observation	29/3/2022: Record: - PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required				
				EPA identification no.14: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: Groundwater quality monitoring - Location Description: Groundwater monitoring well at the B4A terminal labelled "MB04" on drawing titled "Proposed monitoring bore locations", prepared by EMM Consulting Pty Limited, EPA reference DOC21/570043	Operation	Record, observation	29/3/2022: Record: - PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required				
				EPA identification no.15: - Type of Monitoring Point: Groundwater quality monitoring - Type of Discharge Point: Groundwater quality monitoring - Location Description: Groundwater monitoring well at the B4A terminal labelled "MB05" on drawing titled "Proposed monitoring bore locations", prepared by EMM Consulting Pty Limited, EPA reference DOC21/570043	Operation	Record, observation	29/3/2022: Record: - PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required				

Geosyntec ID	Document	SSD/EPL Condition / OEMP Section	ltem	Condition	Audit Phase	Pre- review/Record /Observation	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Compliance Status		
										Non- Compliant	Not Triggered
G61	EPL	P1.3	Discharges to Air and Water and Applications to Land - Location of monitoring/discharge points and areas	EPA identification no.16: - Type of Monitoring Point: Surface Water Discharge Point - Type of Discharge Point: Surface Water Discharge Point - Location Description: Stormwater discharge from Surface Drain Discharge at the B4A terminal labelled "Point 16" on drawing No. 240503-CV-LAY-2701 titled 'Drainage Layout Plan', dated January 2020, EPA reference DOC21/570043	Operation	Record, observation	 29/3/2022: Interview: No monitoring has occurred for this point. Based on information provided by Vopak (MM), the water discharges through a drainage line through to NSW Ports land and their sewage system at this point. Sampling at this point is considered not possible. Records sighted: Email Vopak:NSW Ports (23 & 24 Feb 2021), stating that if Vopak limits the discharge to 5L/Sec this connection is approved. 19/4/2022: Record sighted: Photograph showing monitoring point 16 is inaccessible in its current state. Email from NSW EPA dated 8 October 2021 recognising point 16 is unable to be sampled and noting that licence variation will need to be submitted to remove the need for sampling at this location. 	This item is considered non-compliant as sampling has not been conducted, however it is noted that this monitoring point is currently inaccessible. The Auditor has sighted an email from NSW EPA acknowledging this issue on 8 October 2021, which also recommended Vopak to submit a licence variation to remove the need for monitoring. Recommendation: As recommended by the NSW EPA, application to remove monitoring at this location from the EPL should be submitted.			
G62	EPL	L1.1	Limit Conditions - Pollution of waters	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.	Operation	Record	29/3/2022: Interview & Record sighted: - Vopak is ISO14001 accredited (documentation sighted) , and apply the POEO Act in their IMS.				
G63	EPL	L2.1	Limit Conditions - Load limits	The actual load of an assessable pollutant discharged from the premises during the reporting period must not exceed the load limit specified for the assessable pollutant in the table below.	Operation	Record	29/3/2022: Interview: - Vopak stated commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G64	EPL	L2.2	Limit Conditions - Load limits	The actual load of an assessable pollutant must be calculated in accordance with the relevant load calculation protocol. Assessable Pollutant Load limit (kg) Arsenic (Air) Benzene (Air)1500.00 Benzo(a)pyrene (equivalent) (Air) BOD (Estuarine Water) Fine Particulates (Air) Hydrogen Sulfide (Air) Lead (Air) Mercury (Air) Nitrogen Oxides - Summer (Air) Nitrogen Oxides (Air) Oil and Grease (Estuarine Water) Sulfur Oxides (Air) Total PAHs (Estuarine Water) Total Phenolics (Estuarine Water) Total suspended solids (Estuarine Water) Volatile organic compounds - Summer (Air) Volatile organic compounds (Air)125000.00 Note: An assessable pollutant is a pollutant which affects the licence fee payable for the licence.		Record	29/3/2022: Interview: - Vopak stated commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G65	EPL	L3.1	Limit Conditions - Concentration limits	For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	Operation	Record	29/3/2022: Record sighted: - Records of sample discharge concentrations viewed met the requirements. - To date no exceedance has been reported.				
G66	EPL	L3.2	Limit Conditions - Concentration limits	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Operation	Record	29/3/2022: Record sighted: - Records of sample discharge concentrations viewed met the requirements. - To date no exceedance has been reported.				
G67	EPL	L3.3	Limit Conditions - Concentration limits	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.	Operation	Record	29/3/2022: Record sighted: - Records of sample discharge concentrations viewed met the requirements. - To date no exceedance has been reported.				

Geosyntec ID	Document	SSD/EPL Condition / OEMP Section	Item	Condition	Audit Phase	Pre- review/Record /Observation	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Compliance Status		
										Non- Compliant	Not Triggered
G68	EPL	L3.4	Limit Conditions - Concentration limits	Air Concentration Limits POINT 1 Pollutant Units of measure 100 percentile concentration limit Reference conditions Oxygen correction Averaging period POINT 9 Pollutant Units of measure 100 percentile concentration limit Reference conditions Oxygen correction Averaging period Nitrogen milligrams per cubic organic 350 metre Oxygen conditions Averaging period Volatile milligrams per cubic organic 40 metre 40	Operation	Record	29/3/2022: Interview: Vopak confirmed that the Vapour Recovery Unit and Thermal Oxidiser are located outside of the B4A Site.				
G69	EPL	L3.5	Limit Conditions - Concentration limits	The Air Concentration Limits for Point 9 in Condition L3.4 only apply when the Vapour Control System is running to the Thermal Oxidiser. Note: For the purpose of the Table above 'Measure 1' means where organic vapours is recovered, the total concentration of unrecovered vapour emitted to the atmosphere during any period of four hours does not exceed 110 milligrams per litre of volatile organic liquid passing out of the plant during that period.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site.				
G70	EPL	L3.6	Limit Conditions - Concentration limits	Water and/or Land Concentration Limits POINT 2,10,16 Pollutant Units of Measure 50 percentile concentration limit 3DGM concentration limit 100 percentile concentration limit BOD milligrams per litre 20 Oil and Grease milligrams per litre 10 PH pH - 6.5-8.5 Total solids milligrams per litre 30	Operation	Record	 29/3/2022: Interview & Observation: Envirolab certificate of analysis 289791 dated 25/2/2022 was viewed presenting sampling at Point 10 Point 2: located outside of B4A. Point 16: not sampled. Point 16 is located on B4A, however discharges to NSW Ports Stormwater System (under Friendship Road), as agreed with NSW Ports. 19/4/2022: Record sighted: Photograph showing monitoring point 16 is inaccessible in its current state. See Item G61 for recommendation for this sampling point. 	This item is considered compliant as available results from Point 10 meet concentration limits. See Item G61 for recommendation for this sampling point.			
G71	EPL	L4.1	Volume and mass limits	For each discharge point or utilisation area specified below (by a point number), the volume/mass of: a) liquids discharged to water; or; b) solids or liquids applied to the area; must not exceed the volume/mass limit specified for that discharge point or area. Point Unit of Measure Volume/Mass Limit 2 kilolitres per day 5300	Operation	Record	29/3/2022: Interview: - Vopak confirmed that Point 2 is located outside of the B4A Site.				
G72	EPL	L5.1	Waste	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 titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. 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. 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. 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. This condition does not limit any other conditions in this licence. Code Waste NA General or Specific Protection of the Pro	Operation	Record	29/3/2022: Interview & Observation: - Vopak confirmed that no wastes are imported onto the premises B4A.				

Geosyntec ID		SSD/EPL Condition / OEMP Section	ltem	Condition	Audit Phase	Pre- review/Record /Observation	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non- Compliant	Not Triggered
G73	EPL	L6.1	Other limit conditions	For each monitoring/ discharge point or utilisation area specified in the tables below (by point number), the parameter must be equal to or greater than the lower limits specified for that parameter in that table. Parameter Point Number Units of Measure Lower Limit Averaging Period Residence Time 8 Seconds 0.5 Instantaneous Temperature 8 Degrees Celsius 760 Instantaneous	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site				
G74	EPL	L6.2	Other limit conditions	The Limits for Point 8 in Condition L6.1 only apply when the Vapour Control System is running to the Thermal Oxidiser.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Recovery Unit and Thermal Oxidiser are located outside of the B4A Site				
G75	EPL	01.1	Operating Conditions - Activities must be carried out in a competent manner	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and	Operation	Observation	29/3/2022: Observation: - Site observation indicated this condition has been met.				
				b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Operation	Observation	 29/3/2022: Observation & Interview: Vopak engineer (MB & AJ) explained the operational process, indicating: All tanks were bunded. Any stormwater is collected in bund is processed in oil water separator and settling tank, and returned to the bunds. Water is only released if there is too much water. Products carried from Site B4A through pipe line in B1 area for distribution to other tanks (B1 is outside the boundary of the Audit). Site observation indicated this condition has been met. No evidence of contamination was observed. 				
G76	EPL	02.1	- Maintenance of	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and	Operation	Record	 29/3/2022: Interview & Observation: Vopak use the Infor "ME2" computerised maintenance system to assess plant and equipment operations. The system was sighted during the audit. Terminal operators are trained to record maintenance requirements in ME2 which is then processed and actioned by maintenance department (where required). Preventative and Corrective maintenance is managed in this system. ME2 Maintenance Management System, which provides records of maintenance. The system provides a prompt where maintenance is required. Maintenance record for level switch high on 16/3/2022, which did not encounter any issue. 				
				b) must be operated in a proper and efficient manner.	Operation	Record, observation	 29/3/2022: Interview & Observation: Vopak use the Infor "ME2" computerised maintenance system to assess plant and equipment operations. Terminal operators are trained to record maintenance requirements in ME2 which is then processed and actioned by maintenance department (where required). Preventative and Corrective maintenance is managed in this system. 				
G77	EPL	O3.1	Processes and management	The licensee must ensure that any liquid and/or non liquid waste generated and/or stored at the premises is assessed and classified in accordance with the EPA Waste Classification Guidelines as in force from time to time.	Operation	Record	29/3/2022: Record sighted: - Cleanaway (24/3/2022) Waste Data Form for slops. 29/3/2022: Interview: - No other waste reported onsite.				
G78	EPL	03.2	Processes and management	The licensee must ensure that waste identified for recycling is stored separately from other waste.		Record, observation	29/3/2022: Record sighted: - Cleanaway (24/3/2022) Waste Data Form for slops. 29/3/2022: Interview: - No other waste reported onsite.				
Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	tus
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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G79	EPL	O4.1	Other operating conditions	The licensee must operate the Vapour Control System (VCS) and Thermal Oxidiser (TO) in accordance with the procedures outlined in the document "Bitumen Odour Management Procedure OPS001E Rev 2" dated 12/2/16, or any subsequent revision of the document. If the licensee undertakes any revision of the "Bitumen Odour Management Procedure" that involves a change to the operating times, modes or conditions of the VCS or TO, then the licensee: a) must provide the proposed revision of the "Bitumen Odour Management Procedure" to the EPA for comment; and	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Control System and Thermal Oxidiser are located outside of the B4A Site				
				b) must not proceed with the implementation of the revised "Bitumen Odour Management Procedure" until a formal written response has been received from the EPA and all reasonable comments from the EPA have been included in the revised "Bitumen Odour Management Procedure".	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Control System and Thermal Oxidiser are located outside of the B4A Site				
G80	EPL	M1.1	Monitoring and Recording Conditions - 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.	Operation	Record	see M1.2 below				
G81	EPL	M1.2	Monitoring and Recording Conditions	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;	Operation	Record	29/3/2022: Record sighted: - Envirolab monitoring results viewed for Point 10				
			- Monitoring records	b) kept for at least 4 years after the monitoring or event to which they relate took place; and	Operation	Record	29/3/2022: Record sighted: - Envirolab monitoring results viewed for Point 10				
				c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Operation	Record	29/3/2022: Record sighted: - Envirolab monitoring results viewed for Point 10				
G82	EPL	M1.3	Monitoring and Recording Conditions - 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;	Operation	Record	29/3/2022: Record sighted: - Email viewed of COC and Sample Receipt Advice viewed for Envirolab samples. COC included sampling date.				
				b) the time(s) at which the sample was collected;	Operation	Record	29/3/2022: Observation & Record sighted: - Site B Control Room keeps the stormwater sampling log. - This was viewed, with manual entry of site stormwater sampling including the time of sampling, and location, sample ID, and name of sampler.				
				c) the point at which the sample was taken; and	Operation	Record	29/3/2022: Observation & Record sighted: - Site B Control Room keeps the stormwater sampling log. This was viewed, with manual entry of site stormwater sampling including the time of sampling, and location, sample ID, and name of sampler.				
				d) the name of the person who collected the sample.	Operation	Record	29/3/2022: Observation & Record sighted: - Site B Control Room keeps the stormwater sampling log. This was viewed, with manual entry of site stormwater sampling including the time of sampling, and location, sample ID, and name of sampler.				
G83	EPL	M2.1	concentration of	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Operation	Record	See section M2.2 below				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition				Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	atus
		/ OEMP Section							/Observation			Compliant	Non- Compliant	Not Triggered
G84	EPL	M2.2	Requirement to monitor concentration of pollutants discharged	Air Monitoring Req POINT 1 Pollutant	Units of measure	Frequency	Sampling Method	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Recovery Unit is located outside of the B4A Site				
				Organic vapours POINT 8	milligrams per litre	Special Frequency 1	TM-20	Operation	Record	29/3/2022: Interview:		-		
				Point q Pollutant	Units of measure	Frequency	Sampling Method			- Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site				
				residence time Temperature	seconds Celsius	Continuous Continuous	Special Method 1 TM-2							
				POINT 9				Operation	Record	29/3/2022: Interview:		-		
				Pollutant Dry gas density	Units of measure kilograms per cubic metre	Frequency Yearly	Sampling Method TM-23			- Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site				
				Hydrogen Sulfide Moisture content Molecular weight of	milligrams per cubic metre percent grams per gram mole	Yearly Yearly Yearly	TM-5 TM-22 TM-23							
				stack gases Nitrogen dioxide Oxygen (O2)	milligrams per cubic metre	Yearly Yearly	TM-11 TM-25							
				Temperature Velocity	degrees Celsius metres per second	Yearly Yearly	TM-2 TM-2							
				Volatile organic compounds Volumetric flowrate	milligrams per cubic metre cubic metre	Yearly Yearly	TM-34 TM-2							
G85	EPL	M2.3	Requirement to monitor concentration of pollutants discharged	Water and/ or Land POINT 2,10,16	d Monitoring Requ	irements		Operation	Record	29/3/2022: Interview & Observation: Envirolab certificate of analysis 289791 dated 25/2/2022 was viewed presenting sampling at Point 10.	This item is considered compliant as available results from Point 10 were conducted based on the appropriate requirements.			
			polititants discharged	Pollutant	Units of measure	Frequency	Sampling Method			Point 2: located outside of B4A.	See Item G61 for recommendation for this sampling point.			
				BOD Oil and Grease	milligrams per litre milligrams per litre	Special Frequency 2 Special Frequency 2				Point 16: not sampled. Point 16 is located on B4A, however discharges to NSW Ports Stormwater System				
				pH Total suspended solids	pH milligrams per litre	Special Frequency 2 Special Frequency 2				(under Friendship Road), as agreed with NSW Ports. 19/4/2022: Record sighted:				
				501105						- Photograph showing monitoring point 16 is inaccessible in its current state. See Item G61 for recommendation for this sampling				
				POINT 3,4,5,6,7,11,12,13,1	4,15			Operation	Record	point. 29/3/2022: Observation: - Location of GW monitoring wells relevant to B4A		-		
				Pollutant	Units of measure	Frequency	Sampling Method			observed onsite walkover.				
				Benzene Ethyl benzene	micrograms per litre micrograms per litre	Every 2 years Every 2 years	Grab sample Grab sample			- PRM 'Water Quality Monitoring - Round 2' was sighted including accurate location of wells and collection of samples required.				
				Polycyclic aromatic hydrocarbons	micrograms per litre	Every 2 years	Grab sample			- Sampling required every 2 years, first round reporting issued later this year.				
				Toluene Total petroleum	micrograms per litre micrograms per litre	Every 2 years Every 2 years	Grab sample Grab sample							
				hydrocarbons Xylene	micrograms per litre	Every 2 years	Grab sample							
G86	EPL	M2.4	Requirement to monitor	For the purposes of	of the above tables	s of this licence:		Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Recovery Unit is				
			concentration of pollutants discharged	sample during one	of the months Oc r. The sample mus rations of organic	tober, Novembe st be representa vapours release	ngle four hour (continuous) er, December or January in tive of the predicted ed from the EPA			located outside of the B4A Site.				
				event. Both of the commencement of of a five minutes a	samples must be f discharge. The s part. In the case of	collected within amples must be f frequent disch	samples per discharge one hour of the taken at a minimum interval large during rainfall events, d per calendar month.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Recovery Unit is located outside of the B4A Site.				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G87	EPL	M2.5	Requirement to monitor concentration of pollutants discharged	For the purposes of the table/s in Condition M2.2 Special Method 1 means the calculation of residence time within the thermal oxidiser using measurements of differential pressure and temperature at alternative locations in the air treatment system, and including all necessary corrections for temperature differences and process gas inflows between the oxidiser and alternative measurement locations	Operation	Record	29/3/2022: Interview: Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site.				
G88	EPL	M2.6	Requirement to monitor concentration of pollutants discharged	The air monitoring requirements for Point 8 in Condition M2.2 only apply when the Vapour Control System is running to the Thermal Oxidiser.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Thermal Oxidiser is located outside of the B4A Site.				
G89	EPL	M3.1	Testing methods - concentration limits	Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with: a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or	Operation	Record	29/3/2022: Interview: - Vopak confirmed this is not triggered under the EPL as no air emissions are generated / monitored on B4A.				
				b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or	Operation	Record	29/3/2022: Interview: - Vopak confirmed this is not triggered under the EPL as no air emissions are generated / monitored on B4A.				
				c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.	Operation	Record	29/3/2022: Interview: - Vopak confirmed this is not triggered under the EPL as no air emissions are generated / monitored on B4A.				
G90	EPL	M3.2	Testing methods - concentration limits	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.		Record	29/3/2022: Interview: - Vopak confirmed that all testing of waters is subcontracted to an approved NATA certified laboratory Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were				
				Note: The Protection of the Environment Operations (Clean Air) Regulation 2010 requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".			below criteria.				
G91	EPL	M4	Testing methods - load limits	Division 3 of the Protection of the Environment Operations (General) Regulation 2009 requires that monitoring of actual loads of assessable pollutants listed in L2.2 must be carried out in accordance with the relevant load calculation protocol set out for the fee-based activity classification listed in the Administrative Conditions of this licence.	Operation	Record	29/3/2022: Interview: - Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G92	EPL	M5.1	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.	Operation	Record	29/3/2022: Record sighted: - Vopak provided access to view "Enablon" , the site complaint / incident register.				
G93	EPL	M5.2	Recording of pollution complaints	The record must include details of the following: a) the date and time of the complaint;	Operation	Record	29/3/2022: Record sighted: - The site complaint / incident register includes record of date and time.				
				b) the method by which the complaint was made;	Operation	Record	29/3/2022: Record sighted: - The site complaint / incident register includes detailed description for method of complaint.				
				 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; 	Operation	Record	29/3/2022: Record sighted: - The site complaint / incident register includes detailed description for method of complaint.				
				d) the nature of the complaint;	Operation	Record	29/3/2022: Record sighted: The site complaint / incident register includes detailed description for method of complaint.				
				e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and	Operation	Record	29/3/2022: Record sighted: The site complaint / incident register includes follow-up actions, and assigned to the management team to follow.				
				f) if no action was taken by the licensee, the reasons why no action was taken.	Operation	Record	29/3/2022: Record sighted: The site complaint / incident register includes follow-up actions, and assigned to the management team to				
G94	EPL	M5.3	Recording of pollution complaints	The record of a complaint must be kept for at least 4 years after the complaint was made.	Operation	Record	29/3/2022: Record sighted: The site complaint / incident register is electronic and holds all records for the duration of the operations.				
G95	EPL	M5.4	Recording of pollution complaints	The record must be produced to any authorised officer of the EPA who asks to see them.	Operation	Record	29/3/2022: Interview. Vopak confirmed that EPA have not requested this to date. However records would be made available when required.				

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		/ OEMP Section				/Observation				Non- Compliant	Not Triggered
G96	EPL	M6.1	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.	Operation	Record	29/3/2022: Interview. Vopak maintain a 24hr phone line, signposted on the Gate. Any calls would then be registered in "Enablon". None have been registered to date.				
G97	EPL	M6.2	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.	Operation	Record	29/3/2022: Interview. Vopak maintain a 24hr phone line, signposted on the Gate. The Vopak Website has a link to the General line (96664455). The Auditor attempted to call the number. Extension 3 for Health and Environmental, which was forwarded to Vopak HSEQ manager.				
G98	EPL	M6.3	Telephone complaints line	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Operation	Record	Note only				
G99	EPL	R1.1	Reporting Conditions - Annual return documents	Where the licensee is unable to complete a part of the Annual Return by the due date because the licensee was unable to calculate the actual load of a pollutant due to circumstances beyond the licensee's control, the licensee must notify the EPA in writing as soon as practicable, and in any event not later than the due date. The notification must specify: a) the assessable pollutants for which the actual load could not be calculated; b) the relevant circumstances that were beyond the control of the licensee.	Operation Operation	Record	 29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report 29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end 		_		
G100	EPL	R1.2	Reporting Conditions - Annual return	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:	Operation	Record	June 22, for annual report 29/3/2022: Interview: Commencement of operations Nov 21, EPL annual				
			documents	1. a Statement of Compliance, 2.a Monitoring and Complaints Summary,	Operation	Record	reporting period not yet achieved. Data collected end June 22, for annual report 29/3/2022: Interview:		_		
					operation		Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
				3. a Statement of Compliance - Licence Conditions,	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
				4. a Statement of Compliance - Load based Fee,	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
				5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
				 a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
				 7. a Statement of Compliance - Environmental Management Systems and Practices. At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due. 	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
G101	EPL	R1.3	Reporting Conditions - Annual return documents	An Annual Return must be prepared in respect of each reporting period, except as provided below. Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report				
G102	EPL	R1.4	Reporting Conditions - Annual return documents	period. 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	Operation	Record	29/3/2022: Interview: Vopak confirmed that the licence has not transferred				
				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.	Operation	Record	29/3/2022: Interview: Vopak confirmed that the licence has not transferred				
				Note: An application to transfer a licence must be made in the approved form for this purpose.							

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G103	EPL	R1.5	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	Operation	Record	29/3/2022: Interview: Vopak confirmed that the licence has not been surrendered or revoked.				
				 b) in relation to the revocation of the licence - the date from which notice revoking the licence operates. 	Operation	Record	29/3/2022: Interview: Vopak confirmed that the licence has not been surrendered or revoked.				
G104	EPL	R1.6		The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or 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')	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G105	EPL	R1.7	- Annual return	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.	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G106	EPL	R1.8	- Annual return	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
				b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Operation	Record	29/3/2022: Interview: Commencement of operations Nov 21, EPL annual reporting period not yet achieved. Data collected end June 22, for annual report.				
G107	EPL	R2.1	Notification of environmental harm	Notifications must be made by telephoning the Environment Line service on 131 555.	Operation	Record	29/3/2022: Record sighted: - Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. - No incident relating to environmental performance was recorded.				
G108	EPL	R2.2		The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Operation	Record	29/3/2022: Record sighted: - Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. - No incident relating to environmental performance was recorded.				
G109	EPL	R3.1	Written report	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				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.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
G110	EPL	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	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G111	EPL	R3.3	Written report	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event;	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				b) the type, volume and concentration of every pollutant discharged as a result of the event;	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				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;	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				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;	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				g) any other relevant matters.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				-
G112	EPL		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.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
G113	EPL	R4.1	Other reporting conditions	The licensee must submit a summary report of the monitoring required by Condition M2.1 at EPA Identification Point 1, to the EPA within 60 days after the completion of the licence reporting period. The report must include: (a) the monthly total throughput of the facility served by the vapour recovery unit(s) for the previous 12 month licence reporting period (ie. 17 July to 16 July) and the average daily throughput for the months October to January inclusive; and	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no event has occurred where the EPA have requested a report for B4A site.				
				(b) the tanker loader pattern by hour, for the day of the test (midnight to midnight) or tank receipts, as appropriate.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that the Vapour Recovery Unit is located outside of the B4A Site.				
G114	EPL		General Conditions - Copy of licence kept at the premises or plant	A copy of this licence must be kept at the premises to which the licence applies.	Operation	Observation	29/3/2022: Observation: - Vopak confirmed licence kept at reception for the facility. Copy of licence observed (electronic / hard copy).				
G115	EPL		General Conditions - Copy of licence kept at the premises or plant	The licence must be produced to any authorised officer of the EPA who asks to see it.	Operation	Record	29/3/2022: Interview: - Vopak provide licence for sighting.				
G116	EPL		General Conditions - Copy of licence kept at the premises or plant	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Operation	Observation	29/3/2022: Observation: - Vopak confirmed licence kept at reception for the facility. Copy of licence observed (electronic / hard copy)				
G117	EPL	G2.1	Other general conditions	The location of EPA licensed discharge point numbers 1, 2, 10 and 16 must be clearly marked with signs to indicate the point identification number used in this licence and be located as close as practical to the point.	Operation	Record, observation	19/4/2022: Record sighted: - Photographs showing monitoring points 10 and 16 were sighted.				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
Operational E	l nvironmental	Managemen	I nt Plan								
Operational En	OEMP	Managemen 1.9	oemp Responsibility and Review	 A review of the OEMP and sub-management plans is to be carried out every 3 years (to match the same timeframe as the Environmental Audit for Site B specified in the conditions of consent) or sooner as required by the following cases within the three-year interval: When there is a significant environmental incident. When there is a need to improve performance in the area of an environmental impact. When changes are proposed to Site B operations At the completion of environmental audits (internal Vopak audits, external audits, etc). Actions from audit and maintenance reports that identify any noncompliance with defined procedures or improvements to the OEMP are recorded in Enablon Vopak's electronic action tracking system. When there is an update or change in relevant Commonwealth, State and Territory legislation and local Conditions of Consent (as per Vopak procedure QAP09C – Compliance with Regulations). Latest revisions of the documents are uploaded to the Vopak controlled document management system and can be accessed by all Vopak personnel. 		Record	29/3/2022: Interview: This item is considered not triggered as B4A terminal has not been operation for 12 months.				
G119	OEMP	2.9.1	Spill Containment	MyDocs system allows familiarisation tasks to be set when changes occur to this OEMP or sub-management plans. All tanks are in bunded areas which provide 110% containment of the largest tank volume plus an allowance for firewater containment in accordance with the requirements of AS1940. The bund materials and construction differ between the B1/B2, B3 and B4A areas as they were constructed at different times. B1/B2 tanks are gravel bunds with a liner. B3A and B4A tanks are also within a gravel bund with a liner and the B3B area tanks are within a concrete floored bund. Bunds are equipped with level detection and high-level alarms. Spills, wash down water and rainwater in road tanker loading bays collect in a drainage system which is manually pumped out to the slops tanks. Pump bays are located in curbed and covered areas with a sump and a pneumatic diaphragm pump which transfers liquid from the sump to the slops tanks.	Operation	Record, observation	 29/3/2022: Interview and Record sighted: Vopak have provided a copy of the as built bund construction, and tank volume, and confirm that the bund achieves 110% capacity. Vopak confirmed that the bunds were equipped with level detection and high level alarms. 				
G120	OEMP	2.9.2	Stormwater	The B4A stormwater system is designed to comply with the requirements from the Port Botany Development Code, Randwick Council Standards and the AS 3500: National Drainage and Plumbing Code. A detailed overview of the system, including layout and discharge points is provided in the Water Management Plan (Appendix I).		Record, observation	29/3/22: Record sighted: - Engineering, Procurement and Construction document (240503-CV-DC-2007, dated 13/4/2020) sighted which details the as built drainage system				
G121	OEMP	2.9.2	Stormwater	Like at Site B stormwater at B4A either flows naturally from the site (low use areas, such as perimeter roadways) to slow-release sumps that ensure a controlled release to not overwhelm NSW Ports drainage systems (such as Point 16). Stormwater from internal roadways is collected into the site stormwater system to the B4 interceptor pit. Stormwater that collects in bunds is treated via oil water separator and transferred to the B4 interceptor pit. The site Interceptor Pit is sampled as per EPL and site operating procedure requirements and manually released (operator initiated) released from the interceptor pit.	Operation	Record, observation	29/3/2022: Interview & Observation: - Vopak (MB) confirmed the process of water treatment prior to discharge. - Interceptor pit viewed and Envirolab certificate cited.				
G122	OEMP	2.9.3	Vapour Recovery Unit	A vapour recovery unit (VRU) recovers vapours from the tanker loading bay (via connection of the vapour return hose to the trucks), reducing emissions to atmosphere and also preventing the accumulation of flammable vapours in the vicinity of the loading bays. The VRU vacuum strips hydrocarbon vapours, absorbs them into a gasoline flow and these are collected and returned to a gasoline bulk storage tank. Clean air is released via the VRU stack.	Operation	Record, observation	29/3/2022: Interview: - Vopak confirmed this is not applicable for B4A Site.				
G123	OEMP	2.10	Security	Site B and B4A have flood lighting and camera surveillance throughout the operational areas. Both sites are fully fenced and non-operating gates are locked.	Operation	Record, observation	29/3/2022: Interview & Observation: - Vopak (MM) indicated operational camera and lighting functions. Lighting functions were not observed during the Audit.				
G124	OEMP	3.0	Statutory Requirements	Vopak Site B, B4 and the BLBs (BLB1, BLB2) must comply with legislation and maintain/seek relevant Approvals and Licenses that apply to the facility.	Operation	Record	29/3/2022: Interview: - Vopak (MM) stated that the only two licences/approvals applicable for this site are SSD7000 and EPL6007, which are up to date.				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G125	OEMP	4.6	Training	 All personnel must successfully complete all listed inductions prior to working on the site. Inductions include Vopak, contractor and NSW Ports requirements. The required Vopak Terminal Induction for staff and contractors includes: Vopak general site safety requirements. Product information including product handling, storage, disposal and emergency procedures. Reporting requirements in case of any incidents, accidents or spills that happen in the terminal i.e.; all environmental breaches must be reported Emergency response procedures. Vopak staff and contractors who work at the Bulk Liquid Berth also have to complete the NSW Ports online Induction: NSW Ports Health, Safety & Environment Induction NSW Ports Bulk Liquid Berth Induction. Additional Terminal induction training for new staff includes the following features: Introduction to the Vopak and contractor corporate health, safety and environmental policies, objectives and expectations. Site safety objectives, rules and particular hazards – Site Evacuation, No spill policy, reporting requirements Environmental Management – storm water control, sampling of overflows, reporting requirements Site layout, facilities and housekeeping rules Emergency Shut Down Equipment, Spill kits, Alarms Emergency Management - how to respond in case of first aid, fire, spills or loss of containment Handling Hazardous Chemicals – environmental impact of chemicals, SDS, ADGC, emergency response to spill or loss of containment Job specific requirements (including specific SHE management) job location competency assessments including, process safety, quality control and emergency control – loss of containment 	Operation	Record	29/3/2022: Record sighted: - Vopak (MM) provided training records for staff member (JM). Review of this record showed evidence of training for required competencies relevant to their specific role, including: - Online Safety Induction - NSW Ports induction (for work on berth) - on the job training for specific practices - site specific training and Vopak global modules - emergency response training and drill. - MyPulse learning maintains training records for all staff. - Vopak provided access to training portal and this system was verified.				
G126	OEMP	4.7	Communication and Information	QAP20C - Corporate Policies & Procedures Manual allocates responsibility to ensure that the SHE policy is communicated to all levels in the organisation. The policy is provided to employees and contractors during induction and is reviewed in accordance with the SHE Manual. The Site B Safety Health and Environment Committee (SHE Committee) meets at least once per quarter. SHE Committee members complete accredited 'workplace consultation' training to become members of the SHE Committee. Minutes of the SHE Committee are circulated to SHE Committee members and management representatives and displayed on notice boards at prominent work locations. Vopak engages and consults its industrial neighbours, authorities, councils and local communities surrounding the site via an established consultative groups such as the Port Botany Community Consultative Committee. Documents, once formally authorised by the SHECQ & Sustainability Manager, are accessible to all personnel via Vopak's Document Management System called MyDocs. Information on accidents and near misses are communicated globally within Vopak to share learnings via Vopak Incident Notifications published through Vopak's Corporate Operations Excellence (CoOpX). Vopak's EPL and compliance monitoring reports are also provided on the company website, refer to https://www.vopak.com/terminals/asia/vopak-terminal- sydney-site-b. Any notifiable incident under the POEO Act, shall be reported to the relevant authorities under the Act and also to NSW Ports.		Record	29/3/2022: Interview & Observation: - SHE policy is in the induction - SHE policy is displayed on the wall in the several locations within the office - SHE is on corporate policy and procedures accessible through their system				
G127	OEMP	4.8	Incidents and Compliance	Enablon is used for reporting and tracking incidents and associated actions. Status of actions goes into the site Terminal Report Card and SHE statistics. Information on accidents and near misses are communicated globally within Vopak to share learnings via Vopak Incident Notifications published through Vopak's Corporate Operations Excellence (CoOpX). Enablon is also used to record all environmental or community complaints (as they would be classed as incidents as per Vopak standards). There is an Environmental Telephone Complaints Line (24 hrs), Phone: 9666 4455. In accordance with Condition 7 (MP-0089 MOD 2) and for B4A Condition C9 (SSD 7000), the Department must be notified in writing to compliance@planning.nsw.gov.au immediately after Vopak becomes aware of an incident. The notification must identify the development (including the development application number) and set out the location and nature of the incident.	Operation	Record	29/3/2022: Interview: - Vopak provided access to view "Enablon" , the site complaint / incident register. - The system was sighted, and process viewed and complies with the description stated in the OEMP.				

Geosyntec ID	Document	SSD/EPL	Item	Condition	Audit Phase	Pre-	Evidence Collected / Observations	Independent Audit Findings and	Cor	npliance Stat	tus
		Condition / OEMP Section				review/Record /Observation		Recommendations		Non- Compliant	Not Triggered
G128	OEMP	4.8	Non-Compliance	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after Vopak becomes aware of any non-compliance with the Site B conditions of consent. Reference will be made to MP-0089 MOD 2 (Conditions 7A – 7C) prior to notification being made in order to ensure consent conditions are satisfied. Note that SSD7000 (B4) does not specify and specific requirements for non-compliance notification and the same approach as for Site B will be adopted for B4A.	Operation	Record	29/3/2022: Interview: - Vopak confirmed that no non-compliances have been registered for B4A Site.				
G129	OEMP	4.9	Complaints	Any Environmental or Pollution complaints directed to Vopak are handled via the SHE004C Incident Investigation and Reporting procedure (Appendix G). All environmental or community complaints are to be logged in Enablon and reported immediately to the Terminal Manager and investigation occurs. If the complainant is known, Vopak will notify them of complainant the outcome of the investigation.	Operation	Record	 29/3/2022: Interview: Vopak provided access to view "Enablon", the site complaint / incident register. The system was sighted, and process viewed and complies with the description stated in the OEMP. No complaints have been received associated with environmental performance. 				
G130	OEMP	4.9	Disputes	If following an investigation of a complaint related to operations or environmental management from the community, neighbour or the landlord and the complainant remains dissatisfied with the findings of the investigation and a dispute ensues Vopak will meet with the complainant to further define the issue. Vopak will further assess its compliance with all relevant approvals, licences and monitoring criteria. The assessment process may include further monitoring if appropriate and/or the engagement of specialist third party. If Vopak is compliant with the relevant approvals, licences and monitoring criteria, Vopak will provide the findings and/or results to the complainant and seek to close the matter. If further investigation, remediation or rectification works are required Vopak will keep the complainant updated on progress and/or results until compliance is demonstrated. Vopak will advise the complainant that compliance has been achieved and close the matter.	Operation	Record	 29/3/2022: Interview: Vopak provided access to view "Enablon", the site complaint / incident register. The system was sighted, and process viewed and complies with the description stated in the OEMP. No complaints have been received associated with environmental performance. 				
G131	OEMP	4.10.1		 The emergency response plan (ERP) is detailed in procedure OPS09.1B Emergency Procedures Plan – Site B which is communicated to all personnel through emergency response training and induction. The ERP is intended to cover all emergencies that may occur at Site B and B4A, which includes: Site B perimeter B4A perimeter Vopak Terminals manifold and pipelines at the BLB1 and BLB2 wharf Pipeline Corridor between the Site B and the BLB1 and BLB2 wharf Pipeline Corridor between the BLB1 wharf up to the Jet Fuel pipeline connections in Bumborah Point Road CTP pipeline up to the Caltex Banksmeadow Terminal. Piping under Friendship Rd connecting B4A and Site B The basic philosophy is that all spills are regarded as incidents and relevant authorities are required to be notified of all incidents. Local incidents are handled at the plant level by staff trained to implement measures such as spill containment and first aid firefighting (e.g. use of extinguishers). Incidents more severe than this will involve the emergency services, initiated by alarms to the Fire Brigade. For emergencies which may impact on or involve neighbouring sites, or the community, or emergencies at neighbouring sites which may impact on or involve Vopak's terminal, the NSW Ports Port Botany Emergency Plan (PBEP) is applicable. In the case of such emergencies, notification is done using the Port Botany Emergency Radio and Alarm System (PBER&AS). 	Operation	Record	29/3/2022: Interview - Vopak confirmed that ERP is available on all staff computers via MyDocs. - Full version of the document is available in the control room.				
G132	OEMP	Table 5.1	Monitoring of Controls - Air Quality - Hydrocarbon/VOC emissions from tanker filling operations	Controls: • The VRU treats vapours from road tanker loading. • Preventative maintenance program for VRU Monitoring Measures: • EPL includes the VRU as a licensed discharge point with annual sampling and performance check • Operation of the VRU is monitored by operations monitoring of process parameters on SCADA (inlet VOC monitor, temperatures etc) Reporting Measures: • Sampling results / emissions are reported as part of annual return to EPA • National Pollutant Inventory (NPI) reporting • DPIE and EPA notified of any incidents	Operation	Record	29/3/2022: Interview: - Vopak (MM) confirmed this item is not triggered as the location is outside of B4A Site.				

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G133	OEMP	Table 5.1	Monitoring of Controls - Air Quality - Hydrocarbon/VOC emissions from tanker filling operations, tank breathing losses	Controls: • Tanks are fitted with internal floating roofs to minimise vapours Monitoring Measures: • Tank periodic inspections include inspection of IFR and seal condition Reporting Measures: • Emissions are reported as part of annual return to EPA • National Pollutant Inventory (NPI) reporting	Operation	Record	29/3/2022: Interview: - Vopak (MM) confirmed this item is not triggered as the location is outside of B4A Site.				
G134	OEMP	Table 5.1	Emissions from VRU (eg fault,	Controls: • Operation of the VRU is monitored by operations monitoring of process parameters (temperatures etc) Monitoring Measures: • EPL includes the VRU as a licensed discharge point with annual sampling and performance check • Operation of the VRU is monitored by operations monitoring of process parameters (temperatures) • VRU downtime included in Terminal Report Card (TRC, updated monthly) Reporting Measures: • Sampling results / emissions are reported as part of annual return reporting to EPA • Annual tests reported as part of annual return • DPIE, NSW Ports and EPA are notified of any incidents	Operation	Record	29/3/2022: Interview: - Vopak (MM) confirmed this item is not triggered as the location is outside of B4A Site.				
G135	OEMP	Table 5.1		Controls: • Training of drivers • Hose integrity checks • High level shutdown for tanker filling • Hardstanding for all loading areas and roadways • Gantry is roofed to minimise contaminated rainwater volumes • Gantry stop and terminal ESD buttons • Man down system (3 minutes) • Road tanker loading gantry area curbing / spill containment volume (NSW EPA and AS1940 compliant). • Gantry drainage directed to slops. • Spill clean-up equipment and procedures Monitoring Measures: • Operations such as tanker loading and product receipt are monitored by CCTV. • Bunded areas, pits and catch drains are visually inspected. • The first flush pit will be inspected for floating oils/contamination prior to a controlled discharge occurring. Reporting Measures: • Gantry incidents tracked • DPIE, EPA, NSW Ports are notified of any incidents that may or have caused 'material harm' as defined in the POEO Act.	Operation	Record	29/3/2022: Interview and observations: - Vopak (MM) stated that items relevant to tanker filling not triggered for B4A Site. - Monitoring measures, CCTV was observed functioning. - Incident register reviewed. - Site inspections occur as part of daily check list for entire facility. Daily inspection & weekly report (28/3/2022) sighted, which provides inspection on shift room, stormwater pit, interceptor pit, oily rag bins, bunds, sumps, manifolds and pump bays, tank dewatering.				
G136	OEMP	Table 5.1	tank storage areas leading to water contamination	Controls: • Independent high level shutdown for each tank initiating a terminal ESD • Bunding provided for tanks and road tanker loading gantry area kerbing / spill containment volume (NSW EPA and AS1940 compliant). • Drainage of spills/rainwater to sump pits and rainwater only directed to oily/water separator treatment. Water is then discharged off-site via final interceptor pit. • Spill clean-up equipment and procedures • Contaminated water will be pumped to the slops system once the spill has been investigated (B4A). Monitoring Measures: • Bunded areas, pits and catch drains are visually inspected. • Prior to release of discharge into Botany Bay, discharge water is sampled and field tested. Reporting Measures: • Storm water Interceptor Pit Discharge Logs and monthly summary • Water quality at discharge point is reported as part of annual return reporting to EPA • DPIE, EPA, NSW Ports are notified of any incidents	Operation	Record	29/3/2022: Interview & Observation: - Vopak (MM) confirmed that the procedure stated in the OEMP is followed for the management of surface spills within the B4A area. - Vopak (MM) stated that spill clean up / containment includes recovering the spill to through the slops system, which is stored in tanks outside of B4A for later disposal. - Spills are recorded through Enablon. No spills have occurred for Site B4A.				

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G137	OEMP	Table 5.1	Monitoring of Controls - Water – stormwater/surface water - Discharges from waste water treatment leading to water contamination.	Controls: • Procedure and training • Electrically operated valve to discharge to Botany Bay (failsafe, ie closed if power fails) Monitoring Measures: • Prior to release of discharge into Botany Bay, discharge water is sampled and field tested. Reporting Measures: • Storm water Interceptor Pit Discharge Logs and monthly summary • Water quality at discharge point is reported as part of annual return reporting to EPA • DPIE, EPA, NSW Ports are notified of any incidents		Record	29/3/2022: Vopak have provided access of the following: - Envirolab analytical certificate viewed. - Stormwater Pit Discharge Log viewed. - annual return not yet triggered for EPA.				
G138	OEMP	Table 5.1	Monitoring of Controls - Water – stormwater/surface water - Piping/MLA leaks in wharf during product receipt leading to water contamination	Controls: • MLA position monitoring and quick release • Bunding at BLB1/BLB2 • ESD at wharf Monitoring Measures: • Import / Export fully attended operation • CCTV monitoring from Vopak and NSW Ports Reporting Measures: • DPIE, EPA, NSW Ports are notified of any incidents	Operation	Record	29/3/2022: Interview: - Vopak (MM) confirmed this item is not triggered as the location is outside of B4A Site.				
	OEMP	Table 5.1	Monitoring of Controls - Water – Soil and Groundwater: • Spillages in road tanker loading bay area, tank storage areas leading to soil/groundwater contamination • Discharges from waste water treatment leading to soil/ground water contamination • Residual contamination from underground oily water system	 Controls: Segregation of potentially contaminated and clean areas using bunding. Operating and spill clean-up procedures Decommissioning of original Site B underground oily water system (replaced with aboveground drainage system facility) Operator training Monitoring Measures: Groundwater monitoring in accordance with the Water Management Plan (B4A) (Appendix I). Grab samples are taken and tested (every 2 years) Reporting Measures: Groundwater quality at monitoring points (via bores) are reported as part of annual return reporting to EPA DPIE, EPA, NSW Ports are notified of any incidents 	Operation	Record, observation	 29/3/2022: Observation: Bunding observed onsite (confirmed 110% capacity construction through review of plans). 29/3/2022: Record sighted: ERP includes spill and clean-up. Training records viewed. PRM groundwater monitoring report viewed. No incidents requiring reporting noted on the incident register. 29/3/2022: Interview: Vopak (MM) stated: Oily water system not on B4A Site Grab samples to be completed this year (2022). GW Annual return not due for completion. 				
G140	OEMP	Table 5.1	Monitoring of Controls - Waste - Slops generation due to dewatering and product interfaces during ship import product changes	Controls: • Procedures for dewatering and interface management Monitoring Measures: • Slops volumes monitored as part of Terminal Report Card (monthly update) Reporting Measures: • Annual return to EPA includes slops volumes	Operation	Record	29/3/2022: Record sighted: - Safe Work Instruction for dewatering tanks. - Slops inventory viewed on screen. 29/3/2022: Interview: - Annual report not yet required.				
G141	OEMP	Table 5.1	Monitoring of Controls - Noise - Noise pollution (including newest addition of 3 pumps on Site B4A)	Controls: • Task that generate high decibel noise are only performed during day light hours • Warning signs • PPE Monitoring Measures: • Noise survey to identify high decibel areas within the terminal Reporting Measures: • DPIE, EPA, NSW Ports are notified of any incidents		Record	 29/3/2022: Interview: Vopak (MM) confirmed that: PPE training has occurred for whole of site as part of induction. Ear protection required in operational areas. no noise issues have been notified (confirmed through review of Enablon). 				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G142	OEMP	Table 5.1	Monitoring of Controls - Greenhouse gas emissions and climate change - Generation of scope 2 and 3 greenhouse gas (GHG) emissions from: • Electricity to run plant operations; • Delivery and distribution of fuels via road and ship tanker; • Passenger vehicles transporting staff to and from site; and • Combustion of fuel distribution from Site B.	Controls: • Implementation of environmental management controls noted in the Energy Efficiency Plan (Appendix J) Monitoring of Measures: • Recording and benchmarking of energy usage at Site B. Reporting Measures: • Qualitative results of energy usage measured periodically	Operation	Record	 29/3/2022: Record sighted: Royal Vopak (trend analysis viewed YTD Feb2022. Greenhouse gases are reported monthly to Royal Vopak (trend analysis viewed YTD Feb2022). 29/3/22: Interview: Items actioned by Vopak to improve emissions in line with OEMP requirements include: Variable speed drives placed on pumps Investigated viability of solar panels on control room Progressive replacement of lights to LED Progressive motion light sensors for the facility Replaced VRU (outside of B4A) 				
G143	OEMP	6.1	Reporting and monitoring	 Vopak's environmental management system includes the following environmental reporting and monitoring schedules: Site inspection checklist (ie plant logs) Non-compliance and corrective action reports Complaints reports Environmental incident reports. Plant logs are hardcopy and records kept in the control room. All other internal reports are entered into and accessible by all personnel via Enablon. Environmental and safety performance indicators are tracked via the site Terminal Report Card (TRC). The TRC provides an overview of the terminal operating KPIs, as well as outages of key environmental safeguards such as the VRU outages and slops volumes. The TRC also includes SHE performance indicators tracked against targets. This is updated monthly and discussed in monthly meetings. Table 6.1 outlines the reports that are required to be submitted by Vopak to external authorities. 		Record	29/3/2022: Record sighted: - Vopak (MM) provided evidence of: - Site Inspection checklist (daily) - Plant logs and hard copy records - Enablon records (complaints register / env incident reports) - Terminal report card (including Training / SHEQ / Maintenance / Operation and Customer service / stock control)				
G144	OEMP	Table 6.1	Reporting Requirements	 Description- Authority reported to - Frequency: Reporting of emissions - National Pollutant Inventory (NPI) - Annual Annual return (compliance with EPL) - NSW EPA - Annual Air quality (VRU) - NSW EPA - Annual (Note 1) Water quality (Discharge from waste water treatment plant) - NSW EPA, Contamination reported to NSW Ports - Annual (Note 1) Groundwater quality (monitoring points as described in EPL 6007 - NSW EPA, Contamination reported to NSW Ports and NSW EPA - Bi-Annual (Note 1) Pollutant load limits (benzene, VOCs) - NSW EPA - Annual Incident reporting (eg exceedances, spills, soil and water contamination) - DPIE, NSW Ports, NSW EPA - Immediately Recording and benchmarking of energy usage at Site B and Site B4 - Refer to Energy Efficiency Plan (Appendix J) - Refer to Energy Efficiency Plan (Appendix J) Notes 1) Also publicly accessible via https://www.vopak.com/terminals/asia/vopak-terminal-sydney-site-b 	Operation	Record	29/3/2022: Interview: - This item is not yet triggered, as annual return not yet due for B4A Site.				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G145	OEMP	6.2	Auditing	Internal and external audits are conducted to identify non-compliances with defined procedures, and to identify opportunities to improve the effectiveness of the IMS. Vopak has in place documented procedures for internal audits of the IMS (procedure QAP04C), which is supplemented by an audit report (FQAP06C). The procedure covers the audit scheduling and preparation, conducting the audit, report format and audit follow up. The SHECQ & Sustainability Manager establishes and maintains a program of internal audits for all aspects of the company's SHE and Quality Management System and formally assigns a qualified auditor to perform auditing duties. Actions from audits are entered into the action tracking system within Enablon as per procedure QAP03C - Corrective and Preventative procedure. The SHECQ & Sustainability Manager is responsible to ensure that the audits listed on the audit schedule are carried out in a competent and timely manner. External audits are carried out by independent auditors approved by the Director-General. An external Environmental Audit was carried out for Site B, as part of the DPIE conditions for the expansion of Site B (Condition 4, MOD 2 06_0089, See APPENDIX C) on 4 November 2019. In accordance with MOD 2 (Condition 4), an Independent Environmental Audit will be completed every three years after the first. The next audit is scheduled for completion prior to 27 December 2022 for Site B and for B4A as per SSD7000 condition C11.	Operation	Record	29/3/2022: Interview: Vopak have developed an internal audit procedure: - Terminal health assessment - business process review - trust and verify - other audits (all other) Audit schedule: - trust and verify under review - internal audits for B4A currently meet required schedule - First audit being completed, next audit due March 2025.	The internal audit report for environmental performance has not been provided to the Auditor for review. During the interview, it is understood that the internal audit is being conducted. Recommendation: The Internal Audit is completed.			
G146		6.2	Hazard Audit	The most recent hazard audit was completed on 9 July 2020. Hazard audits will be completed at the site every three years after the first. The next audit is scheduled for completion prior to 27 December 2022 for Site B and for B4A as per SSD7000 condition B8.	Operation	Record	29/3/2022: Interview Vopak confirmed that Hazard Audit not triggered, Hazard audit required in 2023 for the whole of site				
Traffic Manage	ement Plan (A	Appendix E o									
G147	TMP	E.2	Traffic Movements	Road tanker traffic in excess of 200 vehicles per day is currently experienced at Site B. There will be no road tanker loading / offloading operation at Site B4A and only maintenance / operational vehicle would be accessing the Site B4A	Operation	Record, observation	29/3/2022: Observation: - No tankers were observed in the Site B4A area during the audit - Access to the B4A area is restricted by a swipe card				
G148	TMP	E.3	Standard and contingency measures of traffic management	Vopak's standard procedure for notifying our customers of scheduled shutdown involves written notification at least 30 days in advance of the scheduled shutdown. This notification period affords customers time to make alternative arrangements to access products stored at Site B prior to or after the shutdown period. In the event a road tanker is present at Site B to load during a scheduled shutdown period, the Terminal Operator notifies the driver of the scheduled shutdown. In the event of an extended unscheduled shutdown of Site B, Vopak will deploy a Traffic Controller. The role of the Traffic Controller will be to manage traffic at the access and egress point of Site B. Dependent on the situation, the Traffic Controller may allow road tankers to remain on enter the site or may request that all road tankers leave the site and the port precinct area until such time as the site becomes operational again.	Operation	Record	29/3/2022: Interview - Vopak confirmed that this is not triggered as relevant to Site B, and not B4A.				
G149	TMP	E.4	Special Provisions	Vopak has existing relationships with the NSW emergency services providers NSW Fire and Rescue, NSW Police Force and NSW Ambulance Service. Vopak allows unrestricted access to Site B to the above service providers. Apart from normal heavy traffic accessing products stored at the terminal. Vopak only anticipates the occasional use of large plant, i.e. cranes at the site. Any activity that involves the use of large mobile plant will be scheduled in advance and allowances have been made on the site for parking this mobile plant.	Operation	Record	29/3/2022: Interview - Vopak stated that they hold a twice weekly planning meeting to discuss Permit To Work and other site operations, including requirements for Large Mobile Plant.				

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		/ OEMP				/Observation			Compliant		Not
		Section								Compliant	Triggered
Incident Invest	tigation and	Reporting Pro	l ocedure (Appendix G	I of OEMP)							
G150	IIRP	Reporting Pro	ocedure (Appendix G	 VTA has established a formal team to conduct investigations, and the procedure outlines their roles and responsibilities as detailed below: Vopak operations personnel submit an incident notification form for every accident / incident within the shift to the Terminal Manager - Site B and SHEQ Manager The Terminal Manager - Site B reviews all incident notifications to ensure that corrective actions are made if required, and to observe any trends which may require action on their part In the event of an accident or incident, the SHEQ Co-ordinator verifies the findings of the Vopak operations personnel and cooperates in the investigation of every serious or potentially serious occurrence An immediate oral report is made to the Managing Director in the event of fatality, lost time incident, damage to plant, equipment or materials, any incident related to product quality non-conformance, and all fires. A report is completed thereafter. In the event of catastrophic, major or serious incidents, an incident investigation team is formed to conduct the investigation Submit a copy of each report to the Managing Director The Financial Controller completes all claim forms for property damage. Accident, incident and near miss reporting key performance indicators are documented as follows: Statistics from the SHE KPI spreadsheet of safety statistics are incorporated into the 'Terminal Monthly Report Card' and reviewed monthly by the Terminal Monthly Team (TMT). The investigation reports outstanding (which includes actions) are incorporated into the Terminal Monthly Report Card and reviewed monthly by the Terminal Management Team (TMT). 		Record	29/3/2022: Record sighted and Interview: - Enablon is utilised by operations personnel to submit incident notifications. - Terminal Manager receives alerts and reviews. - Enablon system was viewed on site, and examples of incidents and the processes followed was observed. The processes aligned with those stated in the IIRP.				
				 Statistics from the KPI spreadsheet are incorporated into the National Leadership Team meeting who meets on a monthly basis. Monthly statistics summarising the SHE KPI Spreadsheet are sent to Singapore (Vopak Asia) Incidents and near misses are communicated globally within Vopak to share learnings via Vopak Incident Notifications published through Vopak's Corporate Operations Excellence (CoOpX). 							
Air Quality Mar	nagement Pl	an (B4A) (Ap	pendix H of OEMP)								
G151	AQMP	5.0	Operational Mitigation measures	 Operational mitigation measures to minimise air pollutant emissions from the Vopak site were summarised by AECOM (2017). Mitigation measures currently in place an Site B that are also relevant to the B4A component of the site include: Pipeline flanges and pump seals AECOM (2017) recommended that a Leak Detection survey be completed to determine the extent of fugitive benzene emissions associated with leaks from the pipeline flanges and pumps. Where leaks are detected, Vopak will investigate options to minimise benzene fugitive emissions including replacing pump or flange seals. 	Operation	Record, observation	29/3/2022: Interview: - This has not been conducted for B4A, but Vopak agree to include B4A in future assessments for Leak Detection surveys.	Recommendation: Pipeline flange and pump seal to be included in current Air Emissions verification study being completed for B4			
G152	AQMP	5.0	Mitigation Measures - Dust management	Section B13 of the project's development consent conditions lists the following dust management measures relevant to the construction and operation of the project. Vopak commits to ensuring that these measures and the ones listed following this section are adhered to throughout the project's operations. It is noted that there is no road tanker loading at B4A and therefore truck traffic associated with B4A is limited to any vehicles required during shutdown periods only (typically made of utility vehicles, not heavy vehicles). • all vehicles on-site do not exceed a speed limit of 20 kilometres per hour; • all loaded vehicles leaving the site are cleaned of dust, sand and other materials before they leave the site, to avoid tracking these materials on public roads; and • all heavy vehicles on-site do not use engine brakes.	Operation	Record, observation	29/3/2022: Interview - Vopak (MM) confirmed that no shut down has occurred for B4A since construction. This item is not triggered				

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		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G153	AQMP		Mitigation Measures - Air Quality	Appendix 2 of the project's development consent conditions provides the following commitments and mitigation measures in regard to air quality. It is noted that many of these measures related to dust may not be specifically applicable to Site B4A operations but are noted as general best practice measures to mitigate dust in the area surrounding the project and during construction. • a Construction Air Quality Management Plan was prepared for the construction of the wider Project to manage construction air quality impacts (notably dust); • the existing OEMP currently in place for the operating Site B Facility will be reviewed and updated to ensure all reasonable and feasible air quality management measures have been incorporated into the operation of B4A; • all vehicles and plant/equipment should be fitted with appropriate emission control equipment and be serviced and maintained in accordance with the manufacturer's specifications. Smoke from vehicles/plant should not be visible for more than ten seconds; • trucks entering and leaving the premises that are carrying loads of dust-generating materials must have their loads covered at all times, except during loading and unloading; • hard surfaces or paving should be used where possible, as unpaved routes can account for a significant proportion of fugitive dust emissions, particularly during dry/windy conditions. Routes should be inspected regularly and repaired when necessary, and roads should be swept and watered as required to limit dirt/dust build up and potential dust generation during windy conditions; • any areas on site that are not covered with hard surfaces should be vegetated wherever possible to minimise wind erosion and associated dust generation. The frequency of these management measures will be increased during dry windy conditions; • active excavation area works will be wetted down with hoses; and • housekeeping will be maintained to keep exposed areas to a minimum.	Operation	Record	 29/3/2022: Interview Vopak (MM) state that the Site B4A CEMP includes relevant air monitoring requirements, specific to the site. 29/3/2022: Observation: The Auditor did not observe any unacceptable dust during site visit. No vehicle was observed entering or leaving the site at the time of Audit. The site is mostly paved with hardstand. 29/3/2022: Record sighted: Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. No incident relating to dust was recorded. 				
G154	AQMP	6.2	Complaint Reporting	 Indusekeeping will be maintained to keep exposed areas to a minimum. If complaints are received or a pollution incident occurs, the Site Manager will be responsible for completing a complaints or incident form and take actions as necessary. Complaints and incidents deemed to be the direct result of the operational emissions from the projects, should be reported within seven days and should include the following detail: details of the complaint or incident (date, time, specifics, complainants contact details) will be noted; activities occurring during the complaint or incident period to be investigated; log findings of operations during the complaint or incident period in the complaints register; review relevant management practices as necessary; respond to complainant with findings of the review; note findings and actions of investigation in a register; a record of a complaint or incident should be kept for at least four years and must be produced to any authorised officer of a relevant regulatory agency who asks to see them; and all complaints or incidents received will be listed in the Environment Protection Licence (EPL) Annual Return. 	Operation	Record	29/3/2022: Record sighted: - Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. - The site complaint / incident register includes detailed description for method of complaint.	Recommendation: All complaints and incidents will be listed in EPL Annual Return.			

Geosyntec ID	Document	SSD/EPL Condition	ltem	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations		mpliance Sta	itus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G155	AQMP	6.3	Air quality incident definition and response	For the purpose of this AQMP, a complaint or incident that is deemed to be the direct result of operational emissions from the project (following actions described in Section 6.2) will be classified as an air quality incident. Vopak will notify DPIE in writing to compliance@planning.nsw.gov.au within seven days of the incident. The incident notification must: identify the development and application number; provide details of the incident (date, time, location, and a brief description of what occurred and why it is classed as an incident); identify how the incident was detected; identify when the applicant became aware of the incident; identify any actual or potential non-compliance with conditions of consent; identify further action(s) with will be taken in relation to the incident; identify a project contact for further communication regarding the incident. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant will provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing the following requirements. Further reports may be requested. a summary of the incident; outcomes of an incident investigation, including identification of the cause of the incident; details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent reoccurrence; and	Operation	Record	29/3/2022: Record sighted: - Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. - The site complaint / incident register includes detailed description for method of complaint.				
G156	AQMP	6.5	Review of AQMP	 A comprehensive review of the complaint and incident records will be completed as part of the project annual review of operations, and each year thereafter, and will be provided to DPIE. The AQMP should be reviewed and revised (if necessary) within three months of the following: the submission of an incident report; the approval of any modification of the conditions of consent; or the issue of a direction of the Planning Secretary which requires a review. Any modifications to the AQMP will be undertaken in consultation with the appropriate government agencies. 	Operation	Record	29/3/2022: This item is considered not triggered, as annual review is not yet required for B4A. Based on review of current incidents listed in the Enablon, there is no incident related to air or dust, which requires update of AQMP.				
Water Manage	ment Plan (B	A) (Append	I lix I of OEMP)								
-	WMP		Ports NSW discharge requirements	 Discharge location - Description of how requirements are achieved: Discharges to Southern Discharge Point - Runoff from the three bunded areas and Catchments B, D, E discharge via the Southern Discharge Point. All runoff from these catchments will be managed in the Potentially Contaminated Stormwater System (despite some of the catchment area being clean) to avoid the need to duplicate storages. The Potentially Contaminated Stormwater System includes a First Flush and Final Storage Pit (see Section 4.3 for further details). These storages combined with storage in the bunded areas have been sized to achieve Ports NSW discharge requirements (see Table 4.2). The First Flush and Final Storage Pits will be dewatered in accordance with the protocols described in Table 4.6. Discharges to Northern Discharge Point - Runoff from Catchments A and C and the northern part of Catchment F discharges to the Northern Discharge Point. Discharge from this pit will be limited to 5 L/s during the designed storm event (a 5% AEP critical duration event). A holding pit along with a pump out system has been configured to achieve this objective. Excess water will be pumped back to the tank bund storage, which has significant capacity (see Table 4.5). 	Operation	Record, observation	29/3/2022: Record sighted: - Drainage Design Calculation (Dialog Services Pty Ltd, 13/4/20) sighted showing the catchment calculations per discharge point, in accordance with the WMP requirements.				
G158	WMP	4.4	Slops Management	All slops will be collected in a dedicated system and reticulated to Site B for management in the existing waste disposal system. The slops management system at Site B4A is shown in Figure 4.3.	Operation	Record, observation	29/3/2022: Record sighted & Interview: - Vopak provided slop transfer register for review. - Cleanaway (24/3/2022) Waste Data Form for slops. - Vopak confirmed that all slops are returned to Site B holding tanks for processing				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	itus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G159	WMP	Table 4.6		 During Rainfall: Clean Stormwater System Any stormwater flow more than 5 L/s and the Northern Discharge Point will be pumped into a bunded area. Potentially Contaminated Stormwater System Water captured in the First Flush Pit will be pumped to the oil water separator for treatment and discharged in the Final Storage Pit. Implement the Controlled Discharge Protocol if Final Storage Pit exceeds 80% capacity. Following Rainfall: Clean Stormwater System Nil Potentially Contaminated Stormwater System The bunded areas and First Flush Pit will be inspected. The Major Leak or Spill Protocol will be implemented if there are significant floating oils in the water (ie floating oil volume is greater than 1% of water volume). If the inspection does not identify significant floating oils, water captured in the First Flush Pit and bunded areas will be pumped to the oil water separator for treatment. Treated water will be discharged to the Final Storage Pit. The Controlled Discharge Protocol will be implemented if the Final Storage Pit. The Controlled Discharge Protocol will be implemented if the Final Storage Pit exceeds 80% capacity or once all water from the First Flush Pit and bunded areas will be pumped to the oil water separator for treatment. Treated water will be discharged to the Final Storage Pit. 	Operation	Record, observation	29/3/2022: Interview - Vopak (MB) confirmed the procedure for stormwater containment, assessment and discharge. - Vopak (MM) confirmed that the daily walkover completed by the Operator assesses requirements for bund management during wet weather.				
G160	WMP			Clean Stormwater System • No controlled discharges from the Clean Water system will occur Potentially Contaminated Stormwater System • The First Flush Pit will be inspected prior to a controlled discharge occurring. If there is evidence of floating oils the water will be reticulated back through oil water separator for further treatment or to the slops system if required. • If no floating oils are observed controlled discharge into the Ports NSW stormwater system (Southern Discharge point) can commence. • Surface water monitoring will be undertaken in accordance with the Surface Water Monitoring Plan (see Section 5.1). Note: the stormwater storages provide sufficient storage to capture runoff from a short duration 5% AEP event which govern the design capacity of the Ports NSW stormwater system on Friendship Road. Controlled discharges will be required during longer duration events to avoid system overflows. Where possible, controlled discharges will be temporarily ceased during intense rainfall periods that may occur within a longer duration rainfall event.	Operation	Record, observation	 29/3/2022: Record sighted: Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria. 29/3/2022: Interview: Vopak (MM) confirmed that the daily walkover completed by the Operator assesses requirements for bund management during wet weather, and controlled discharge Vopak (MM & MB) confirmed that the process as described is being followed. Only 1 discharge event has been recorded. Vopak collected water samples and sent to Envirolab for analysis. 				
G161	WMP		Operating protocols - Major leak or Spill	The tank bunded areas and First Flush Pit are designed to capture any major leaks or spills that may occur. Each of these storages are blind sumps which means any leak or spill will be contained within the immediate catchment. The following water management protocol will be implemented if a major leak or spill is identified: • No water will be pumped from the storage until the leak or spill is investigated. • Once the leak has been investigated, contaminated water will be pumped to the slops system. If required, the area around the leak will be hosed down with the resulting water also pumped to the slops system. Refer to OEMP management plan for further information on systems and protocols to manage hazards associated with leaks and spills.	Operation	Record, observation	 29/3/2022: Record sighted: Vopak have provided a copy of the as built bund construction, and tank volume, and confirm that the bund achieves 110% capacity. 29/3/2022: Interview: Vopak (MM) confirmed that no leaks have been identified at B4A Site. 				
G162	WMP	5.1.1		Discharges from the Potentially Contaminated Stormwater System will be monitored in accordance with EPL6007 requirements (see Section 2.2) except for Biological Oxygen Demand (BOD). Monitoring of BOD is not proposed as this test has a laboratory assessment time of 5 days and analysis of Oil and Grease will identify any hydrocarbon contamination. Monitoring will be undertaken from the Final Storage Pit which receives treated water from the oil water separator (see Section 4.3). The monitoring will be undertaken when water from the Final Storage Pit is released via a controlled discharge following inspection (see Table 5.1). Table 5.1 describes the proposed monitoring.	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	tus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G163	WMP	Table 5.1	Oil and Grease - Milligrams per litre	Two individual grab samples per discharge event. Both of the samples must be collected within one hour of the commencement of discharge. The samples must be taken at a minimum interval of a five minutes apart. In the case of frequent discharge during rainfall events, no more than two discharge events	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G164	WMP	Table 5.1	pH - pH units	need be sampled per calendar month. Grab sample from the Final Storage Pit.	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G165	WMP	Table 5.1	Total Suspended Solids (TSS) - Milligrams per litre		Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G166	WMP	Table 5.1	Water level in Final Storage Pit - Water level (m)	Continuous - Continuous monitoring method	Operation	Record	22/4/2022: Record sighted: - Screen shot of continuous monitoring of the final stormwater pit level for discharge point 10.				
G167	WMP	Table 5.1	Controlled discharges - Discharge rate (L/s)	Continuous - Continuous monitoring method	Operation	Record	22/4/2022: Record sighted: - Email from Vopak stating that point 10 is only monitored prior to discharge. Point 16 is currently inaccessible for sampling.				
G168	WMP	5.1.2	Monitoring Methods	All monitoring will be undertaken in accordance with Approved Methods for Sampling and Analysis of Water Pollutants in New South Wales (DEC 2004).	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G169	WMP	5.1.3	Assessment Criteria	The surface monitoring results will be compared to concentration limits established in EPL6007 (except for BOD), which are reproduced in Table 5.2. There is no discharge volume criterion. This is because limits on discharge volumes will prevent the stormwater storages being fully dewatered in between rainfall events, increasing the risk of system overflows.	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G170	WMP	5.1.4	Exceedance Protocols	Due to laboratory assessment times, monitoring results will be available approximately five days after samples are collected. Once results are received, they will be reviewed within two days. The following exceedance protocol will be implemented if concentration limits (see Table 5.2) are exceeded: 1. The water management system will be reviewed to identify any cause for the exceedance. 2. The exceedance will be reported to the EPA in accordance with EPL requirements.	Operation	Record	29/3/2022: Record sighted: - Envirolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. All concentrations were below criteria.				
G171	WMP	5.2.2	Proposed Monitoring	 Groundwater monitoring bores will be installed at the locations and to the specifications recommended in Appendix A. Groundwater monitoring will be undertaken in the following three phases: Pre-operation: Monthly monitoring will be undertaken prior to the operation of the facility. The results from this monitoring will be used to identify any groundwater hydrocarbon contamination that exists prior to the storage and handling of hydrocarbons at the facility. Following the commencement of operations, the pre-operation data will be reviewed, and the presence of any identified hydrocarbon contamination will be discussed with the EPA. Operational period (initial two years): Quarterly monitoring will be undertaken for the initial two years of operations. Operational period (after two years): Bi-annual monitoring will be undertaken after the initial two year period. 	Operation	Record	29/3/2022: Record sighted: - PRM (October 2021) Water Quality Monitoring - Pre- operational, Site B4A, 37 Friendship Road, Port Botany, which provides results from 5 monitoring wells prior to filling the tanks. Results indicated no contamination was identified in the vicinity of MB02, where hydrocarbon odour was encountered during construction. - PRM (December 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Version A), which provides results following operation. Results indicated consistent results with baseline data and no observations of contamination was noted.				
				The monitoring timeframes will be revised if the assessment criteria are exceeded (see Section 5.2.2).			Other monitoring reports are not yet triggered.				
G172	WMP	Table 5.3	BTEX and TRH - Micrograms per litre	Described in Section 5.2.2 - Grab sample	Operation	Record	See G171				
G173	WMP	Table 5.3	Groundwater level - Water level (m AHD)	As per groundwater quality monitoring - Manual measurement	Operation	Record	See G171				
G174	WMP	Table 5.3	pH, Dissolved Oxygen, Electrical conductivity, temperature, redox (various units)	As per groundwater quality monitoring - In situ measurement using a water quality meter	Operation	Record	See G171				

Geosyntec ID	Document	SSD/EPL Condition	ltem	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	atus
		/ OEMP Section				/Observation			Compliant	Non- Compliant	Not Triggered
G175	WMP	5.2.1	Monitoring Methods	 All monitoring will be undertaken in accordance with Approved Methods for Sampling and Analysis of Water Pollutants in New South Wales (DEC 2004) and Australian standard AS/NZS 5667.11:1998 Water Quality – Sampling – Part 11, Guidance on Sampling of Groundwaters. The following Quality Assurance / Quality Control (QA/QC) procedures will be adopted each monitoring round: A duplicate sample will be collected from one of the five monitoring locations. A rinsate blank sample will be submitted to the laboratory. Both the duplicate and reinstate blank samples will be analysed for the hydrocarbon analytes (Table 5.3). 	Operation	Record	See G171				
G176	WMP	5.2.2	Assessment Criteria	All groundwater monitoring results will be assessed against the Default Guidelines Values (DGV) for toxicants in marine waters (95% level of species protection) that are provided in (ANZG 2018). Table 5.4 provides the concentration values for each analyte listed in Table 5.3. It is noted that ANZG (2018) does not provide DGVs for Polycyclic Aromatic Hydrocarbons (PAHs) and Total Petroleum Hydrocarbons (TPHs). This is because these tests screen for a full range of hydrocarbon related chemicals which have variable toxicity. Hence, the purpose of these tests is to identify the presence of hydrocarbon related chemicals. It is noted that there are no assessment criteria for groundwater level and physico-chemical parameters. These parameters are collected to assist with interpretation of any exceedances. For example, the groundwater level data can be used to establish flow direction at the time of sampling.	Operation	Record	See G171				
G177	WMP	5.2.3	Review Protocols	Groundwater monitoring results will be progressively assessed against the assessment criteria in Table 5.4. Any result that exceeds the DGVs or identifies the presence of PAH or TPHs will be reviewed. The review will investigate the potential sources of the contamination which could include: • Legacy factors identified by pre-operation monitoring; • External factors identified by results from perimeter bores and understanding of groundwater flow direction; • Internal factors identified by results from all bores and understanding of groundwater flow direction. Additional actions will be undertaken if the review establishes internal factors as being the likely source of contamination. These may include: further monitoring, inspection for leaks, and engaging a specialist to undertake a detailed review.	Operation	Record	See G171				
G178	WMP	6.1	Inspections	The water management system will be regularly inspected. The inspection will: • check for blockages to pipes and pipe inlets; • check mechanical equipment is operating correctly; • identify any leaks, spills or other sources of stormwater contamination. Records of inspections will be maintained. Refer Table 4.6 for inspections associated with wet weather and discharge protocols.	Operation	Record	 29/3/2022: Interview and observation: Vopak confirmed that the Operations manager for each day completes a daily checklist on maintenance of the facility, including the required water management systems inspections. Log sheet for the inspections and sampling sighted. 				
G179	WMP	6.2	Maintenance	The water management system will be maintained in a suitable condition to achieve its intended design function.	Operation	Record	 19/4/2022: Record sighted: Vopak maintenance work order for Ste B. 2M Pumps Vibration Analysis. Screen shot of PM Schedule for maintenance of parallel plate separator and IC pit cleaning env. 				
G180	WMP	A, Section 5 Appendix	Recommended bore construction details MB01 235044 6238802	 Proposed depth: 6.5m Proposed sump: 6 to 6.5 m Proposed screen: 3 to 6 m Proposed screen page: 2.5 to 6.5 m 	Operation Operation	Record Record	See G171 See G171				
		Appendix	335044, 6238892 MB02 335191, 6238845 MB03	 Proposed gravel pack: 2.5 to 6.5 m Proposed bentonite seal: 2 to 2.5 m Proposed surface cement seal: Surface to 2 m 		Record Record	See G171 See G171				
		A, Section 5 Appendix	335157, 6238767 MB04		•	Record	See G171				
		A, Section 5 Appendix	335025, 6238817 MB05 335003, 6238758		-	Record	See G171				

Geosyntec ID	Document	SSD/EPL Condition	Item	Condition	Audit Phase	Pre- review/Record	Evidence Collected / Observations	Independent Audit Findings and Recommendations	Co	mpliance Sta	itus
		/ OEMP Section				/Observation			Compliant		Not Triggered
G181	WMP	Appendix A, Section 5	Monitoring well installation	 The following should also be considered when installing groundwater monitoring bores for the site: monitoring bores should be screened across the groundwater table to detect any LNAPL's that could be leaking/spilled on site and any LNAPL's migrating onto site from other nearby operations; a qualified hydrogeologist, contaminated land specialist or other suitably qualitied professional, should be engaged to supervise the drilling works and ensure monitoring bores are constructed in accordance with the Minimum Construction Requirements for Water Bores in Australia3, and to ensure monitoring bores are screened across the groundwater table; on completion, monitoring bores should be developed in accordance with Minimum Construction Requirements for Water Bores in Australia; following bore development, an initial groundwater quality sample should be taken (and analysed at a NATA accredited laboratory for an appropriate suite of chemical parameters) that is consistent with the WMP and the static groundwater level should be recorded; a drilling completion report, summarising the monitoring bore installation program, should be surveyed for location and reference levels so that groundwater flow direction can be better estimated. 	Operation	Record	See G171				

OEMP Table (Provided as Appendix B of the OEMP)

Ite	Area	Impact	Environmental Classification	Description of Activity (Environmental Aspect)	Frequency of Activity	Incident (Actual or Potential)	Environmental Management Controls	Operational/Monitoring Measures	Person Responsible*	Frequency of Monitoring	Reporting Measures	Frequency of Reporting	Environmental Criteria/Objective	Relevant Plan/Stud		Evidence Collected / Observations	Independent Audit Findings and Compliant Compliant Non- Not Triggered Recommendatio
1	Air pollution																
1.2	B4A		Air emissions (VOCs, odour)	Storage of hydrocarbons in tanks / ship unloading operation	24 hours per day, 365 days a year / during ship s unloading	Fugitive emissions contributing to greenhou effect	 fixed roof tanks combustibles only. B4A for storage of materials with a vapour pressure less than 2mm of mercuny (0.27 KPa) at 25°C and 101.3 kPa as per POEO Regs 	- tank 2 yearly visual inspection, 10 yearly API inspections	Operations Manager	As per Preventative Maintenance schedule - refer to Me2 for details	- National Pollutant Inventory (NPI) reporting - Incident reporting to DPE / EPA - Vopak's internal incident reporting and investigation	Annual within 7 days	Refer to Air Quality Management Plan (EMM, 2021) Section 6.4	QMP (Appendix H	SSD 7000, Part B, I) Condition B14	29/3/2022: Interview: Vopak (MB & AN) states: - All tank roots are fixed. - Tanks are only used to store diesel (combustibles only). - First date of operation was 21 November 2021. Monitoring date has not been triggered. - NP has not yet been triggered. - No incident has occurred for site B4A. - Annual reporting has not been triggered. 29/3/2022: Record sighted: - Enablon Incident Reporting system, which provides all incidents in site B4A during construction and operation. - Example sighted on incident on 24/5/2021 regarding minor property damage. The incident has details, location, description, initial investigations, photos, approval status. This incident relating to environmental performance was recorded.	
2 2.6	Water pollut	Water pollution	Marine flora and fauna	Discharge of stormwater into Botany Bay	After rain events, significant spill	Contaminated stormwate reaching Botany Bay if stormwater is released before appropriate testin	(B4A). - Stormwater oily/water separator - Final gate valve linked	- Monitoring instruments and safety valves - First flush sampling - Stormwater management procedures including samples and field testing prior to release into Botany Bay (to comply with EPL requirements)		Ongoing during operations	- Water quality reporting to EPA (Annual) - Incident reporting to DPE, NSW Ports and EPA - VopaK's internal incident reporting and investigation	Ongoing during operations	Criteria for discharge to waters/effluent quality: BOD: 20 mg/L Oil and grease: 10 mg/L pH: 6.5-8.5 TSS: 30 mg/L (as per EPL)	Water Managemer Plan (B4A)	nt SSD 7000 B23 - 27	29/3/2022: Interview: - Only 1 discharge event has been recorded. Vopak collected water samples and sent Envirolab for analysis. - Annual return has not yet been triggered. 29/3/2022: Record sighted: - Envolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. A concentrations were below criteria.	
3.1	5oil and Gro B1, B2, B3 Tanks (Site B), B4A	Soil and groundwater contamination	General environment	Storage of fuel in tanks	24 hours per day, 365 days a year		alarms	- Groundwater monitoring (EPL monitoring points) - API tank inspections / preventative maintenance		As per Preventative Maintenance schedule - refer to Me2 for details	- Groundwater reporting to EPA (Bi-Annual) - Incident reporting to DPE, NSW Ports and EPA - Vopak's internal incident reporting and investigation - Spills recorded as part of TRC	Bi-Annual within 7 days TRC Monthly	Groundwater monitoring: Grab samples to be taken every 2 years and tested for benzene, ethyl benzene, polycyclic aromatic hydrocarbons, toluene, total petroleum hydrocarbons, sylene. NOTE: No wells in pipeline corridor (not required under EPL)	n/a	MP 06_089 MOD 2 · Schedule 3, Conditions 17, 19, 20 22 - Schedule 4, Condition 7	29/3/2022: Observation: - Bunding was observed around all tanks. Information by Vopak indicated the bunds has capacity of up to 110% of tank content (tank capacity is 35,000m3 each). 29/3/2022: Record sighted: - PRM (March 2020) Baseline Contamination Assessment, 39 Friendship Road, Port Botany NSW (Version B), which indicated sampling from 12 locations. Results indicate no soil or groundwater impact except for 1 fragment of asbestos. - PRM (October 2021) Water Quality Monitoring - Pre-operational, Site B4A, 37 Friendship Road, Port Botany, which provides results from 5 monitoring wells prior to filling the tanks. Results indicated no contamination was identified in the vicinity of MB02, where hydrocarbon odour was encountered during construction. - PRM (December 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Version A), which provides results following operation. Results indicated consistent results with baseline data and no observations of contamination was noted. - A sample of SOPs were sighted: - Vopak (Ø10/2021) Stormwater Management, which includes B4A expansion. - Vopak (Ø11/2021) Wate Management OPS11-01C. 29/3/2022: Interview: Vopak (MB) states that: - No incident or spills have been recorded. - All bunds have level detections and alarms.	d
3.2	B1, B2, B3 Tanks (Site B), B4A	aroundwater	General environment	Tank filling	Ongoing during operations	Fuel spill to ground due t overfilling of tanks	Tank gauging and high level alarms Independent high level shutdowns for each tank initiates terminal ESD o - Bunding provided for all tanks - Bunds have level detection and alarms - Standard operating procedures - Operator training	- Preventative maintenance for tank gauging and high level shutdowns - Groundwater monitoring (EPL monitoring points)	Operations Manager	As per Preventative Maintenance schedule - refer to Me2 for details	- Groundwater reporting to EPA (Bi-Annual) - Incident reporting to DPE, NSW Ports and EPA - VopaK's internal incident reporting and investigation - Spills recorded as part of TRC	Bi-Annual within 7 days TRC Monthly		n/a	MP 06_089 MOD 2 - Schedule 3, Conditions 19, 20, 22 - Schedule 4, Condition 7	See above for Item 3.1. 29/3/2021: Record sighted: - Vopak (21/7/2021) Sydney - BLB1 Shipping Operations (Fuels). - Vopak B4 Training PowerPoint (14 & 16 September 2021). - Training record sighted from Microsoft Teams and Excel spreadsheet for various onlir training and site walkover).	ie
3.4	All	Soil loss and sedimentation of marine waters		Rainfall and storm events	Rainfall and storm events	Erosion and sedimentation	- Site is sealed with some on areas of gravel - Operator training		Operations Manager				No specific criteria for soil quality/loss in EPL	n/a	MP 06_089 MOD 2 - Schedule 3, Conditions 22 - Schedule 4, Condition 7	29/3/2021: Observation: - Drain wardens observed around stormwater drains. 29/3/2022: Record sighted: - Vopak (9/10/2021) Stormwater Management, which includes B4A expansion. - Envolab report 289791, providing 2 water results for TSS, BOD, pH, oil and grease. A concentrations were below criteria. 29/3/2022: Interview: - Only 1 discharge event has been recorded. Vopak collected water samples and sent Envirolab for analysis. - Annual return has not yet been triggered.	

OEMP Table (Provided as Appendix B of the OEMP)

Item C	perational Area	Impact	Environmental Classification	Description of Activity (Environmental Aspect)	Frequency of Activity	Incident (Actual or Potential)	Environmental Management Controls	Operational/Monitoring Measures	Person Responsible* Frequency of Monitoring	Reporting Measures	Frequency of Reporting	Environmental Relevant Criteria/Objective Plan/Study	Link to DPIE Conditions of Approval	Evidence Collected / Observations	Independent Compliance Status Audit Findings Compliant Non- Not Compliant Triggered Recommendatio
3.5 AI	l g	Soil and groundwater contamination	General environment	Storage of fuel in tanks	24 hours per day, 365 days a year	Hazardous materials escaping to ground and/o water due to failure of bund drainage pit (eg cracked wall)	- Procedural to inspect and pump out bund pits after rain events / spills - Operator training	- Groundwater monitoring (EPL monitoring points)	Operations Manager 2 yearly	- Groundwater reporting to EPA (Bi-Annual) - Incident reporting to DPE, NSW Ports and EPA - VopaK's internal incident reporting and investigation - Spills recorded as part of TRC	Bi-Annual within 7 days TRC Monthly	Groundwater monitoring: Grab samples to be taken every 2 years and tested for benzene, ethyl benzene, polycyclic aromatic hydrocarbons, toluene, total petroleum hydrocarbons, xylene. NOTE: No wells in pipeline corridor (not required under EPL)	MP 06_089 MOD 2 - Schedule 3, Condition 22 - Schedule 4, Condition 7	 29/3/2022: Observation: Bunding was observed around all tanks. Information by Vopak indicated the bunds has capacity of up to 110% of tank content (tank capacity is 35,000m3 each). 29/3/2022: Record sighted: PRM (March 2020) Baseline Contamination Assessment, 39 Friendship Road, Port Botany NSW (Version B), which indicated sampling from 12 locations. Results indicated no soil or groundwater impact except for 1 fragment of asbestos. PRM (October 2021) Water Quality Monitoring - Pre-operational, Site B4A, 37 Friendship Road, Port Botany, which provides results from 5 monitoring wells prior to filling the tanks. Results indicated no contamination was identified in the vicinity of MB02, where hydrocarbon odour was encountered during construction. PRM (December 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Version A), which provides results following operation. Results indicated no solitor substement and no observations of contamination was noted. 29/3/2022: Interview: Vopak (MB) states that: No incident or spills have been recorded. All bunds have level detections and alarms. 	
	inp bays	Soli and groundwater contamination	General environment	Fuel transfer in pump bays	24 hours per day, 365 days a year	Fuel spill to ground due to failure of pumps (eg mechanical seal failure) and filter blockages	- Bund provided at pump bays - alarms (coalescing filter and product transfer pump) - Operator training - Work orders	- Maintenance log book/Me2 - Tests and inspections - Preventative maintenance	As per Preventative Operations Manager Maintenance schedule - refer to Me2 for details	- Groundwater reporting to EPA (Bi- Annual) - Incident reporting to DPE, NSW Ports and EPA - Vopak's internal incident reporting and investigation	24 hours per day, 365 days a year	n/a	MP 06_089 MOD 2 - Schedule 3, Condition 22 - Schedule 4, Condition 7	 29/3/2022: Observation: Bunding was observed around all pumps. No sheen was observed on the stormwater in the bunds. 29/3/2022: Record sighted: - PRM (March 2020) Baseline Contamination Assessment, 39 Friendship Road, Port Botany NSW (Version B), which indicated sampling from 12 locations. Results indicated no soil or groundwater impact except for 1 fragment of asbestos. - PRM (October 2021) Water Quality Monitoring - Pre-operational, Site B4A, 37 Friendship Road, Port Botany, which provides results from 5 monitoring wells prior to filling the tanks. Results indicated no contamination was identified in the vicinity of MB02, where hydrocarbon dour was encountered during construction. - PRM (Decober 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Version A), which provides results following operation. Results indicated on soilstent results with baseline data and no observations of contamination was noted. - ALS (22 February 2022) Vibration Analysis Report for Vopak Terminals - Port Botany, Now, which provides maintenance recommendations. Based on the information by Vopak (MB), any recommendations will require preparation of WOOI (work order out of inspection), which will require action. This set of recommendations have not yet been actioned as they were recent. 29/3/2022: Interview: Yopak (MB) states that: No incident or spills have been recorded. All bunds have level detections and alarms. 	
3.9 B4			General environment	Fuel / slops transfel between Site B and B4A storages	Ongoing during operations	Leakage of pipeline leading to impact on stormwater runoff from thu undreground pipeline culvert and soil/groundwater beneath	tested as per Vopak	Inspection and preventative maintenance for pipelines	Operations Manager TBC	- Incident reporting to DPIE, NSW Ports and EPA - Vopak's internal incident reporting and investigation	Ongoing during operations		SSD 7000 C9	29/3/2022: Observation: - Bunding was observed around all pumps. - No sheen was observed on the stormwater in the bunds. 29/3/2022: Record sighted: - PRM (March 2020) Baseline Contamination Assessment, 39 Friendship Road, Port Botary NSW (Version B), which indicated sampling from 12 locations. Results indicated no soil or groundwater impact except for 1 fragment of asbestos. - PRM (October 2021) Water Quality Monitoring - Pre-operational, Site B4A, 37 Friendship Road, Port Botany, which provides results from 5 monitoring wells prior to filling the tanks. Results indicated no contamination was identified in the vicinity of MB02, where hydrocarbon odour was encountered during construction. - PRM (October 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Wrsiton A), which provides results following operation. Results indicated on solutions a onulared during construction. - PRM (Idcoember 2021) Water Quality Monitoring - Round 2, Site B4A, 37 Friendship Road, Port Botany (Wrsiton A), which provides results following operation. Results indicated consistent results with baseline data and no observations of contamination was noted. 29/3/2022: Interview: Vopak (MB) states that: - No incident or spills have been recorded. - All bunds have level detections and alarms.	
4 W			General environment	Waste disposal	24 hours per day, 365 days a year	Incorrect hazardous waste disposal (eg tank sludge, contaminated hard waste)	contractors	- Waste disposal records - hardcopy folders with Logistics	Operations Manager	- Annual NPI reporting for liquid and hard waste	Annual	Compliance with OEH Waste Classification Guidelines n/a	MP 06_089 MOD 2 Schedule 3, Condition 28	29/3/2022: Interview: - There has been no disposal of hazardous waste.	
4.2 (S	ump bays ite B), <mark>B4A</mark> i	inappropriate disposal	General environment	Waste (dewatering) from tanks - slops	24 hours per day, 365 days a year	Tank condensate and water draw off from storage tanks incorrectly disposed of into oily/water stormwater treatment system	(slops transfer to Site B from B4A via pipeline)	- Waste disposal records - hardcopy folders with Logistics - Slops volume tracked as part of TRC	Operations Manager	- Annual NPI reporting for liquid and hard waste - TRC monthly	Annual	Compliance with OEH Waste Classification Guidelines	MP 06_089 MOD 2MI 06_089 MOD 2 Schedule 3, Conditior 28	29/3/2022: Record sighted: Cleanaway (24/3/2022) Waste Data Form for slops.	
5.1 Pt (S	ump bays	Minimal impact from ongoing operations.			-	-	- Sufficient space within terminal boundaries for tankers to queue - Onsite parking sufficient for staff, contractors and visitors	-		-	-	No traffic complaints No traffic complaints Plan (Appendix D)	1(d)	29/3/2022: Interview: - Vopak states that no traffic complaint has been identified. 29/3/2022: Observation: - Sufficient parking observed. - Sufficient space for vehicles observed.	

OEMP Table (Provided as Appendix B of the OEMP)

It	em Operation Area	al Impact	Environmental Classification	Description of Activity Frequency of (Environmental Activity Aspect)	Incident (Actual or Potential)	Environmental Management Controls	Operational/Monitoring Measures	Person Responsible*	Frequency of Monitoring	Reporting Measures	Frequency of Reporting	Environmental Criteria/Objective	Relevant Plan/Study	Link to DPIE Conditions of Approval	Evidence Collected / Observations	Non- Not Compliant Triggered
6.2		A operations.	from ongoing		-	-	-	-	-	-	-	No noise complaints	n/a	-	29/3/2022: Interview: - Vopak states that no noise complaint has been identified. 29/3/2022: Observation: - No unacceptable noise was observed.	
7	Other (fau	na and flora)							-	-						
7.1	All	Potential hazard to airport operations	General environment	Attraction of bird species that pose potential risks and hazards to airport operations 24 hours per day, 365 days a year	Attraction of bird species that pose potential risks and hazards to airport operations		Housekeeping measures (removal of food scraps) Regular terminal inspections to locate evidence of nesting (especially under roof structures) Regular terminal inspections to locate water	Operations Manager	-	No specific reporting measures for bird hazard management	-	No birds nesting on Site B / BLB1/BLB2 No complaints from airport authorities	-	Greens Port guidelines	29/3/2022: Interview & record sighted: - Vopak (TM) states that daily inspection & weekly reports provide unexpected finds information (e.g. birds). No birds have been reported lately, noting that bird nest was reported outside the Audit site in the past. 29/3/2022: Observation: - No bird or waste that could attract waste was observed.	
8	Other (vis	ual amenity, socio	-economic, herit	age)		-										
8.1	Pump bays (Site B), <mark>B</mark> 4	Minimal impac from ongoing operations.	t	-	-	-	-	-	-	-	-	-	-	MP 06_089 MOD 2 Schedule 3, Condition 24	29/3/2022: Observation: No amenity impact was observed. The site is located within surrounding industrial area.	

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