

# Shoalhaven Starches Expansion Project

## Independent Environmental Audit Report

Malo Sustainability Consulting  
For Manildra Group



Prepared for:

Manildra Group

Shoalhaven Starches

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# Executive Summary

Malo Sustainability Consulting was commissioned by Shoalhaven Starches Pty Ltd (Shoalhaven Starches) to undertake an independent environmental audit of compliance as required under Project Approval 06\_0228 approved on 28 January 2009.

Of the 167 conditions in the approval, Shoalhaven Starches were found have complied with 116 conditions and not complied with 15 conditions. An additional 36 conditions were not triggered.

Three of the non-compliances related to actual impacts to the environment:

- A discharge of starch into the Abernathy's Creek;
- An exceedance of the opacity limits of the EPL; and
- An exceedance of the noise limits of the approval

One non-compliance related to the stockpiling of coal and woodchip without appropriate prior approval.

The remaining non-compliances were related to documentation submissions, notification requirements and approvals.

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# 1 Introduction

Malo Sustainability Consulting (Malo) was commissioned by Shoalhaven Starches Pty Ltd (Shoalhaven Starches) to undertake an independent environmental audit of compliance as required under Project Approval 06\_0228 approved on 28 January 2009.

## 1.2 Project Background

The Shoalhaven Starches factory located on Bolong Road, Bomaderry, produces a range of products for the food, beverage, confectionary, paper and motor transport industries including starch, gluten, glucose and ethanol.

Ethanol production results in some liquid and solid by-products, which are processed through the stillage recovery process plant. The solids in the stillage are recovered as Dried Distillers Grains (DDG) and sold as a high protein animal feed. The waste water resulting from the ethanol production is treated in the site's wastewater treatment plant and is re-used in the factory, with surplus treated water irrigated onto Shoalhaven Starches Environmental Farm to the north of Bolong Road, which comprises over 1000 ha of land used for fodder crops, pasture and cattle grazing.

In 2009 the Minister for Planning issued Project Approval 06\_0228 pursuant to the then Part 3A of the Environmental Planning & Assessment Act for an application made by Shoalhaven Starches to increase its ethanol capacity to meet the expected increase in demand for ethanol arising from the NSW Government ethanol mandate by upgrading the existing ethanol plant located at the Shoalhaven Starches Plant at Bomaderry.

## 1.3 Audit Team

The audit was led by Jon Panic of Malo Sustainability Consulting. Jon has a Bachelor of Environmental Science and is an Exemplar (RABQSA) certified Lead Environmental Auditor.

Jon has over 15 years environmental and sustainability management experience. He has led independent audits for a number of major projects in New South Wales and Queensland on behalf of state planning authorities.

It was agreed with the Department of Planning and Environment (DPE) that technical specialists were not required for the audit.

## 1.4 Audit Objectives

This independent audit is required to meet conditions prescribed in Schedule 4 of the Project Approval. Condition 4 of Schedule 4 states:

*Within 12 months of the commencement of operations and every three years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. The audit must:*

- a) *be conducted by a suitable qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary.*
- b) *be undertaken in consultation with EPA, DWE and Council.*
- c) *assess the environmental performance of the project and undertake any works necessary to determine whether it is complying with the relevant standard, performance measures and statutory requirements.*
- d) *review the adequacy of any strategy/plan/program required under this approval and if necessary.*
- e) *recommend measures or actions to improve the environmental performance of the project and/or any strategy/plan/program required under this approval.*

## **1.5 Audit scope**

The scope of the audit was to include the following conditions in Shoalhaven Starches Expansion Project Approval (Consolidated) 06\_0228 up to and including MOD 15:

- Schedule 2 – Administrative Conditions
- Schedule 3 – Specific Environmental Conditions
- Schedule 4 – Environmental Management, Reporting and Auditing

## **1.6 Audit period**

The audit covered the three years since completion of the most recent Independent Environmental Audit in July 2016.

## 2 Methodology

### 2.2 Auditor Approval

The Lead Auditor was approved by DPE on 11 March 2019. See Appendix B for a copy of the approval letter.

### 2.3 Scope Development

The final scope for the audit was agreed with NSW DPE on 28 March 2019, taking into account:

- the consolidated approval requirements;
- the Independent Audit Guidelines (2018); and
- the Secretary's Audit Initiation Letter

The agreed scope coverage is summarised in Table 1 below.

Table 1 Audit Scope

Consolidated Approval Requirement	Requirement in DPE Audit Initiation Letter	Requirement in Independent Audit Guidelines June 2018	Scope coverage	Reference in Report
<p>Within 12 months of the commencement of operations, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <p>be conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been endorsed by the Secretary;</p>	<p>The Department approves the proposed Lead Auditor Jon Panic from Malo. In undertaking the audit, Malo must ensure the audit:</p> <ul style="list-style-type: none"> <li>- Is conducted in accordance with AS/NZS ISO 19011:2003 Australian / New Zealand Standard: Guidelines for quality and / or environmental management systems auditing</li> <li>- Not use the term “partial compliance”.</li> </ul>	<ul style="list-style-type: none"> <li>• Audits undertaken in accordance with audit schedule</li> <li>• Independent Audits must only be undertaken by a suitably qualified, experienced and independent auditor.</li> <li>• Independent Audits must not commence until the proposed auditor has been agreed to in writing by the Planning Secretary.</li> </ul>	<p>DPE letter demonstrated endorsement by the Secretary.</p> <p>Audit conducted by Audit Team Leader Jon Panic and generally in accordance with AS/NZS ISO 19011:2003. No specialists are required in this audit.</p> <p>Audit findings terms are limited to either “compliance”, “non-compliance” “Not triggered”.</p> <p>Audit undertaken during March-May 2019 with final report submission to DPE 21 June 2019.</p>	<p>Appendix B</p>
<p>be undertaken in consultation with EPA, DPI and Council;</p>		<p>The auditor must consult with the Department, and other agencies and stakeholders, including the Community Consultative Committee (if one is required for the project), to obtain their input into the scope of the audit.</p>	<p>Auditor consulted in writing and / or by phone with each of EPA, DPI and Council requesting feedback on Shoalhaven Starches environmental performance during the audit period.</p> <p>Deana Burns from DEP was consulted.</p>	<p>Section 2.6</p>



Consolidated Approval Requirement	Requirement in DPE Audit Initiation Letter	Requirement in Independent Audit Guidelines June 2018	Scope coverage	Reference in Report
d) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,	Review the adequacy of plans and programs required under this consent	A high-level assessment of whether Environmental Management Plans and Sub-plans are adequate	Based on findings of compliance assessment and site inspection, determined whether any issues are being poorly or ineffectively managed and review relevant strategies / plans / programs required under this approval to determine if (in)adequacy of these documents is contributing to poor / ineffective management.	Section 3.5
e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.	<ul style="list-style-type: none"> <li>- Includes recommended actions in responses to non-compliances</li> <li>- identifies opportunities for improved environmental management and performance</li> </ul>		Based on findings of compliance assessment; site inspection and strategy/program review, made recommendations for improved environmental management and performance and actions to respond to any non-compliance.	Table 5
		The status of implementation of previous Independent Audit findings, recommendations and actions (if any);	Reviewed the status of implementation of actions against previous audit findings	Section 3.4
		A high-level review of the project's environmental management systems (if any), including assessment of any third-party certification of them, the type, nature and scope of the systems having regard to the nature and scale of the development, and the implementation of the systems. It is not expected that an	High level review of the EMS including findings of the most recent third-party audit and any action taken to manage any identified deficiencies.	Section 3.6

Consolidated Approval Requirement	Requirement in DPE Audit Initiation Letter	Requirement in Independent Audit Guidelines June 2018	Scope coverage	Reference in Report
		Independent Audit comprises a management system audit, however any key deficiencies identified in the system should be discussed		
		Any other matters considered relevant by the auditor or the Department taking into account relevant regulatory requirements and legislation and knowledge of the development's past performance.	No items raised or identified.	NA

## 2.4 Audit Processes

The following processes were adopted to determine the compliance status for each approval condition and determine if post-approval documents are adequate:

- Review of relevant records, documents and reports. This typically included management plans, strategies, monitoring reports, auditing reports, maintenance records, training records and training presentations. Letters, emails and other communications were also reviewed. Where evidence included large volumes (e.g. weekly inspection records or daily cleaning records) a sample was reviewed and only interrogated further if the sampled evidence did not comply.
- Interviews of relevant site personnel. For this audit that was generally the Quality Assurance and Environmental Coordinator who has responsibility for managing compliance with environmental requirements and ensuring these are communicated throughout the organisation.
- Implementation evidence review to determine if plans and strategies are being implemented. This was carried out on a risk basis by reviewing one or more examples initially. That is, interrogation of implementation increased when evidence of implementation was not found or was found to be lacking. Implementation evidence can be in document form or visual (verified in site component of audit).

## 2.5 Site personnel interviews

Table 2 lists the personnel interviewed during the audit. All personnel were available as required.

Table 2 Personnel interviewed during audit

Title
Quality Assurance & Environmental Coordinator
Farm Manager
Quality and Assurance Manager (Opening meeting)
Energy and Sustainability Manager (Opening meeting)

### 2.5.1 Opening and Closing Meetings

An Opening meeting was held on 21 March 2019 and attended by:

- Independent Auditor
- Quality Assurance & Environmental Coordinator
- Quality and Assurance Manager
- Energy and Sustainability Manager

During the meeting the following items were discussed:

- Audit scope
- Methodology
- Timing

A Closing Meeting was held at the completion of the site visit on 9 May 2019 during which the preliminary audit findings were discussed; along with some initial recommendations and potential post-audit actions. The meeting was attended by the Independent Auditor and the Quality Assurance & Environmental Coordinator.

## 2.6 Stakeholder consultation

The auditor contacted the following stakeholders to inform them that the audit was being undertaken and to request any input relating to environmental management at the site; or Shoalhaven Starches compliance with their approval more broadly:

- Shoalhaven City Council (Council)
- NSW Environment Protection Authority (NSW EPA)
- Department of Planning and Environment (NSW DPE)
- Department of Industry / Lands and Water (DILW)

## 2.7 Compliance descriptors

Following consultation with DPE, the compliance descriptors shown in Table 3 were adopted for the audit.

**Table 3 Compliance Descriptors**

Descriptor	Abbrv	Comment
Compliant	C	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	NC	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	NT	A requirement has an activation or timing trigger that has not been met at the time when the audit is undertaken, therefore an assessment of compliance is not relevant.

## 2.8 Limitations

This report has been prepared for Shoalhaven Starches to fulfil the requirements of the Independent Environmental Audit as specified in the Project Approval.

The scope of the audit, and subsequent report was limited and should not be used for any purpose other than that described above.

The following should be taken into account when reading and using this report:

- 1 A site visit was undertaken during this audit, the purpose of which was to familiarise the auditor with the site layout, site conditions and natural environment. Whilst the auditor requested to be shown all features of the sites that are impacted (environmentally) by the operations, the auditor has relied on information provided by Shoalhaven Starches representatives during these site visits, including the selection of the areas of the site for the site inspection.
- 2 Shoalhaven Starches provided at their sole discretion all of the documentation that has been accessible to the auditor. The auditor has relied on the information and documentation provided and has relied on Shoalhaven Starches to provide all relevant and pertinent information. It should be noted that the range of documentation provided may not have included all of the relevant environmental related records held. The auditor asked to receive all relevant documentation. The auditor has not had the opportunity to verify any of the information provided nor have they had the opportunity to consult with any party other than Shoalhaven Starches' nominated representatives during this audit.

## 3 Audit Findings

### 3.1 Approvals and Documents Audited

The approvals and documents audited included:

- Project Approval (Consolidated) 06\_0228 (up to MOD 15)
- Management Plans (refer Appendix A for details)

### 3.2 Compliance Assessment Summary

Table 4 shows a summary of the audit findings. The full audit tables are included in Appendix A.

Table 4 Summary of audit findings

Schedule	Compliant	Non-compliant	Not triggered	Total
2 - Administrative Conditions	16	4	8	28
3 - Specific Environmental Conditions	92	9	28	129
4 - Environmental Management, Reporting & Auditing	8	2	0	10
<b>Total</b>	<b>116</b>	<b>15</b>	<b>36</b>	<b>167</b>

Table 5 presents a summary of the non-compliances and the recommendations for each.

Table 5 Non-compliances 2019 Audit

Sched	Cond	Requirement	Finding	Recommendation
2	2	The Proponent shall carry out the project generally in accordance with the:  a) EA and associated site plans (see Appendix 2);  b) amended modification proposal MP 06_0228 MOD 1 et al.	The Proponent was issued a PIN for non-compliance with this condition.  Notwithstanding additional non-compliances found during the audit for other specific conditions, the auditor considers the Proponent to have carried out the project generally in accordance with the requirements listed.	Consider developing a document that briefly describes each MOD and a summary of the approved works for distribution to key / relevant staff to minimise the risk of unapproved works being carried out on site.
2	8B	Within three (3) months of the date of approval of MP 06_0228 MOD 5, the Proponent shall:  a) obtain and provide copies to the Secretary of all necessary building certificate(s) from Council for any structures proposed as part of MP 06_0228 MOD 5 that have been constructed or partially constructed prior to the approval of MP 06_0228 MOD 5; and  b) ensure that all new structures, and any alterations or additions to existing structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.	Building certificate not yet obtained	Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system
2	8C	By the end of July 2018, the Proponent shall provide copies of building	Building certificate applications were submitted	Ensure all approval requirements are captured, tracked and assigned a

Sched	Cond	Requirement	Finding	Recommendation
		certificates, where required, to demonstrate compliance with the BCA for the alterations to structures and additional structures listed in Table A. If an item in Table A does not require a building certificate in accordance with the BCA, the Proponent shall provide written evidence, to the satisfaction of the Secretary.	in June 2018, however inspections and certificates have not been issued.	responsibility in the compliance management system
2	11	The Proponent shall ensure that all plant and equipment used on the site is: a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner.	The requirements of the condition are generally being met; however, the Proponent was issued a fine by the NSW EPA during the audit period that resulted from activities not being carried out in a competent manner.	Appropriate corrective actions (including responses to the incident accepted by the EPA) have already been put in place. No further recommendation is considered necessary.
3	9	The Proponent shall ensure the emissions from boiler stacks 2, 4 and combined boiler stack 5 and 6 comply with the limits in the EPL.	One exceedance of the EPL opacity limit was recorded during the audit period.	Appropriate corrective actions (including preventative maintenance) have already been put in place. No further recommendation is considered necessary.
3	12	The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.	On one occasion the noise for the plant marginally exceeded the current EPL limit.	Installed new silencer and low noise fan on Gluten Dryer No.2. No further recommendation is considered necessary.
3	17	The Proponent shall store all chemicals, fuels and oils used on site in appropriately bunded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund. These bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or DECC's Storing and Handling Liquids: Environmental Protection manual.	The Proponent has not yet completed a review of the hazardous substance storage depots as recommended in the 2016 audit.	The auditor notes that a consultant has been engaged to undertake the review of the hazardous substance storage depots and it is scheduled to be completed by December 2019. No further recommendation is considered necessary.
3	22D	Stormwater controls were not implemented within 3 months of the date of the approval.	Stormwater controls were not implemented within 3 months of the date of the approval.	Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system
3	22E	Prior to the commencement of construction of MOD 12, the Proponent shall re-instate the table drain on the southern side of Bolong Road to the east of the distillery access. The works shall be completed to the satisfaction of Council.	MOD 12 construction commenced prior to re-instating the table drain.	Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system
3	26	The Proponent shall prepare a Flood Mitigation and Management Plan for the project to the satisfaction of the Secretary. This plan must: a) be prepared in consultation with Council and be submitted to the Secretary for approval within 12 months of this approval;	The flood marker required by the Plan had not been installed.	The auditor notes that the Proponent receives an early flood warning from the SES when the level in the Shoalhaven River near the Nowra Bridge reaches a rising level of 1.3m AHD and responsibility for receiving SES and Flood Watch warnings has been assigned to the WHS Manager. Accordingly, the

Sched	Cond	Requirement	Finding	Recommendation
		<p>b) include:</p> <ul style="list-style-type: none"> <li>baseline data on local and regional flooding and the predicted flood impacts of the project;</li> <li>details of all reasonable and feasible measures that would be implemented to minimise on-site and off-site flooding;</li> <li>procedures for the monitoring, assessment and compensation of any flood impacts caused by the project;</li> <li>a program for contribution toward the ALERT Flood Warning System operated by Council and the Bureau of Meteorology; and</li> <li>procedures for collaboration and coordination with the paper mill with respect to flood emergency planning.</li> </ul>		<p>auditor recommends that the Proponent either installs the marker, or reconsiders, in consultation with Council, whether this management measure is necessary as part of the overall flood warning system.</p>
3	27A	<p>Prior to the commencement of operation of any part of MOD 12, or no later than 31 March 2018, the Proponent shall complete the road and parking works in accordance with the plans approved by Council, as described in Condition 27. The Proponent shall submit works-as-executed plans to Council one month after the completion of the works, or no later than 30 April 2018.</p> <p>Note: The works-as-executed plans shall show the completed works compared to the approved plans.</p>	<p>The works have not been carried out in the agreed time.</p>	<p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system</p>
3	27B	<p>No later than 31 May 2018, the Proponent shall provide written evidence to the Secretary of Council's acceptance of the works-as-executed plans and Council's acceptance of care and maintenance responsibilities for the section of Bolong Road from Railway Street to the Dairy Farmers site access.</p>	<p>The works have not been carried out in the agreed time.</p>	<p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system</p>
3	43	<p>The Proponent shall prepare and implement a Vegetation Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>a) be prepared in consultation with DWE and Council and be submitted to the Secretary for approval within 6 months of this approval;</li> <li>b) be prepared in accordance with DWE's Guidelines for Controlled Activities – Vegetation Management Plans; and</li> <li>c) include: <ul style="list-style-type: none"> <li>• a Landscape Plan for the project, which identifies screen plantings to minimise visual impacts;</li> <li>• detailed plans and procedures to: <ul style="list-style-type: none"> <li>- restore and maintain the waterways</li> </ul> </li> </ul> </li> </ul>	<p>The plan was not submitted within the required timeframe.</p>	<p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system</p>

Sched	Cond	Requirement	Finding	Recommendation
		and riparian zones of Shoalhaven River, Bomaderry Creek, Abernathy's Creek and Broughton Creek on the site; - manage weeds in the vicinity of the riparian zones; - integrate works into the proposed landscaping for the rest of the site; - manage impacts on fauna; and - monitor the performance of the proposed restoration works.		
4	2A	The Proponent shall notify the Secretary and any other relevant agencies of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment associated with the facility immediately after the Proponent becomes aware of the incident.	On one occasion an incident was not reported to Planning	Ensure all notification requirements are assigned a responsibility and appropriate systems are in place to trigger them when an incident occurs.
4	2B	Within 7 days of the date of this incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident.	On one occasion an incident was not reported to Planning within 7 days.	Ensure all notification requirements are assigned a responsibility and appropriate systems are in place to trigger them when an incident occurs.

### 3.3 Agency Notices and Orders

There was one penalty infringement notice and one agency penalty notice issued during the audit period.

The penalty infringement notice was issued by DPE for storage of coal and wood chip stockpiles without approval. A number of corrective actions were implemented, and an EA modification was submitted and approved.

The agency penalty notice was a fine issued by the NSW EPA for a discharge of process water to Abernathy's Creek. The EPA noted the measures and actions taken by the Proponent to minimise the discharge, as well as extensive rectification actions and measures to prevent a recurrence. Consideration of the Proponents regulatory history was also considered in determining the appropriate regulatory response, which was ultimately a \$15,000 fine.

Further, a *warning* was issued due to failure to notify DPE of an incident. The auditor notes that the EPA were notified of this incident and considered the action taken to address the incident to be appropriate.

### 3.4 Follow up on 2016 Audit Findings and Recommendations

Table 6 shows a summary of the findings from the 2016 audit, including an update on actions taken to close out the recommendations.

Table 6 Follow up on non-compliances from 2016 Independent Audit

Cond.	Requirement (Summary)	Auditors finding	Auditors recommendation	Shoalhaven Starches Action Plan	Status
2(8)	The Proponent shall ensure that all new buildings and structures on the site are constructed in accordance with the relevant requirements of the BCA. Notes: <ul style="list-style-type: none"> <li>• Under Part 4A of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.</li> <li>• Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</li> </ul>	Construction certificates were not obtained prior to the construction of four silos on site in relation to MOD 5.	Ensure approvals (including construction certificates) are obtained for all new construction work on site	Project Manager's and Engineers have been reminded to obtain construction certificates before commencing construction.	Complete.
2(8b)	8B. Within three (3) months of the date of approval of MP 06_0228 MOD 5, the Proponent shall: a) obtain and provide copies to the Secretary of all necessary building certificate(s) from Council for any structures proposed as part of MP 06_0228 MOD 5 that have been constructed or partially constructed prior to the approval of MP 06_0228 MOD 5; and b) ensure that all new structures, and any alterations or additions to existing structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.	Documentation was not obtained within three months of the date of approval of MOD 5	Ensure documentation required under this approval is submitted within the required timeframes	Obtain Building Certificate (BC) for DDG Pellet Plant (MOD 4 & 5)  Project Manager's and Engineers have been reminded to obtain construction certificates before commencing construction.	Ongoing  BC application submitted to Council on 13-1-16.  Documentation as requested by Council submitted on 29-4-16.  Final BCA Completion Certificate sent to Council 26-10-17.  Site inspection of DDG Pellet Plant Building by Council on 9-10-2018.  SS to complete further works and final inspection required by Council. Due May 2019.
3(12)	The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.	One instance was recorded at 'Nobblers Lane' (August 2015) in which EPA Noise Limits were not complied with.	Review noise management controls to ensure that there are no exceedances of the stipulated noise limits.	Review complete. Gluten Dryer silencer to be replaced.	Complete.  New silencer installed on Gluten Dryer #2 in Feb 2017.

Cond.	Requirement (Summary)	Auditors finding	Auditors recommendation	Shoalhaven Starches Action Plan	Status
3(15)	Except as may be expressly provided in an EPL for the project, the Proponent shall: a) comply with Section 120 of the POEO Act; and b) not discharge any wastewater, including treated wastewater to the Shoalhaven River.	Starch was discharged to Shoalhaven River on the 19th of March 2014	Review wastewater discharge controls to ensure there are no discharge incidents that do not comply with this approval or the POEO Act	Incident report submitted to EPA on 24-3-14. Review of incident & implementation of corrective actions complete.	Complete. EPA letter dated 2-5-14 closing out incident.
3(17)	The Proponent shall store all chemicals, fuels and oils used on site in appropriately bunded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund. These bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or DECC's Storing and Handling Liquids: Environmental Protection manual.  Note: To avoid any doubt, this condition does not apply to the fermenters on site.	Not all chemicals were stored in bunded areas during site visit.	Review bunding on site and ensure all chemicals and fuels are stored in appropriately bunded areas	Undertake review of bunding on site.	Commenced  External consultant has been engaged to complete review against relevant Aust. Stds.  Estimated date of completion December 2019.
3(27C)	The Proponent shall remove the informal access point located to the east of Access Point 1 and reinstate the road verge to the satisfaction of Council, by the end of April 2013.	The access point was removed. However, no evidence of Council satisfaction was received.	Ensure documentation required under this approval is submitted within the required timeframes	Send letter to Council advising that access road has been closed off.	Complete.  Email sent 12-5-16. Council approval email dated 30-5-16
3(31)	31. The Proponent shall: a) ensure that all internal roads and parking on site complies with AS2890.1:2004 and AS2890.2:2002, or their latest versions; b) construct at least 60 new parking spaces on the factory site, in accordance with the plans in Appendix 2C, by the end of April 2013; c) construct at least 30 new parking spaces at the proposed packing plant prior to the commencement of operations at the plant; and d) ensure that pedestrian access and car parking complies with the BCA; to the satisfaction of the Secretary.	Council approval has not been obtained. Noted that during a site visit by Andrew Lissenden (Council) in February 2016 it was indicated that a response will be provided to SS in relation to on-site car parking & required road upgrade works. This has not yet been received.	Ensure documentation required under this approval is submitted within the required timeframes	Awaiting response from Council.	Complete.  N/A. Condition 31 requirements have been changed via MOD 12 approval dated 1-9-2017.

Cond.	Requirement (Summary)	Auditors finding	Auditors recommendation	Shoalhaven Starches Action Plan	Status
3(35)	The Proponent shall implement all reasonable and feasible recommendations in the rail level crossing safety assessment to the satisfaction of the Secretary.	Secretary approval has not been obtained (not followed up from last audit)	Ensure documentation required under this approval is submitted within the required timeframes	Send rail level crossing information to the Secretary for approval.	Complete. Condition requirement removed via MOD 9 approval dated 8-3-2017. Approval letter dated 16-3-17.
3(35A)	The Proponent shall ensure that the temporary car park and its access described in MOD 6: a) is designed and constructed to the satisfaction of Council and in accordance with AS2890:2009 Parking Facilities and AS1158:2010 Lighting for Roads and Public Spaces, or their latest versions; b) is used for light vehicles only, with the exception of heavy vehicles used to construct the temporary car park; c) is removed following the completion of construction of the No. 5 starch dryer at the Moorehouse site as described in MOD 6; d) is not used for the storage of plant, equipment or materials at any time.	Council approval has not been obtained	Ensure documentation required under this approval is submitted within the required timeframes	Send car park information to Council.	Complete. Information sent to Council on 19-7-2016. Council approval received 2-8-2016.
3(45)	The Proponent shall: a) commence landscaping as proposed in the Landscape Plans in Appendix 2C within 6 weeks of commencing construction of the car park described in MOD 3; b) update the Vegetation Management Plan for the project, in consultation with Council, to include the Landscape Plan in Appendix 2C, including details of the measures to be implemented to ensure that landscaping is maintained for the life of the project; and c) submit the updated Vegetation Management Plan to the Secretary for approval, by the end of April 2013.	c) Failure to submit Vegetation Management Plan by the end of April 2013.  b) the VMP has now been updated to the approval of Planning	Ensure documentation required under this approval is submitted within the required timeframes	Updated LVMP submitted to the Secretary for approval on 31-7-2015.	Complete. Plan submitted. No approval received.  LVMP update included in 2016 Annual Report 2016. Approval letter received 29-11-16.

### 3.5 Adequacy of Management Plans and Post-Approval Documents

Management Plans and other post-approval documents (e.g. Fire Safety Study, Construction Safety Study) were reviewed as part of assessing compliance with the requirements of the conditions in Schedule 3 of the approval.

For each plan or study, the auditor typically requested and was provided one or two examples of implementation of the plan, and / or viewed examples of implementation of the plans on site. Had the examples showed a pattern of non-implementation further examples would have been interrogated. In most cases, the examples were being implemented. One exception was the Flood Mitigation and Management Plan. That plan required a depth marker be installed as part of a flood warning system. The marker had not been installed and the condition was marked as non-compliant.

### 3.6 Environmental Management System Implementation

The most recent surveillance audit of the Environmental Management System (EMS) was reviewed (15 October 2018 to 17 October 2018). No major non-compliances were raised, and the audit found that the Proponent “continues to implement a quality and environmental management system in compliance with the requirements of the standard.”

### 3.7 Other Matters

The auditor noted there was no MSDS for sodium sulphite located near the storage for this chemical. It is recommended that a review of all required MSDS’s be conducted across the site.

No other matters outside the scope of the consolidated approval were raised by the Secretary for considered relevant for inclusion in the audit.

### 3.8 Stakeholder Consultation

#### 3.8.1 NSW Environment Protection Authority

Stefan Press, Senior Operations Officer at the NSW EPA advised that:

*Compliance with the EPL remains generally good – at this point in time there are no particular outstanding issues with respect to environmental issues or how the site operates. There was an incident going back 18 months where there was a process failure and starch was discharged to Abernathy’s Creek. At the time, an appropriate response was carried out.*

#### 3.8.2 NSW Department of Industry / Lands and Water

David Zerafa, Senior Water Regulation Officer at the Department of Industry / Lands and Water (DILW) advised that:

*The jurisdiction and priorities for Natural Resource Access Regulator (a division of Department of Industry) is waterfront land being land in and within 40m of watercourses. For this Shoalhaven Starches site, that is primarily the Shoalhaven River and Bomaderry Creek. However, Abernathy’s Creek (which despite being highly modified) also runs through the site and there are some components of the Plant expansion that have the potential to impact on that creek and adjoining waterfront land.*

The Regulator considered three items suitable for focus. Those items and the corresponding findings are shown in Table 7.

Table 7 Follow up on DILW Comments

Focus area	Audit Finding
Ongoing Implementation of the rehabilitation management plan for the Shoalhaven River & Bomaderry Creek Riparian Zones in accordance with the timeframes proposed.	The Landscape and Vegetation Management Plan was updated and issued to DILW in March 2019.  Evidence of implementation of the plan with respect to these specific areas was

Focus area	Audit Finding
	<p>confirmed on site and the following observations represented an improvement since the 2016 audit:</p> <ul style="list-style-type: none"> <li>- Viewed weeding undertaken in riparian zone, extra clearance on creek side of perimeter fencing</li> <li>- Observed native plantings in the riparian zone</li> </ul>
<p>Following instances of bank failure or increased risk of bank failure as a result of vibration from rail use, the site constructed a concrete retaining wall on the bank of the Shoalhaven River. This option was endorsed by DPI Water and DPI Fisheries at the time, but is to include additional works to place a rock revetment and planting of vegetation along the toe of the wall to provide screening and establish some riparian value along this part of the riverbank. I have attached the approved cross-section for your assistance. Aspects of this work involved some small encroachments onto Crown land which require consent from Crown Lands. At present, this aspect remains outstanding and so should be investigated for timeframes for Crown Lands approvals and implementation/completion.</p>	<p>Planting of vegetation along the toe of the wall to provide screening has not yet occurred. The Proponent expects the works to be completed within six months.</p> <p>Crown Lands approvals have been received for the works (executed 31 May 2019).</p>
<p>Ensure the integrity of Abernathy's Creek is being maintained as works adjacent are ongoing during implementation construction of Packaging Plant and new rail lines.</p>	<ul style="list-style-type: none"> <li>- Stormwater management continues to improve on site. Viewed new pump in place to reduce risk of flow to creek.</li> <li>- Installation of new stormwater HumeCeptor improves ability for site stormwater management systems to remove hydrocarbons and fine suspended solids from discharges.</li> <li>- John Studdert, Manildra advised "the area was sealed with concrete and kerb to help prevent stormwater erosion of the creek bank."</li> <li>- Visual inspection of the creek showed condition to be similar to 2016.</li> <li>- Auditor recommending site consider irregular grab samples in Abernathy's Ck to develop a baseline water quality picture</li> <li>- Auditor notes an incident during the audit period during which discharge to Abernathy's Creek resulted in a fine by the NSW EPA, however the fine was issued under Section 64 of the POEO act.</li> </ul>

### 3.8.3 NSW Department of Planning and Environment

The NSW Department of Planning and Environment (DPE) were contacted for comment and contributed to finalisation of the scope for the audit. The agreed scope is described in Section 2.3.

### 3.8.4 Shoalhaven City Council

Shoalhaven City Council were contacted and noted receipt, however, did not provide any specific feedback or comments.

## 3.9 Summary of Complaints and Responses

The number of complaints reported in the annual returns for the audit period are shown in Table 8 below. There was no indication that the response was inadequate or inappropriate for any complaint, or that the complainant was not satisfied with the outcome. The auditor does not consider the number or nature of complaints to represent an issue of concern for the Project.

Table 8 Complaints

Year	Number of complaints	Comment
2016	2	Minor complaints (one noise, one odour).
2017	5	Minor complaints (four odour, one noise)
2018	7	Minor complaints (three odour, one air, three noise)

## 3.10 Summary of Incidents and Response

The number of reportable incidents reported in the annual returns for the audit period are shown in Table 9 below. An incident that resulted in an EPA fine (May 2018) was the most significant and was a result of failure of control systems. The EPA was satisfied with the Proponents response to minimise the extent of discharge and prevent a recurrence.

Table 9 Incidents

Year	Number of incidents	Comment
2016	1	Minor incident, reported and appropriate corrective action taken.
2017	0	NA
2018	3	For each incident the summary reported appropriate corrective action was taken. One of the three incidents was not reported to DPE and a fine was subsequently issued (refer Section 3.3).

## 3.11 Actual versus Predicted Impacts

The auditor considered the comparison of the predicted impacts against the actual impacts of the development as part of reviewing compliance with Condition 3g (Schedule 4) which requires this comparison to be included in the Annual Environmental Management Reports submitted to Planning each year for approval.

### 3.11.1 Water Use

Water use continued to rise throughout the audit period. Predictions for water use were updated as part of the Flour Mill B EA and as at 2018 the actual use was below predicted use (actual use was marginally above predicted use in 2016 and 2017 before the approved increase).

Potable water use was below the predictions until 2018 when the prediction was downgraded as a result of beverage grade ethanol (MOD 12) project which includes a water recovery (evaporator) plant which is currently under construction. Raw water actual use remained below the prediction for the audit period. Recycled water actual use was above the prediction for the audit period.

### 3.11.2 Energy Use

Energy use increased slightly over the audit period.

### 3.11.3 Waste

The volumes of wastewater treated by the WWTP increased slightly over the audit period and was above the predicted volume.

The Proponent considered the WWTP to be performing well:

*The 2018 results show Biological Oxygen Demand (BOD) and total phosphorus (P) are below predicted levels in the EA. Conductivity is slightly above the EA prediction. Total nitrogen (N) levels are above the EA prediction, however the uptake of nitrogen for pasture growth outstrips supply from the waste water N (fertiliser is added to supplement nitrogen deficiency). The pH results remain relatively steady (no predictions in the EA).*

Solid waste increased slightly over the audit period, however, remains below the predictions.

Recycling volumes have increased.

### 3.11.4 Air Emissions

All pollutants tested were below the predicted levels and relatively steady.

### 3.11.5 Noise

In the 2016 reporting period there were two non-compliances with the sites noise limits. In the 2017 reporting period there was one non-compliance with the sites noise limits. In the 2018 reporting period there were no non-compliances.

The auditor notes that while the exceedances were minor, the exceedance Nobbler's Lane Terara in 2017 was due to the same cause as the 2016 exceedance. In both cases reference to the need for a new silencer on the Gluten Dryer No. 2 was identified. This was completed in February 2017.

## 3.12 Site Inspections and Interviews

A site inspection was undertaken on 9 May 2019. All evidence collected during that inspection is incorporated into the audit findings (Appendix A) in the "Interviews and Inspections" column. Documentation provided is included in the "Documentation viewed" column. Photos are included in Appendix E.

### 3.13 Actions Arising from Annual Review

There were no actions arising from the most recent annual review.

## 3.14 Continual Environmental Management Opportunities

Table 10 summarises the opportunities for improvement identified by the Auditor.

Table 10 Opportunities for Improvement

Reference		Opportunity for Improvement
Sched	Cond	
3	10	Ensure that consultation requirements for conditions are complied with and recorded in relevant plans and documents
3	13A	Consider a monthly review of subcontractor pre start / toolbox talks to check that noise issues (and any other high-risk impacts) are discussed either from time to time or to coincide with noisy works.
3	13A	Consider revision of CNMPs to ensure proposed mitigation measures are suitable for the nature of works being undertaken and their location.
3	14	Consider including the requirement to respond to "noise exceedances", from the original NMP rather than more generally "excessive noise" to ensure that specific remedial actions are linked to actual trigger levels.
3	18	Maintain a fill-import register for all material import activities.

Reference		Opportunity for Improvement
Sched	Cond	
3	20F	When the UFP is next updated, include a note that the procedure on p5 covers bonded asbestos.
3	22	Discuss the requirements for the approval of plan revisions with Planning and revise this approval to remove any doubt as to the requirement for Planning approval for Plan revisions.
3	22B	Update the Stormwater Management Plan to reflect the changes that have occurred on site and submit to Council for information.
3	24	Consider, in consultation with Planning, rewording the condition to ensure that the department objectives are met.
3	26C	Include scope for the consultant undertaking the hazardous materials storage assessment to confirm that all hazardous materials are stored above the 1% AEP flood level.
3	36a	In consultation with Planning, develop a new process for obtaining Fire and Rescue NSW approval for Fire Safety Studies that is timely and meets the Departmental objectives for the requirements of this condition.
4	5A	Ensure the review process following each of the triggers in this condition is documented.

### 3.15 Key Strengths

Shoalhaven Starches has, in the auditor's and agency stakeholders' opinions, improved its environmental management of the site and operations since the early stages of operations.

Some of the drivers for that improvement, which the auditor considers to be the Proponent's key strengths include:

- **Comprehensive approach to compliance tracking.** It is acknowledged that the audit identified a number of minor non-compliances related to approvals timing and document submission, however overall, the site is effectively managing a very complex approval (including 15 modifications) for a complex and continually expanding operation.
- **Consultation with stakeholders.** Effective and regular consultation with the key agencies (EPA and DPE) is evident. This has contributed to facilitating compliance with the approval and ensured that the response to any potential or actual environmental issues is managed transparently and with the approval of the agencies.

## 4 Conclusion

Of the 167 conditions in the approval, Shoalhaven Starches were found have complied with 116 conditions and not complied with 15 conditions. An additional 36 conditions were not triggered.

Three of the non-compliances related to actual impacts to the environment:

- A discharge of starch into the Abernathy's Creek;
- An exceedance of the opacity limits of the EPL; and
- An exceedance of the noise limits of the approval

One non-compliance related to the stockpiling of coal and woodchip without appropriate prior approval.

The remaining non-compliances were related to documentation submissions, notification requirements and approvals.

## APPENDIX A – AUDIT TABLES

Table 11 Schedule 2 – Administrative Conditions

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
1	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the demolition, construction, operation or decommissioning of the project.			C	No aspects of the operations reviewed during the course of the audit were considered to have the potential to cause harm to the environment.  Requests for improvements to a range of controls (noise, stormwater, landscaping) are generally being implemented to the satisfaction of the relevant authorities (refer to specific audit findings).
2	The Proponent shall carry out the project generally in accordance with the:  a) EA and associated site plans (see Appendix 2);  b) amended modification proposal MP 06_0228 MOD 1 prepared by ME Engineering Pty Ltd and dated 21 December 2010;  c) modification proposal MP 06_0228 MOD 2, accompanying Environmental Assessment dated January 2012 and response to submissions report dated 4 May 2012, prepared by Cowman Stoddart Pty Ltd, accompanying plans (see Appendices 2A	Viewed Penalty Infringement Notice for \$3,000 issued by Katrina O'Reilly, Planning to Ming Leung, Manildra re "Breach of EP&A Act" dated 19 May 2016 for stockpiling coal and wood chip without consent.		NC	The Proponent was issued a PIN for non-compliance with this condition.  Notwithstanding additional non-compliances found during the audit for other specific conditions, the auditor considers the Proponent to have carried out the project generally in

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>and 2B) and supplementary odour report dated 30 July 2012, prepared by PAE Holmes Pty Ltd;</p> <p>d) modification proposal MP 06_0228 MOD 3, accompanying Environmental Assessment dated May 2012, response to submissions report dated 20 July 2012 and further response to submissions report dated 24 August 2012, prepared by Cowman Stoddart Pty Ltd and accompanying plans (see Appendix 2C);</p> <p>e) modification proposal MP 06_0228 MOD 4, accompanying Environmental Assessment and accompanying plans (see Appendix 2D) dated February 2014, prepared by Cowman Stoddart Pty Ltd;</p> <p>f) modification proposal MP 06_0228 MOD 5, accompanying Environmental Assessment and accompanying plans dated June 2015, prepared by Cowman Stoddart Pty Ltd (see Appendix 2E);</p> <p>g) modification proposal MP 06_0228 MOD 6, accompanying Environmental Assessment and accompanying plans dated October 2015, prepared by Cowman Stoddart Pty Ltd (see Appendix 2F);</p> <p>h) modification proposal MP 06_0228 MOD 7, accompanying Environmental Assessment and accompanying plans dated November 2015, prepared by Cowman Stoddart Pty Ltd (see Appendix 2G);</p> <p>i) modification proposal MP 06_0228 MOD 8, accompanying Environmental Assessment and accompanying plans dated November 2015, prepared by Cowman Stoddart Pty Ltd (see Appendix 2H); and</p> <p>j) modification proposal MP 06_0228 MOD 9, accompanying Environmental Assessment and plans dated March 2016, prepared by Cowman Stoddart</p>				<p>accordance with the requirements listed.</p> <p><b>Recommendation:</b></p> <p>Consider developing a document that briefly describes each MOD and a summary of the approved works for distribution to key / relevant staff to minimise the risk of unapproved works being carried out on site.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>Pty Ltd and Noise Assessment for Night Time Operations dated November 2016, prepared by Harwood Acoustics (see Appendix 2I);</p> <p>k) modification proposal MP 06_0228 MOD 10, accompanying Environmental Assessment Plans dated October 2016, prepared by Cowman Stoddart Ltd (see Appendix 2J);</p> <p>l) modification proposal MP 06_0228 MOD 11, accompanying Environmental Assessment and plans dated November 2016, prepared by Cowman Stoddart Pty Ltd (see Appendix 2K);</p> <p>m) modification proposal MP 06_0228 MOD 12, accompanying Environmental Assessment and plans dated November 2016, prepared by Cowman Stoddart Pty Ltd (see Appendix 2L);</p> <p>n) modification request MP 06_0228 (MOD 13), accompanying Environmental Assessment and plans dated June 2017, prepared by Cowman Stoddart Pty Ltd (see Appendix 2M);</p> <p>o) modification request MP 06_0228 (MOD 14), accompanying Environmental Assessment and plans dated December 2017, prepared by Cowman Stoddart Pty Ltd (see Appendix 2N); and</p> <p>p) modification request MP 06_0228 (MOD 15), accompanying Environmental Assessment and plans dated February 2018 and updated plans dated 9 May 2018, prepared by Cowman Stoddart Pty Ltd (see Appendix 2O).</p>				
2A	<p>The Proponent shall carry out the project in accordance with the:</p> <ul style="list-style-type: none"> <li>- statement of commitments; and</li> <li>- conditions of this approval.</li> </ul>			C	Compliance with the conditions of this approval is evidenced throughout these audit findings (Appendix A).

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
3	If there is any inconsistency between the above, the conditions of this approval shall prevail to the extent of any inconsistency.			C	Compliance with the conditions of this approval is evidenced throughout these audit findings (Appendix A).
4	The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: a) any reports, plans, strategies, programs or correspondence that are submitted in accordance with this approval; and b) the implementation of any actions or measures contained in these reports, plans, strategies, programs or correspondence.			C	In some cases, the Secretary provided provisional approval for plans, programs or studies. The auditor interrogated the extent to which these requirements were being implemented and found the Proponent to be generally complying with these requirements.
5	Within 12 months of this approval, the Proponent shall surrender all existing development consents and project approvals for the site, apart from this project approval, in accordance with Clause 97 of the EP&A Regulation.  Note: This does not include DA 14/1327 and DA 11/1936 issued by Council for other facilities not related to this approval located on Lot 143 on DP 1069758.	This condition was complied with in the 2013 and 2016 audits. Condition 5A provides evidence of surrender of additional consents		C	The requirements of the condition have been met.
5A	Within 6 months of the date of approval of MOD 14, or as otherwise agreed by the Secretary, the Proponent shall surrender all existing development consents and project approvals for the former Paper Mill site in accordance with the EP&A Regulation.	Viewed email from John Studdert, Manildra to Deana Burns, DPE "Shoalhaven Starches Project Approval 06_0228, Sch.2, Cond. 5A - Surrender of Development Consents for the Former Paper Mill Site" dated 12 July 2018. The email included a number of attachments:		C	The requirements of the condition have been met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<ul style="list-style-type: none"> <li>- Notice of surrender of consents</li> <li>- Owners consent letter (authorising Manildra office to surrender on behalf of group)</li> <li>- copies of the Development Consents.</li> </ul> <p>Viewed letter from Chris Ritchie, DPE to John Studdert dated 30 August 2018 approving surrender of consents.</p>			
6	<p>(1) The Proponent must not produce on site:</p> <p>a) more than 842,000 tonnes of industrial grade flour per year; and</p> <p>b) more than 300 million litres of ethanol per year, subject to (2) below.</p> <p>(2) The Proponent must not produce on site more than 126 million litres of ethanol per year except in accordance with a staged approval granted by the Secretary in accordance with condition 7.</p> <p>Note: Prior to this approval, the Proponent was allowed to produce up to 126 million litres of ethanol per year. Condition 7 below provides for the Secretary to approve increased production of ethanol in stages, firstly up to 200 million litres and then up to 300 million litres. Increased production will only be approved after an independent audit of the performance of the odour controls required by this approval and only if the Secretary is satisfied that odour controls will be adequate for such an increase.</p>	<p>Viewed AEMR for 2016 which stated:</p> <ul style="list-style-type: none"> <li>- Annual flour production was █████ tonnes</li> <li>- Annual ethanol production was █████ ML</li> </ul> <p>Viewed AEMR for 2017 which stated:</p> <ul style="list-style-type: none"> <li>- Annual flour production was █████ tonnes</li> <li>- Annual ethanol production was █████ ML</li> </ul> <p>Viewed AEMR for 2018 which stated:</p> <ul style="list-style-type: none"> <li>- Annual flour production was █████ tonnes</li> <li>- Annual ethanol production was █████ ML</li> </ul>		C	The requirements of the condition have been met.
7	(1) The Proponent may apply to the Secretary for approval to increase ethanol production up to the rate of 200 million litres of ethanol a year on site if –	<p>Complied with for 2013 audit. No additional requirements triggered this audit; however, the Proponent continues to implement the controls.</p> <p>Letter from Department of Planning and Infrastructure dated 4th June 2012 granting approval</p>		C	Complied with for 2013 audit. No additional requirements triggered this audit;

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>a) the mandatory odour controls listed in Appendix 3 to this Approval have been implemented; and</p> <p>b) the Odour Management Plan required under condition 4 of Schedule 3 has been prepared to the satisfaction of the Secretary and is being implemented; and</p> <p>c) an independent odour audit has been prepared and submitted in accordance with conditions 5 and 6 of Schedule 3; and</p> <p>d) the proponent provides the Secretary with an assessment of the likely odour impacts of the proposed increase in ethanol production, using odour monitoring and predictive modelling.</p> <p>(2) The proponent may apply to the Secretary for approval to increase ethanol production from 200 million litres of ethanol a year on site up to 300 million litres of ethanol a year on site if –</p> <p>a) the site has been producing 200 million litres per year in accordance with an approval granted by the Secretary under this condition; and</p> <p>b) an independent odour audit of the site operating at this rate has been prepared and submitted in accordance with conditions 5 and 6 of Schedule 3; and</p> <p>c) the proponent has provided the Secretary with an assessment of the likely odour impacts of the proposed increase in ethanol production, using odour monitoring and predictive modelling.</p> <p>(3) An assessment provided to the Secretary in accordance with this condition –</p> <p>a) must assess the effectiveness of the mandatory odour controls required under this approval; and</p>	<p>to increase production to 300 million viewed in 2013 audit.</p>			<p>however, the Proponent continues to implement the controls.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>b) may assess the effectiveness of implementing additional odour controls (such as those listed in Appendix 3).</p> <p>(4) In deciding whether to approve an increase in ethanol production under this condition, the Secretary must –</p> <p>a) assess the odour performance of the premises at its current rate of production; and</p> <p>b) assess the likely odour impacts from the proposed increase; and</p> <p>c) consider the requirement not to cause or permit the emission of offensive odours from the site as defined in section 129 of the POEO Act.</p>				
8	<p>The Proponent must ensure all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p>Note: Under Part 4A of the EP&amp;A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the Development.</p>	<p>Viewed construction certificate for the CO2 Plant (MOD 15) (which is still under construction)</p> <p>Viewed construction certificate for Boiler Conversion MOD 13 (Boilers No.2, No.4 &amp; No.6) (Boiler No.2 still under construction)</p> <p>Viewed construction certificate for the MVR Evaporators (MOD 12) (still under construction – project is currently on hold)</p> <p>Viewed construction certificates and occupation letter for Beverage Grade Ethanol Plant MOD 12</p> <p>Viewed construction certificates for DDG Dryer #4 (MOD 11) (still under construction)</p> <p>Viewed construction certificates and occupation letter for Flour Mill B (MOD 10)</p> <p>Viewed construction &amp; occupation certificates for Flour Mill (A) Alterations (MOD 8)</p> <p>Viewed construction certificates and occupation certificate letters for Starch Dryer No.5.</p>		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
8A	<p>Within 2 months of the date of the approval of MP 06_0228 MOD 2, the Proponent shall:</p> <p>a) obtain and provide copies to the Secretary all necessary building certificate(s) from Shoalhaven City Council for any structures proposed as part of MP 06_0228 MOD 2 that have been constructed or partially constructed prior to the approval of MP 06_0228 MOD 2; and</p> <p>b) ensure that all new structures, and any alterations or additions to existing structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.</p>	<p>Viewed email from John Studdert, Manildra to Azmeena Kelly, DPE "Shoalhaven Starches Independent Environmental Audit PA 06_0228, Sch.2, cond.8A" dated 21 February 2014.</p> <p>The email included a number of attachments:</p> <ul style="list-style-type: none"> <li>- building certificate BC12/1052</li> <li>- correspondence as required under Shoalhaven Starches Project Approval 06_0228, schedule 2, condition 8A, Structural Adequacy of Early Works (MOD 2)</li> </ul>		C	The requirements of the condition are being met.
8B	<p>Within three (3) months of the date of approval of MP 06_0228 MOD 5, the Proponent shall:</p> <p>a) obtain and provide copies to the Secretary of all necessary building certificate(s) from Council for any structures proposed as part of MP 06_0228 MOD 5 that have been constructed or partially constructed prior to the approval of MP 06_0228 MOD 5; and</p> <p>b) ensure that all new structures, and any alterations or additions to existing structures, are constructed in accordance with the relevant requirements of the Building Code of Australia.</p>	<p>Viewed emails from Mark Manlon, M.E. Engineering to Kristie Lissenden, Shoalhaven City Council from November 2016 through to February 2018 attempting to obtain issue of Building Certificate.</p> <p>Viewed emails from John Studdert, Manildra and Mark Manlon, M. E. Engineering to Jason Kneipp, Shoalhaven City Council from February 2018 through to July 2018 attempting to obtain issue of Building Certificate.</p> <p>Viewed email from Garon Irwin, SCC, to John Studdert, Manildra outlining remaining items that require attention prior to issue of BC.</p> <p>Viewed email from Peter O'Neill, Manildra Contractor to John Studdert, Manildra advising requirement for Fire Engineer inspection.</p>		NC	<p>Building certificate not yet obtained.</p> <p><b>Recommendation:</b></p> <p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system.</p>
8C	<p>By the end of July 2018, the Proponent shall provide copies of building certificates, where required, to demonstrate compliance with the BCA for the alterations to structures and additional structures listed in Table A. If an item in Table A does not require a building certificate in accordance with the BCA, the Proponent shall provide written evidence, to the satisfaction of the Secretary.</p>	<p>Viewed letter from Kirsty Ruddock, DPE to Brian Hanley, Manildra dated 21 July 2016 and confirming the Terms of Audit for a proposed Independent Compliance Audit.</p> <p>Viewed letter from Karina O'Reilly, DPE to Brian Hanley, Manildra dated 8 February 2018 stating the audit had generally satisfied the terms of the audit</p>		NC	<p>Building certificate applications were submitted in June 2018, however inspections and certificates have not been issued.</p> <p><b>Recommendation:</b></p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	Table A: Alterations and Additions to Structures (see notes adjacent)  1 Reference numbers as stated in the Independent Compliance Audit, April 2017, prepared by GHD.	and lists a number of structures that must be shown to have been constructed in accordance with the BCA.  Viewed email from John Studdert, Manildra to Georgina Dragicevic, DPE "RE: HPE CM: RE: Shoalhaven Starches Plant (MP 06_0228) Independent Compliance Audit 28 January 2009-2018 April 2017" dated 13 November 2018. Attached was the BC for the Starch Dryer No5.			Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system
9	The Proponent shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601:2001: The Demolition of Structures, or its latest version and the requirements of the Work Health and Safety Regulation, 2011.		John Studdert, Manildra:  "There has been no demolition work, since the last audit, as per conditions 9, 9A."	NT	There has been no demolition work.
9A	The Proponent shall ensure that all demolition is undertaken by licensed demolition experts in accordance with the requirements of SafeWork and the Work Health and Safety Regulation, 2011.		John Studdert, Manildra:  ""There has been no demolition work, since the last audit, as per conditions 9, 9A."	NT	There has been no demolition work.
9B	The Proponent shall ensure that any asbestos encountered during construction and demolition is monitored, removed, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork and relevant guidelines, including: (a) Work Health and Safety Regulation 2011; (b) Model Code of Practice – How to Manage and Control Asbestos in the Workplace, 2011 Safe Work Australia; (c) Model Code of Practice – How to Safely Remove Asbestos, 2011 Safe Work Australia; and (d) Protection of the Environment Operations (Waste) Regulation 2005.	Friable asbestos was found when refurbishing Boiler No.2. Works to monitor and remove the asbestos were undertaken in accordance with SafeWork requirements.  Viewed report "INVESTIGATION FOR POTENTIAL ASBESTOS. NO.2 BOILER – LOWER SOUTH WALL INSULATION & SEALS" prepared by ENRS dated 16 August 2018. The report found:  <i>"insulation and seals from the lower portion of the southern wall documents positive detections for Friable Asbestos".</i>  Viewed report "CONTROL AIR MONITORING FOR FRIABLE ASBESTOS REMOVAL. MANILDRA BOILER #2 (SOUTH WALL)." prepared by ENRS dated 23 August 2018. The report stated that monitoring was:		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p><i>"accordance with the National Occupational Health and Safety Commission Code of Practice for the Safe Removal of Asbestos 2nd Edition".</i></p> <p>Viewed report "CONTROL AIR MONITORING FOR FRIABLE ASBESTOS REMOVAL. MANILDRA BOILER #2 (SOUTH WALL)." prepared by ENRS dated 24 August 2018. The report found:</p> <p><i>"the area has successfully been remediated and is clear for asbestos, so that the enclosure may be deconstructed".</i></p> <p>Viewed report "Friable Asbestos Clearance Certificate" prepared by ENRS dated 24 August 2018.</p>			
10	<p>The Proponent shall:</p> <p>a) prepare a dilapidation report of the public infrastructure in the vicinity of the site (including roads, gutters, footpaths), in consultation with Council, and submit a copy of this report to the Department prior to the commencement of construction;</p> <p>b) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and</p> <p>c) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.</p>	<p>Complied with for 2013 audit. No additional requirements triggered this audit.</p> <p>Letter from NSW Department of Planning dated 17th April 2009 approving the report viewed in 2013 audit.</p>		NT	There were no requirements for this condition triggered in the audit period.
10A	<p>The Proponent shall:</p> <p>a) consult Telstra and Jemena during preparation of detailed design for the under-boring of pipework under Bolong Road as described in MOD 9;</p> <p>b) contact Telstra and Jemena at least two weeks prior to the commencement of the under-boring works;</p>		<p>John Studdert, Manildra:</p> <p>"MOD 9 is on hold".</p>	NT	Works associated with this modification are on hold.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>c) ensure that mechanical excavation or boring works are undertaken in accordance with the requirements of Telstra and Jemena in order to protect the private infrastructure assets; and</p> <p>d) complete restoration works to the ground surface and footpath.</p>				
11	<p>11. The Proponent shall ensure that all plant and equipment used on the site is:</p> <p>a) maintained in a proper and efficient condition; and</p> <p>b) operated in a proper and efficient manner.</p>	<p>Viewed three most recent "Mainpac Work Requests":</p> <ul style="list-style-type: none"> <li>- Leaking pump on gluten dryer No7 dated 3 June 2019</li> <li>- Screw running too fast on Flour unloader dated 3 June 2019</li> <li>- Tripped out pump dated 3 June 2019</li> </ul> <p>Viewed "Mainpac Work Requests" for:</p> <ul style="list-style-type: none"> <li>- Inspect bio-gas flare filter &amp; arrestor. Check for build-up dated 1 August 2018</li> </ul> <p>Viewed Penalty Notice issued by the EPA on 18 May 2018 for \$15,000 for pollution incident on 4 August 2017. EPA advised the notice was issued due to the Proponent not undertaking its activities in a competent manner.</p>	<p>All plant viewed on site was operating properly and efficiently.</p>	NC	<p>The requirements of the condition are generally being met; however, the Proponent was issued a fine by the NSW EPA during the audit period that resulted from activities not being carried out in a competent manner.</p> <p><b>Recommendation:</b></p> <p>Appropriate corrective actions (including responses to the incident accepted by the EPA) have already been put in place. No further recommendation is considered necessary.</p>
12A	<p>With the approval of the Secretary, the Proponent may:</p> <p>a) submit any strategy, plan or program required by this approval on a progressive basis; and/or</p> <p>b) combine any strategy, plan or program required by this approval.</p>		<p>John Studdert:</p> <p>"No approval for staged submission of any plans or programs was sought during the audit period"</p>	NT	<p>There were no requirements for this condition triggered in the audit period.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
12B	<p>Until they are replaced by an equivalent strategy, plan or program approved under this approval, the Proponent shall continue to implement existing strategies, plans or programs for operations on site that have been approved by previous consents or approvals.</p> <p>Note:</p> <ul style="list-style-type: none"> <li>• If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages and the trigger for updating the strategy, plan or program.</li> <li>• There must be a clear relationship between the strategy, plan or program that is to be combined.</li> </ul>			C	The plans were generally being implemented.
13	Within 12 months of this approval, the Proponent shall pay Council a suitable contribution for the project that has been determined generally in accordance with any applicable Section 94 Contribution Plan. If there is a dispute about the amount of the contribution, then either party may refer the matter to the Secretary for resolution.	Complied with for 2013 audit. No additional requirements triggered this audit.		NT	There were no requirements for this condition triggered in the audit period.
14	In the event of a dispute between the Proponent and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Project, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute shall be final and binding on the parties.		John Studdert: "There were no disputes in the audit period"	NT	There were no requirements for this condition triggered in the audit period.
15	Prior to the commencement of construction of the gas-fired cogeneration plant described in the EA, the Proponent shall apply to the Secretary to modify the location of the plant. The plant shall not		John Studdert: "The plant has not been constructed"	NT	The plant has not been constructed.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	be constructed until an application to modify the location has been approved by the Secretary.				

**Table 12 Schedule 3 – Specific Environmental Conditions**

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
1	The Proponent shall not cause or permit the emission of offensive odours from the site, as defined under Section 129 of the POEO Act.	Viewed record of community complaints regarding odour in the annual environmental reports.	John Studdert:  "There have been no warning letters, penalty notices, etc., for offensive odours from the site during the audit period"  No offensive odours were identified by the auditor at the site boundaries.	C	Whilst odour complaints were reported in each annual environmental report (2017, 2017 and 2018) no complaint resulted in further action (e.g. a penalty notice or EPA warning).
2	Prior to increasing ethanol production rates on site above 126 million litres a year or within 12 months of this approval, whichever is sooner, the Proponent shall implement all the mandatory odour controls listed in Appendix 3 and described in detail in the Odour Management Plan (see condition 4 below), to the satisfaction of the Secretary.	Complied with for 2013 audit. No additional requirements triggered this audit, however mandatory odour controls are being implemented.  Viewed email from John Studdert, Manildra to Deana Burns, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12, Condition 3D - Implementation of Mandatory Odour Controls" dated 18 October 2017. The email included evidence of implementation of mandatory odour controls as required by condition 3D.  Viewed letter from Chris Ritchie, DPE to Brian Hanley, Manildra dated 24 October 2017 confirming the Department is satisfied the odour controls are acceptable, however requests their efficiency be verified in the next odour audit.		C	There were no requirements for this condition triggered in the audit period, however mandatory odour controls are being implemented.
3	The Proponent shall implement additional mandatory odour controls as may be directed by the Secretary, arising from the Department's	Viewed email from John Studdert, Manildra to Deana Burns, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12, Condition 3D - Implementation of		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	assessment of any: a) Independent Odour Audit (see condition 5 below); b) Independent Environmental Audit (see condition 4 of schedule 4); or c) any monitoring results, incidents or complaints related to the project.	Mandatory Odour Controls" dated 18 October 2017. The email included evidence of implementation of mandatory odour controls as required by condition 3D.  Viewed letter from Chris Ritchie, DPE to Brian Hanley, Manildra dated 24 October 2017 confirming the Department is satisfied the odour controls are acceptable, however requests their efficiency be verified in the next odour audit.			
3A	Prior to commissioning the duct work that directs additional emissions from the evaporator plant area and load-out chute to the bio-filter (as identified in the amended modification proposal) the Proponent must demonstrate to the satisfaction of the Secretary and the EPA that the bio-filter can accommodate the additional load while maintaining acceptable treatment performance.	Complied with for 2013 audit. No additional requirements triggered this audit, however the biofilter continues to maintain acceptable performance.		C	There were no requirements for this condition triggered in the audit period, however the biofilter continues to maintain acceptable performance.
3B	Should the Proponent opt to install a DDG pelletising plant as identified in the additional odour controls in Appendix 3 the plant must comply with all regulatory requirements including air and odour emissions standards that are in force at the time of installation. Compliance must be demonstrated to the satisfaction of the Secretary and EPA before installation work begins.	In 2016, viewed letter dated 29 August 2014 from Julian Thompson (EPA) to Chris Ritchie (DPE) confirming the agency's approval of the use of the stack to disperse odorous airstreams from the approved DDG pelletising plant pending compliance with stack design requirements and discharge parameters.  In 2016, viewed MOD 4 and MOD 5 project approvals issued by the Department of Planning and Environment which demonstrate satisfaction of the Secretary (pending compliance with the approval modifications).  Viewed DDG Pellet Stack Plan (design drawings) showing design complied with Condition 6B.	John Studdert, Manildra:  "Condition 3B was deemed compliant in the 2018 Odour Audit (p.14).  For Condition 6B, the stack was built in accordance with the a) & b), however the discharge parameters will vary. The measured discharge parameters are used in the annual odour audit modelling which is submitted to the EPA each year."	C	The requirements of the condition are being met.
3C	Deleted				

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
3D	Prior to construction of any part of MOD 11 and MOD 12 as described in Schedule 2, Condition 2, the Proponent shall implement odour mitigation controls on the gluten dryers 3 and 4. The controls shall include re-orienting the discharge vents and increasing the velocity of discharges to improve odour dispersion, as described in MOD 11 and MOD 12. The Proponent shall provide evidence to the satisfaction of the Secretary to demonstrate that the odour mitigation controls have been successfully implemented.	<p>Viewed email from John Studdert, Manildra to Deana Burns, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12, Condition 3D - Implementation of Mandatory Odour Controls" dated 18 October 2017. The email included evidence of implementation of mandatory odour controls as required by condition 3D.</p> <p>Viewed letter from Chris Ritchie, DPE to Brian Hanley, Manildra dated 24 October 2017 confirming the Department is satisfied the odour controls are acceptable, however requests their efficiency be verified in the next odour audit.</p> <p>Viewed "Shoalhaven Starches, Independent Odour Audit (2017-2018)" prepared by NorthStar Air Quality dated 18 September 2018 confirming that "for both Mod12 and Mod13 the modelling predicts compliance with stated NSW EPA criteria."</p>	<p>John Studdert, Manildra:</p> <p>"monitoring results are included in the 2018 Odour Audit"</p>	C	The requirements of the condition are being met.
4	The Proponent shall prepare and implement an Odour Management Plan for the project to the satisfaction of the Secretary. This plan must: a) be prepared in consultation with EPA by a suitably independent, qualified and experienced expert whose appointment has been endorsed by the Secretary, and submitted to the Secretary for approval within 3 months of the date of this approval; b) describe in detail the measures that would be implemented on site to control the odour impacts of the project, and to ensure that these controls remain effective over time; c) identify triggers for remedial action; and d) include a program for monitoring the odour impacts of the project.	<p>Letter from Department of Planning dated 19th May 2011, granting approval of the original plan viewed in 2013 audit.</p> <p>Letter from Department of Planning dated 12th October 2015 stating the Department approving the OMP 2014 satisfies Condition 4, 5 and 6A of Schedule 3 viewed in 2016 audit.</p> <p>Viewed amended 'Odour Management Plan' dated June 2018 (additional revision in April 2016).</p> <p>Requested and was provided the following evidence of implementation of the plan:</p> <ul style="list-style-type: none"> <li>- Mainpac Work Requests for "Inspect bio-gas flare filter &amp; arrestor. Check for build-up" dated 1 August 2018. Reported that filter cleaned as required.</li> <li>- Invoice for repair and maintenance work on BVF Cover by Geomembrane Technologies Inc dated 26 June 2017.</li> </ul>	<p>John Studdert, Manildra:</p> <p>"The requirement for Secretary approval for revisions of management plans was removed from sch.4, cond.5A via the MOD 5 approval. Condition 4 is an original approval condition."</p> <p>"The last external inspection / repairs of the BVF Cover by Geomembrane Technologies Inc</p>	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
			(GTI) was June 2017. From 2020, the cover will undergo annual GTI inspection		
4A	Prior to increasing ethanol production, the Odour Management Plan for the project must be updated to the satisfaction of the Secretary to include the additional Appendix 3 mandatory odour controls specified in the modification approval MOD 1 – Deletion of DDG Pelletiser.	Viewed letter from Department of Planning dated 12th October 2015 stating the Department approving the OMP 2014 satisfies Condition 4, 5 and 6A of Schedule 3 during 2016 audit.	John Studdert, Manildra: "Condition 4A has already been complied with. The OMP was updated to include the additional Appendix 3 mandatory odour controls.  The ethanol production volumes are shown in the Annual Reports (refer to sch.4, cond.3)"	C	The requirements of the condition are being met.
5	Within 3 months of the implementation of the mandatory odour controls (see Appendix 3), and annually thereafter unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Odour Audit of the project. This audit must be conducted by a suitably qualified, experienced and independent expert whose appointment has been endorsed by the Secretary. During the audit, this expert must: a) consult with EPA and the Department; b) audit the effectiveness of the odour controls on site in regard to protecting receivers against offensive odour; c) review the Proponent's production data (that are relevant to the odour audit) and complaint records; d) review the Odour Management Plan for the project; e) measure all key odour sources on site, and compare the results of these measurements against the predictions in the EA; f) determine whether the project is complying with the requirements in this approval; and, if necessary, g) recommend and prioritise measures to either	2016:  Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 8th March 2016 stating the Department approves the proposed Odour Auditors for the Independent Odour Audit  Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228, Schedule 3, Condition 5 - Independent Odour Audit 2016" dated 5th October 2016 providing the completed odour audit and their response to the audit recommendations. The report included a summary of the consultation with EPA that had taken place.  2017:  Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 8th March 2016 stating the Department approves the proposed Odour Auditors for the Independent Odour Audit  Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228, condition 5 - Independent Odour Audit" dated 30th October 2017 providing the completed		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>improve the odour controls on site and/or the Odour Management Plan, such that receivers would be protected against offensive odour from the site.</p> <p>Note: The Secretary may vary the frequency of the audit depending on the performance of the project.</p>	<p>odour audit and their response to the audit recommendations. The report included a summary of the consultation with EPA that had taken place.</p> <p>2018:</p> <p>Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 8th March 2016 stating the Department approves the proposed Odour Auditors for the Independent Odour Audit</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228, Condition 5 - Independent Odour Audit 2018" dated 19th October 2018 providing the completed odour audit and their response to the audit recommendations. The report included a summary of the consultation with EPA that had taken place.</p> <p>General:</p> <p>In addition, the auditor viewed a sample of the reports to validate that the requirements of conditions (a) to (g) were being met.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval 06_0228, Condition 5 - Independent Odour Audit 2018", dated 28 May 2019 noting receipt of the Independent Audit Report and recommending:</p> <p><i>"ensure references to the biofilters across the different consultants (Stephenson, NorthStar and the Odour Unit) are consistent, they are currently referenced differently. Also, there were some substantial differences in measurements across the different consultants, which will be something to pick up and comment on next time"</i></p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
6	Within 6 weeks of the completion of this audit, the Proponent shall submit a copy of the audit report to both EPA and the Department with a response to any recommendations contained in the audit report.	<p>2016:</p> <p>Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 25th October 2016 stating the Department has reviewed the Independent Odour Audit in consultation with the EPA and is satisfied the audit plan and Action Plan satisfies Condition 5, 6 and 6A of Schedule 3.</p> <p>2017:</p> <p>Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 15th December 2017 stating the Department has reviewed the Independent Odour Audit in consultation with the EPA and is satisfied the audit plan and Action Plan satisfies Condition 5 to 6f of Schedule 3.</p> <p>2018:</p> <p>Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra dated 25th October 2018 stating the Department has reviewed the Independent Odour Audit in consultation with the EPA and is satisfied the audit plan and Action Plan satisfies Condition 5, 6 and 6A of Schedule 3.</p>		C	The requirements of the condition are being met.
6A	The Proponent shall ensure that any Independent Odour Audit submitted to the Secretary in accordance with Condition 5 of this Schedule includes: a) 3 monthly (quarterly) odour monitoring with samples taken from the carbon dioxide/ethanol recovery scrubber inlet/s and outlet/s; and b) quarterly odour monitoring with samples taken of single vent stack (direct to atmosphere) emissions from a filling fermenter tank.	<p>Viewed "Shoalhaven Starches, Independent Odour Audit" prepared by Northstar Air Quality on 28 September 2016 which included:</p> <ul style="list-style-type: none"> <li>- quarterly monitoring from CO2 inlet/outlet and</li> <li>- quarterly monitoring from fermenter</li> </ul> <p>Viewed "Shoalhaven Starches, Independent Odour Audit (2017)" prepared by Northstar Air Quality on 25 October 2017 which included:</p> <ul style="list-style-type: none"> <li>- quarterly monitoring from CO2 inlet/outlet and</li> <li>- quarterly monitoring from fermenter</li> </ul>	<p>John Studdert:</p> <p>"Odour sampling is taken from a Fermenter Vent (Point 44) direct to atmosphere whilst filling.</p> <p>When the fermenter is full, the emissions are directed to the CO2 scrubber outlet (Point 16) which is also sampled."</p>	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Viewed "Shoalhaven Starches, Independent Odour Audit (2017-2018)" prepared by Northstar Air Quality on 18 September 2018 which included:</p> <ul style="list-style-type: none"> <li>- quarterly monitoring from CO2 inlet/outlet and</li> <li>- quarterly monitoring from fermenter</li> </ul> <p>Viewed "EPL ODOUR EMISSION SURVEY ANNUAL &amp; QUARTER 4, 2018-2019" prepared by Stephenson EMA dated 30 April 2019, which included:</p> <ul style="list-style-type: none"> <li>- quarterly monitoring from CO2 inlet/outlet and</li> <li>- quarterly monitoring from fermenter</li> </ul>			
6B	<p>The Proponent shall construct, commission and operate the DDG exhaust stack in accordance with the following specifications:</p> <ul style="list-style-type: none"> <li>a) 49.2 metres in height;</li> <li>b) 1.5 metres in diameter;</li> <li>c) discharge air temperature of 60 degrees Celsius; and</li> <li>d) exit velocity of 12 metres per second.</li> </ul> <p>Note: Conditions c) and d) apply unless otherwise prescribed in an EPL for the project.</p>	<p>Viewed DDG Pellet Stack Plan (design drawings) showing design complied with Condition 6B (a and b).</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval 06_0228 - Condition 6B" dated 10 December 2018 requesting removal of this condition from the approval following recommendation from the independent odour auditor (per Shoalhaven Starches, Independent Odour Audit (2017-2018) prepared by Northstar Air Quality on 18 September 2018):</p> <p>'It is recommended that Condition 6B is considered for removal from the conditions. Compliance with specific conditions of emission diameter, temperature and velocity are secondary to the objective of effective odour emission control. Conditions relating to emission conditions (such as currently presented in 6B(b)-(d)) will inevitably result in non-compliances even though effective odour control is achieved.'</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval 06_0228 - Condition 6B" dated 27 March 2019 in which it is stated that:</p>	<p>John Studdert: "those numbers (c) and (d) were the design goals for the stack and were copied into the approval. "</p>	C	<p>The auditor notes that whilst the requirements for (c) and (d) are not being met, the Secretary has acknowledged they are not practical requirements and are planned to be deleted. Accordingly, the Proponent has not been assessed against these requirements in this audit.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		"We propose deleting condition 6B, I discussed with the EPA and they were ok with that."			
6C	The Proponent shall conduct quarterly odour monitoring from the DDG exhaust stack and report the results in the independent odour audit required under Condition 5 of Schedule 3.	<p>Viewed "Shoalhaven Starches, Independent Odour Audit" prepared by Northstar Air Quality on 28 September 2016 which did not include DDG Exhaust Stack testing.</p> <p>Viewed "Shoalhaven Starches, Independent Odour Audit (2017)" prepared by Northstar Air Quality on 25 October 2017 which included DDG Exhaust Stack testing</p> <p>Viewed "Shoalhaven Starches, Independent Odour Audit (2017-2018)" prepared by Northstar Air Quality on 18 September 2018 which included DDG Exhaust Stack testing. The report noted that "the Quarter 1 monitoring was not performed on the DDG exhaust stack."</p> <p>Viewed "EPL Odour Emission Survey Annual and Q4 2018-2019" Prepared by Stephenson Environmental Management Australia, dated 30 April 2019. Included results for DDG Stack.</p> <p>Viewed "EPL Odour Emission Survey Q3 2018-2019" Prepared by Stephenson Environmental Management Australia, dated 28 March 2019. Included results for DDG Stack.</p> <p>Viewed "EPL Odour Emission Survey Q2 2018-2019" Prepared by Stephenson Environmental Management Australia, dated 14 November 2018. Included results for DDG Stack.</p> <p>Viewed "EPL Odour Emission Survey Q1 2018-2019" Prepared by Stephenson Environmental Management Australia, dated 23 August 2018. Included results for DDG Stack.</p>	<p>John Studdert, Manildra: "Monitoring was not required in 2016 IOA</p> <p>There is generally at least one sampling point (~ 25 points in total) that is not available on the days of testing (due to equipment not operating, maintenance, access issues, etc.) which is noted in the report.</p> <p>The failure to test a point during the quarter is not reported as non-compliance in the EPA Annual Return (verbally agreed with EPA).</p> <p>The rationale is if the equipment is not operating then it can't be the tested; the consultants and odour panel are based in Sydney, and is not feasible to return to site to complete one odour sample."</p>	C	The requirements of the condition are generally being met. Whilst monitoring was missed for one quarter due to non-operational equipment, a pattern of compliance had already been established over a period of time.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
6D	The Proponent shall conduct odour monitoring on the relocated starch dryer described in MOD 7 in accordance with the requirements of the EPL and report the results in the independent odour audit required under Condition 5 of Schedule 3.	Viewed "EPL ODOUR EMISSION SURVEY QUARTER 1, 2018 - 2019" prepared by Stephenson Environmental Management Australia on 23 August 2018. This report included results of odour monitoring on Starch Dryer No.5.  Viewed "EPL ODOUR EMISSION SURVEY QUARTER 2, 2018 - 2019" prepared by Stephenson Environmental Management Australia on 23 August 2018. This report included results of odour monitoring on Starch Dryer No.5.	John Studdert, Manildra:  "The 2018 IOA covers the 2017-18 EPL reporting year which ends on 30th April 2018 (EPL anniversary date)  Starch Dryer No.5 was added to the EPL on 20 June 2018."	C	The requirements of the condition are being met.
6E	If the results of odour monitoring show any odour impact greater than that predicted by the odour dispersion modelling in the EA and the modification proposals referred to in Condition 2 of Schedule 2, the Proponent shall investigate and implement further odour treatment options as directed by the Secretary or the EPA.			NT	No results were greater than the predicted modelling.
6F	The Proponent shall conduct odour validation monitoring on the gluten dryers 3 and 4, following implementation of the mitigation controls required by Condition 3D. Results of the odour validation monitoring shall be included in the independent odour audit required under Condition 5 of Schedule 3.	Viewed "Shoalhaven Starches, Independent Odour Audit (2017-2018)" prepared by Northstar Air Quality on 18 September 2018 which included DDG Exhaust Stack testing. The report included the results of the quarterly odour validation monitoring for gluten dryers 3 and 4		C	The requirements of the condition are being met.
7	The Proponent shall implement all reasonable and feasible measures to minimise the dust generated by the project.	Viewed Contract Progress and Issues Discussion for "MVR Evaporator – ACE Contract for Foundation and Mechanical/Process Equipment Installation" dated 5 April 2018. Included item to discuss environmental issues, requirement to increase water cart frequency noted.  Viewed random selection of invoices and instructions for water carts (Feb, Mar, Apr 2019 invoices and "Road Sweeper Schedule for June 2018")	John Studdert, Manildra:  "We engage a contractor to undertake daily water cart and road sweeping to minimise dust generation on site."	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
8	During construction, the Proponent shall ensure that: a) all trucks entering or leaving the site with loads have their loads covered; and b) the trucks associated with the project do not track dirt onto the public road network.	Viewed "Manildra Group Shoalhaven Starches Construction Health, Safety and Environmental Management Plan Project Name: Starch MVR Evaporator Project No. N1911" prepared by Manildra on 1 March 2019. Plan includes requirements for trucks to have loads covered and not track dirt onto public road network (Section 23)  Viewed "MVR Completion Tender – Post Tender Review Meeting - IES" dated 15 March 2019 including agenda item to ensure trucks cover loads		C	The requirements of the condition are being met.
9	The Proponent shall ensure the emissions from boiler stacks 2, 4 and combined boiler stack 5 and 6 comply with the limits in the EPL.	Viewed Stephenson Environmental Management Australia reports for Boiler 2:  - STACK EMISSION SURVEY – ANNUAL, 2015-2016 - STACK EMISSION SURVEY – ANNUAL, 2016-2017 - STACK EMISSION SURVEY – ANNUAL, 2014-2015  A sample of results from these reports was reviewed and all complied with EPL limits.  Viewed Stephenson Environmental Management Australia reports for Boiler 5/6:  - COMPLIANCE STACK EMISSION SURVEY (Quarterly) for 2016-17; 2017-18; and 2018-19. A sample of results from these reports was reviewed and all complied with EPL limits.  Viewed Annual Environmental Report 2017 which reported an exceedance of the EPL opacity limit on 7 March 2017.	John Studdert, Manildra:  "Boiler 4 (Point 42) has undergone recent conversion works from gas-fired (no previous EPL emission limits) to coal-fired as per MOD 13 approval.  The post commissioning emission testing will occur this quarter."	NC	One exceedance of the EPL opacity limit was recorded during the audit period.  Appropriate corrective actions (including preventative maintenance) have already been put in place. No further recommendation is considered necessary.
9A	The sulfur content of boiler 2, boiler 4 and boiler 5/6 coal must not exceed 0.4% by weight (air dried basis).	Viewed "Clarence Sized Coal (QENOS) Report 2018" dated 31 March 2019 by ALS Laboratory and "Clarence Sized Coal (QENOS) Report 2019 to March 2019" dated 31 March 2019 by ALS Laboratory.  Monthly results for sulfur content in all cases was below 0.4%.	John Studdert, Manildra:  "Results go back to Jan 2018 which is when MOD 13 was approved"	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		Viewed a sample of "Analysis and Testing Reports" prepared by ALS Gunnedah in 2018 and 2019. All reported sulfur contents were below 0.4%.			
9B	<p>Within three months of commissioning a modification to boiler 2, 4 and/or 6 and again after all boiler modifications have been commissioned, as described in MOD 13, the Proponent shall submit a written report to the Secretary and the EPA detailing the results of post-commissioning monitoring. The report shall:</p> <p>a) include the results of source emissions sampling and analysis undertaken in accordance with the requirements in Table B;</p> <p>b) include data to demonstrate the operational capacity of the boilers during sampling, with sampling undertaken when the boilers are operating at maximum capacity; and assess compliance with the limits in Table C.</p> <p>c) assess compliance with the limits in Table C.</p>	<p>Viewed email from John Studdert, Manildra to Deana Burn, DPE and Stefan Press, EPA "Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 9B - Post Commissioning Verification" dated 13 February 2019 referencing "attached a post commissioning verification report for Boilers No.5 and No.6, submitted to the Secretary and the EPA in accordance with condition 9B of Shoalhaven Starches Project Approval MP06_0228 MOD 13".</p> <p>Viewed email from Stefan Press, EPA to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 9B - Post Commissioning Verification" dated 18 March 2019. This email states that "It is noted that the report shows compliance with the current air emissions limits for Point 35 in EPL No. 883." The email also refers to future testing that will be required following completion of conversion works on Boiler 2 and 4.</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE and Stefan Press, EPA "Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 9B - Post Commissioning Verification - Boiler 4" dated 29 April 2019 submitting the post commissioning verification report for Boiler No.4 the Secretary and the EPA.</p> <p>Viewed report "COMPLIANCE STACK EMISSION SURVEY – QUARTER NO. 4, 2018-2019 EMISSION POINT EPL ID 42 - (SERVING BOILER NO. 4)" prepared by Stephenson Environmental Management Australia and dated 16 April 2019. The report includes:</p>	<p>John Studdert, Manildra:</p> <ul style="list-style-type: none"> <li>- Boiler No.6: commissioning November 2018</li> <li>- Boiler No.4: commissioning January 2019</li> <li>- Boiler No.2: commissioning March 2019, waiting on installation of stack sampling point and baghouse penthouse (due 24th June 2019) prior to testing.</li> </ul> <p>The limits as referred to Table C (in condition 9Bc) have inadvertently been left out of the approval, however they are derived from the new EPL limits set as part of the MOD 13 approval "</p>	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>- sampling results</p> <p>- production conditions confirmation ("operating at maximum capacity")</p> <p>Viewed report "COMPLIANCE STACK EMISSION SURVEY – QUARTER NO. 4, 2018-2019 EMISSION POINT EPL ID 35 - (SERVING BOILER NO. 5&amp; 6)" prepared by Stephenson Environmental Management Australia and dated 12 October 2018. The report includes:</p> <p>- sampling results</p> <p>- production conditions confirmation ("Normal boiler operating conditions during emission testing")</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra dated 28 May 2019 "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 9B - Post Commissioning Verification - Boiler 4" noting:</p> <p><i>"receipt of the post-commissioning boiler verification sampling reports for Boilers 4 and 5/6. I understand there will be one more when boiler 2 is converted. I have discussed with EPA and we have no concerns with the boiler reports so far."</i></p> <p>Viewed letter from Stefan Press, EPA to Deana Burn, Planning "RE MOD 13..." dated 28 November 2017 providing recommended conditions for approval for MOD 13.</p>			
9C	If the post commissioning verification report shows that an emission concentration limit is not being met, the Proponent is required to implement all reasonable and feasible measures to achieve compliance with the relevant limit, to the satisfaction of the Secretary.			NT	The limits are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
10	The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Secretary. This program must: a) be prepared in consultation with EPA; b) be submitted to the Secretary for approval within 3 months of this approval; and c) include a program to monitor the ongoing performance of the project.	Viewed "AIR QUALITY MONITORING PLAN" dated 16 November 2018.  Viewed letter from Deana Burn, Department of Planning dated 15 September 2009 confirming the submitted plan satisfies the condition.  The Plan included a program to monitor ongoing performance of the project. A range of monitoring locations are included, along with sampling frequency and parameters for testing (including odour, flow, temperature, moisture, SO2 and others depending on point location and source).  Monitoring is being carried out in accordance with the Plan, demonstrating effective implementation.		C	The Plan has been prepared to the satisfaction of the Secretary, and is being implemented, however the auditor notes that there is no record of the plan being prepared in consultation with the EPA.  <b>Opportunity for Improvement:</b>  Ensure that consultation requirements for conditions are complied with and recorded in relevant plans and documents.
10A	The Proponent shall implement the Dust Management Plan included in the EA for MOD 6.		John Studdert, Manildra:  "Condition 10A was complied with in the 2016 audit"	NT	The works associated with this condition were completed prior to the start of the audit period.
10B	The Proponent shall install, register and maintain cooling towers in accordance with the Public Health Act 2010.		John Studdert, Manildra:  "The CO2 Plant (MOD 15) & associated cooling tower is still under construction."	NT	The requirements for the condition have not yet been triggered.
11	The Proponent shall comply with the restrictions in Table 1.  Note: Construction activities may be conducted outside the hours in Table 1 provided that the	Viewed "Manildra Group Shoalhaven Starches Construction Health, Safety and Environmental Management Plan Project Name: Starch MVR Evaporator Project No. N1911" prepared by Manildra on 1 March 2019. Plan includes construction hours (noise).		C	There was no evidence of non-compliance with the restrictions in Table 1.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	activities are not audible at any residence beyond the boundary of the site.	Viewed "MVR Completion Tender – Post Tender Review Meeting - IES" dated 15 March 2019 including agenda item regarding working hours (noise).			
12	<p>The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.</p> <p>Note: To interpret the locations referred to Table 2, see the maps in Appendix 4. Noise generated by the project is to be measured in accordance with the relevant requirements of the EPA's Noise Policy for Industry 2017.</p>	<p>Viewed noise monitoring reports prepared by The Acoustic Group for:</p> <ul style="list-style-type: none"> <li>- March 2016</li> <li>- August 2016</li> <li>- February 2017</li> <li>- August 2017</li> <li>- February 2018</li> <li>- August 2018</li> <li>- February 2019</li> </ul> <p>In all cases the authors reported that</p> <p style="text-align: center;"><i>"the plant contribution is lower than the measured background level and automatically lower than the measured Leq level of the ambient (which was not determined by the plant)", with one exception in February 2016 where they noted that "The derived sound level contributions reveal noise for the plant marginally exceeded the current EPA limit."</i></p> <p>Viewed noise monitoring report prepared by the Acoustic Group for the Paper Mill Site for February 2019. The plant contribution was lower than the limits.</p> <p>Viewed the annual environmental reports for 2017 that reported the non-compliances with these EPL limits (on 5 August 2016).</p>		NC	<p>On one occasion noise monitoring showed that the noise for the plant marginally exceeded the current EPL limit.</p> <p>Installed new silencer and low noise fan on Gluten Dryer No.2. No further recommendation is considered necessary.</p>
13	During construction, the Proponent shall implement all reasonable and feasible measures to	Viewed "Manildra Group Shoalhaven Starches Construction Health, Safety and Environmental Management Plan Project Name: Starch MVR	John Studdert, Manildra:	C	The requirements of the condition are being met and there

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	minimise the construction noise impacts of the project.	<p>Evaporator Project No. N1911" prepared by Manildra on 1 March 2019. Plan includes construction hours (noise).</p> <p>Viewed "MVR Completion Tender – Post Tender Review Meeting - IES" dated 15 March 2019 including agenda item regarding working hours (noise).</p> <p>Viewed annual environmental reports for 2016, 2017 and 2018 and found no record of noise complaints related to construction.</p>	<p>"Noise minimisation during construction is communicated (via meetings/toolbox talks) through the Construction Health, Safety &amp; Environmental Management plans and review of SWMS, ATW's, JSA's, &amp; other permits.</p> <p>The Project Supervisor undertakes daily site inspections and any issues are followed up with daily tool-box talks to discuss current works and any safety/environmental issues."</p>		is no record of complaints from construction-related noise.
13A	<p>The Proponent shall implement a Construction Noise Management Plan (CNMP) to manage the noise impacts of construction of MOD 9 and MOD 10. The CNMP shall:</p> <ol style="list-style-type: none"> <li>be prepared in accordance with the EPA's Interim Construction Noise Guideline;</li> <li>be approved by the Secretary prior to the commencement of piling works on MOD 9 and MOD 10;</li> <li>include procedures for notifying affected residences of the timing and duration of piling works; and</li> <li>include procedures for proactively responding to noise complaints and implementing all reasonable and feasible work practices to limit construction noise impacts.</li> </ol>	<p>Viewed "Construction Noise Management Plan Flour Mill B" dated 29 March 2018.</p> <p>Viewed "Construction Noise Management Plan Packing Plant MOD 10" dated 9 June 2017.</p> <p>The introduction to the plans notes the requirement to prepare the plan in accordance with the guidelines.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to Brian Hanley, Manildra, dated 29 March 2018 approving the CNMP (MOD 9)</p> <p>Viewed letter from Chris Ritchie, Department of Planning to Brian Hanley, Manildra, dated 15 June 2017 approving the CNMP (MOD 10)</p> <p>The MOD 9 plan includes the following mitigation measure:</p> <p><i>"Notify residences along Meroo St (in a reasonable vicinity of the works), and nearby commercial &amp; industrial premises, reasonably ahead of time (at least 2 days) on information such as what works are expected to be noisy, anticipated</i></p>	<p>John Studdert, Manildra:</p> <p>"Noise minimisation during construction is communicated (via meetings/toolbox talks) through the Construction Health, Safety &amp; Environmental Management plans and review of SWMS, ATW's, JSA's, &amp; other permits.</p> <p>The Project Supervisor undertakes daily site inspections and any issues are followed up with daily tool-box talks to discuss current works and any safety/environmental issues."</p>	C	<p>The CNMP is being implemented and there is no record of complaints from construction-related noise.</p> <p><b>Opportunity for Improvement:</b></p> <p>Consider a monthly review of subcontractor pre start / toolbox talks to check that noise issues (and any other high-risk impacts) are discussed either from time to time or to coincide with noisy works.</p> <p>Consider revision of CNMPs to ensure proposed mitigation measures are suitable</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p><i>commencement of construction (including piling works) and duration."</i></p> <p>The MOD 10 plan includes the following mitigation measure:</p> <p><i>"Notify potentially affected nearby commercial &amp; industrial premises reasonably ahead of time (at least 2 days) on information such as what works are expected to be noisy, anticipated commencement of construction (including piling works) and duration"</i></p> <p>The plans include a range of noise mitigation measures to limit noise impacts.</p> <p>Procedures to respond to complaints are included in a "Complaints Handling" section and additional procedure (appended to both plans).</p> <p>Viewed "MVR Completion Tender – Post Tender Review Meeting - IES" dated 15 March 2019 including agenda item to review project working hours</p> <p>Viewed Contract Progress and Issues Discussion for "MVR Evaporator – ACE Contract for Foundation and Mechanical/Process Equipment Installation" dated 5 April 2018. Included item to discuss environmental issues.</p> <p>Viewed "Daily Pre-Start Meeting form" for Clyne Engineering, dated 3 June 2019. Space to include daily operations issues and safety issues. Noise issues are not mentioned in the specific example reviewed.</p> <p>Viewed annual environmental reports for 2016, 2017 and 2018 and found no record of noise complaints related to construction.</p>	<p>"We do not have any evidence of notification for MOD 10 (would have been verbal if any) however from a noise perspective it would not be required for this project due to:</p> <ul style="list-style-type: none"> <li>- the location of the construction site on the south side of factory (~ 270 metres from the closest industrial/commercial receiver); and</li> <li>- the factory noise being the dominant noise source, any noise associated with construction works is unlikely to be detected at the nearest receiver."</li> </ul>		<p>for the nature of works being undertaken and their location.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
14	The Proponent shall prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: a) be prepared by a suitably qualified and experienced expert in consultation with EPA, and be submitted to the Secretary for approval within 3 months of this approval; b) describe the measures that would be implemented to control the noise impacts of the project; c) identify trigger levels for remedial action; and d) include a program to: investigate ways to reduce the noise impacts of the project; and monitor the noise impacts of the project using a combination of real-time and supplementary attended monitoring measures, which includes a protocol for evaluating compliance with the noise limits.	Viewed approved Noise Management Plan (verified in 2016 audit). The NMP was approved by the NSW Department of Planning & Environment on the 19 May 2011  Viewed Operational Noise Management Plan dated 21 August 2018. This is a summary document of the original approved NMP.  Measures from the approved NMP have been carried into the OMNP  The ONMP includes noise limits for normal operation and the hours of operation and construction for the project. However remedial action linked to specific trigger levels could be better transferred from the original plan (refer Attachment 3, Section 3 Protocol for Exceedance)  Annual reporting and review requirements in the ONMP include opportunities for improvement to plans and strategies based on review findings.  Noise monitoring requirements have been transferred across to the ONMP.	Whilst on site several mitigation measures were verified for evidence of implementation:  - Plant doors and windows are to be kept closed where appropriate.  Documented evidence of implementation also viewed:  - Where practical, noise mitigation measures of plant equipment to be implemented such as the use of enclosures and silencing exhausts (viewed additional evidence of broadband alarms installed on forklifts)  - Construction and operations hours for the site must be followed (viewed construction tender and contract documents which include requirements for meeting site hours)	C	The Plan has been prepared and is being implemented.  <b>Opportunity for Improvement:</b>  Consider including the requirement to respond to "noise exceedances", from the original NMP rather than more generally "excessive noise" to ensure that specific remedial actions are linked to actual trigger levels.
14A	The Proponent shall design and construct the relocated starch dryer in accordance with the design specifications included in the EA for MOD 7.	Viewed "SHOALHAVEN STARCHES - STARCH DRYER No. 5 (MOD 7) NOISE VALIDATION REPORT" prepared by Harwood Acoustics dated 2 August 2018.  The report states that:  <i>"The Starch Dryer No. 5 building has been constructed using materials meeting the requirements of the 2015 NIA (and consequently the EA for Mod 7)."</i>		C	The requirements of the condition are being met.
14B	Within 12 months of operation of the relocated starch dryer, the Proponent shall undertake noise	Viewed "SHOALHAVEN STARCHES - STARCH DRYER No. 5 (MOD 7) NOISE VALIDATION REPORT" prepared by Harwood Acoustics dated 2 August 2018.	John Studdert, Manildra:	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	validation to confirm that the noise levels comply with the predictions in the EA for MOD 7.	The report states that:  <i>"Visual inspections and noise measurements and predictions show the level of noise emission from the operation of Starch Dryer No. 5 is with the design noise goals at all residential receptor locations. "</i>	"This occurred within 12 months of operation."		
14C	If the results of noise validation show any noise impact greater than that predicted in the EA and the modification proposals referred to in Condition 2 of Schedule 2, the Proponent shall investigate and implement all reasonable and feasible noise mitigation measures to achieve compliance.	Viewed "SHOALHAVEN STARCHES - STARCH DRYER No. 5 (MOD 7) NOISE VALIDATION REPORT" prepared by Harwood Acoustics dated 2 August 2018.  The report states that:  <i>"Visual inspections and noise measurements and predictions show the level of noise emission from the operation of Starch Dryer No. 5 is with the design noise goals at all residential receptor locations. "</i>  <i>"Ongoing compliance is further evidenced by the six-monthly assessment undertaken by the Acoustic Group Pty Ltd in February 2018 whilst Starch Dryer No. 5 was operational."</i>		NT	Noise impacts are not greater than those predicted in the EA.
14D	The Proponent shall design and install silencers on the discharge side of each fan on the modified flour mill in accordance with the acoustic specifications included in the EA for MOD 8. The Proponent shall provide written evidence to the Secretary, prior to the commencement of operation of the modified flour mill, confirming that the silencers have been installed in accordance with the specifications detailed in the EA for MOD 8.	Viewed letter from Mark Manion, Manildra to Chris Ritchie, Department of Planning re "Schedule 3, Condition 14D - MP 06_0228 MOD 8 Alterations to Flour Mill" dated 26 September 2016.  The letter informs the Department that the silencers have been installed. It includes design drawings and a photo showing the constructed silencer.  Viewed email from Deana Burn, Department of Planning, to John Studdert, Manildra on 16 March 2017 confirming receipt of the letter.		C	The requirements of the condition are being met.
14E	Within 12 months of operation of the modified flour mill, the Proponent shall undertake noise validation to confirm that the noise levels comply	Viewed "SHOALHAVEN STARCHES - MODIFIED FLOUR MILL (MOD 8) NOISE VALIDATION REPORT" prepared by Harwood Acoustics on 15 November 2017.		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	with the predictions in the EA for MOD 8, to the satisfaction of the EPA.	Viewed email from John Studdert, Manildra to Stefan Press, EPA dated 16 November 2017 providing a copy of the noise validation report.  Viewed email from Stefan Press, EPA to John Studdert, Manildra dated 25 May 2018 stating the agency is satisfied with the report.			
14F	<p>Prior to the commencement of operation of the packing plant, the Proponent shall provide evidence to the satisfaction of the Secretary to confirm that the design specifications detailed in the EA for MOD 9 have been implemented. The design specifications include:</p> <ul style="list-style-type: none"> <li>a) the walls and ceiling of the packing plant building have a minimum weighted sound reduction index of Rw 33, unless otherwise agreed in writing by the Secretary;</li> <li>b) all external doors are a minimum 44 millimetres thick, solid core timber construction, or equivalent material, in well-sealed frames;</li> <li>c) building openings without acoustic treatments shall not exceed 36 square metres and shall be located in the south-eastern part of the packing plant building, as shown in Appendix 2I;</li> <li>d) external motors on the five storage silos shall have a maximum sound power level of 78dB(A), unless otherwise agreed to by the Secretary in accordance with condition 14H;</li> <li>e) permanent sound barriers a minimum 11m high relative to the finished ground level of the container storage yard. Barriers shall extend along the entire</li> </ul>		<p>John Studdert, Manildra:  "Conditions 14F, 14G, 14H &amp; 14I have not been triggered as the Packing Plant (MOD 9) has not been constructed."</p>	NT	Works associated with the modification have not commenced.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>length of the north-western boundary of the container storage area, connecting to the packing plant along the north-eastern boundary (see the figure in Appendix 2I);</p> <p>f) permanent sound barriers a minimum 9 m high relative to the finished ground level of the container storage yard, along the south-western side of the rail spur lines, as shown in the figure in Appendix 2I; and</p> <p>g) sound barriers shall be constructed as solid masonry walls, or other equivalent material, without holes or gaps, other than a maximum of 50mm at the base.</p>				
14G	<p>The Proponent shall:</p> <p>a) ensure roller door openings on the south-western facade remain closed when containers are not being loaded in this location;</p> <p>b) locomotive shunting does not occur whilst trains are being un/loaded;</p> <p>c) stacking of containers is limited to a maximum of three containers high; and</p> <p>d) minimise the stacking of containers during the night-time period.</p>		<p>John Studdert, Manildra:</p> <p>"Conditions 14F, 14G, 14H &amp; 14I have not been triggered as the Packing Plant (MOD 9) has not been constructed."</p>	NT	Works associated with the modification have not commenced.
14H	<p>Prior to the construction of any external mechanical plant exceeding a sound power level of 78dB(A), the Proponent shall prepare a noise validation report to demonstrate that operation of the mechanical plant meets the noise limits in condition 12. The noise validation report shall:</p>		<p>John Studdert, Manildra:</p> <p>"Conditions 14F, 14G, 14H &amp; 14I have not been triggered as the Packing Plant (MOD 9) has not been constructed."</p>	NT	Works associated with the modification have not commenced.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<ul style="list-style-type: none"> <li>a) be prepared by an appropriately qualified and experienced noise expert;</li> <li>b) be approved by the Secretary, prior to the installation of external mechanical plant;</li> <li>c) demonstrate that the location, design and operation of external mechanical plant would achieve the noise limits in Condition 12;</li> <li>d) describe any acoustic treatments required to ensure compliance with the noise limits in Condition 12; and</li> <li>e) if necessary, recommend, prioritise and implement measures to improve noise controls on-site to ensure the Development meets relevant criteria and protects off-site receivers from excess noise.</li> </ul>				
14I	Within 12 months of operation of the modified packing plant, the Proponent shall undertake noise validation to confirm that the noise levels comply with the predictions in the EA for MOD 9, to the satisfaction of the EPA.		John Studdert, Manildra: "Conditions 14F, 14G, 14H & 14I have not been triggered as the Packing Plant (MOD 9) has not been constructed."	NT	Works associated with the modification have not commenced.
14J	<p>Prior to the commencement of operation of flour mill B and the mill feed structure, the Proponent shall provide evidence to the satisfaction of the Secretary to confirm that the design specifications detailed in the EA for MOD 10 have been implemented. The design specifications include:</p> <ul style="list-style-type: none"> <li>a) the walls of the flour mill B building have a minimum weighted sound reduction index of Rw 24;</li> </ul>	<p>Viewed "SHOALHAVEN STARCHES - PROPOSED FLOUR MILL B (MOD 10) NOISE VALIDATION REPORT" prepared by Harwood Acoustics, dated 13 March 2019.</p> <p>The report states:</p> <p><i>"Acoustic louvres have not been installed into the ventilation openings at this stage. This is due to potential changes in the ventilation design and requirements of the building which will be subject to the approval of Modification 16. The majority of these</i></p>	<p>John Studdert, Manildra: "Operation commencement date was July 2018"</p> <p>Viewed windows covered with wood panels on Flour Mill B.</p>	C	<p>The auditor notes that while a response has not yet been received from DPE, at the time of audit only a short period had passed since submission.</p> <p>This condition was found to be compliant based on</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>b) the ceiling of the flour mill B building has a minimum weighted sound reduction index of Rw 23;</p> <p>c) no penetrations in the building walls, or ceiling have occurred without acoustic treatment;</p> <p>d) sections of the northern and eastern walls only may be fitted with acoustic louvres to provide natural ventilation, if required. The required insertion loss of acoustic louvres must be evaluated through a final design noise verification, required under Condition 14L;</p> <p>e) silencers fitted to each exhaust fan must not exceed a sound pressure level of 65Db(A) when measured at a distance of 3 m from the discharge silencer. The level of noise reduction achieved must be demonstrated through as final design noise verification required under Condition 14L, and</p> <p>f) a sound barrier to the south of external mechanical plant at the mill feed structure, as determined by the final design noise verification required under Condition 14L.</p>	<p><i>penetrations have been boarded-up using plywood sheeting and are significantly smaller in size than the initial NIA assumptions. The acoustical performance of the external walls of the building is not comprised by the boarded-up openings and is therefore acceptable "</i></p> <p>The report states:</p> <p><i>"Noise measurements were taken during the site visit and all but one of the silencers were found to satisfy the noise reduction requirements of the NIA and item (e)"</i></p> <p>The report states:</p> <p><i>"Following our site visit it was determined that there is no significant noise producing plant and equipment located externally and sound barrier screening is not required. This item is therefore satisfied."</i></p> <p>Viewed email from John Studdert, Manildra to Deana Burn, Department of Planning re "Shoalhaven Starches Project Approval MP06_0228 MOD 10 Flour Mill B - Condition 14J - Noise Validation", dated 14 March 2019, submitting the above report.</p> <p>No confirmation of approval has been received at the time of the audit.</p>			submission of necessary documentation that addresses each of the criteria.
14K	The Proponent shall ensure all doors to the flour mill B building remain closed at all times when the plant is operating.		Viewed all doors and windows (covered in wood panels) closed during the site visit.	C	The requirements of the condition are being met.
14L	Prior to the construction of flour mill B and the mill feed structure, the Proponent shall prepare a design noise verification report to demonstrate the effectiveness of the noise controls implemented in accordance with Condition 14J. The noise verification report shall:	Viewed "Shoalhaven Starches Design Noise Verification Report – Proposed Flour Mill B" prepared by Harwood Acoustics on 27 April 2017.		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>a) be prepared by an appropriately qualified and experienced noise expert;</p> <p>b) be approved by the Secretary, prior to the construction of flour mill B and the mill feed structure;</p> <p>c) verify the size, location and design of ventilation openings, acoustic louvers, silencers to be fitted on the exhaust fans and the design of acoustic barriers around external mechanical plant;</p> <p>d) demonstrate that the location, design and operation of the flour mill B and mill feed structure would achieve the noise limits in Condition 12; and</p> <p>e) if necessary, recommend, prioritise and implement measures to improve noise controls on-site to ensure the Development meets relevant criteria and protects off-site receivers from excess noise.</p>	<p>Viewed Matthew Harwood (report author) LinkedIn Profile which states he has worked as an acoustic consultant since 2003.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to John Studdert, Manildra, "Shoalhaven Starches Ethanol expansion Project MOD 10 - Noise management" dated 15 June 2017 approving this condition.</p> <p>Section 2 of the Report satisfies this requirement. The report concludes:</p> <p><i>"The proposed construction methods and proposed noise attenuation methods are acceptable and satisfy the recommendations made in the original noise impact assessment as well as the Noise Validation requirements of Condition 14L"</i></p> <p>The report concludes:</p> <p><i>"The proposed construction methods and proposed noise attenuation methods are acceptable and satisfy the recommendations made in the original noise impact assessment as well as the Noise Validation requirements of Condition 14L"</i></p> <p>The report states:</p> <p><i>"Based on the proposed location and existing on-site structures it is unlikely there will be line of sight to any residential receptor from this plant. This external mechanical plant produces low levels of noise and we do not envisage that any further noise controls will be required."</i></p> <p><i>A post construction noise compliance assessment may be undertaken prior to commissioning to confirm the noise emission</i></p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p><i>from this external plant is within acceptable limits.</i></p> <p><i>In the event that additional noise controls are required (e.g. sound barrier screen) this can easily be addressed once the plant is installed."</i></p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, Department of Planning, re "Shoalhaven Starches Project Approval MP 06_0228 MOD 10 – Flour Mill B, Condition 14L - Design Noise Verification Report" dated 28 April 2017 that included submission of the report.</p>			
14M	<p>Prior to the construction of any modifications described in Schedule 2, Condition 2, the Proponent shall prepare a design noise verification report to demonstrate the additional plant and equipment will meet relevant design noise goals to ensure noise from the site does not exceed the noise limits in Condition 12. The noise verification report shall:</p> <ol style="list-style-type: none"> <li>be prepared by an appropriately qualified and experienced noise expert;</li> <li>be approved by the Secretary, prior to construction of the modification;</li> <li>demonstrate that the location, design and operation of the modification would achieve the noise limits in Condition 12; and</li> <li>if necessary, recommend, prioritise and implement measures to improve noise controls on-site to ensure the Project as modified meets the noise limits in Condition 12 and protects off-site receivers from excess noise.</li> </ol>	<p>Viewed "SHOALHAVEN STARCHES - PROPOSED MODIFICATION 13 TO MP 06_0228 - BOILERS DESIGN NOISE VERIFICATION REPORT" prepared by Harwood Acoustics and dated 23 March 2018.</p> <p>The report states:</p> <p><i>"The proposed noise design goals for individual items of plant are acceptable to achieve noise limits in the Project Approval MP 06_0228."</i></p> <p><i>"Shoalhaven Starches will stipulate...sound levels in their communication to manufacturers and suppliers to ensure the noise levels are achieved, which will be acceptable."</i></p> <p>Viewed "Shoalhaven Starches Design Noise Verification Report – Proposed Ethanol Distillery Modification (MOD 12)" prepared by Harwood Acoustics and dated 29 September 2017.</p> <p>The report states:</p> <p><i>"The proposed construction methods and noise design goals for individual items of plant are acceptable to achieve noise limits</i></p>	<p>Verified on site:</p> <p>MOD 11..."<i>it is now proposed to locate the DDG Dryer within an enclosed, sheet steel clad building. This is likely to result in lower than predicted levels of noise emission from the operation of the Dryer itself."</i></p>	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p><i>in Condition 12 of the Project Approval 06_0228"</i></p> <p><i>"Shoalhaven Starches will stipulate these sound levels in their communication to manufacturers and suppliers to ensure the noise levels are achieved, which will be acceptable."</i></p> <p>Viewed "Shoalhaven Starches Design Noise Verification Report – Proposed Modification 11 to MP06_0228 DDG Dryer" prepared by Harwood Acoustics and dated 15 February 2019</p> <p>The report states:</p> <p><i>"The proposed noise design goals for individual items of plant are acceptable to achieve noise limits in the Project Approval MP 06_0228."</i></p> <p><i>"It is now proposed to locate the DDG Dryer within an enclosed, sheet steel clad building. This is likely to result in lower than predicted levels of noise emission from the operation of the Dryer itself."</i></p> <p>Viewed "Shoalhaven Starches &amp; Supagas Design Noise Verification Report – CO2 Plant" prepared by Harwood Acoustics and dated 25 February 2019</p> <p><i>"The proposed noise design goals for the operation of the CO2 plant are acceptable to achieve noise limits in Supagas Pty Ltd's Environment Protection Licence 21178"</i></p> <p>Viewed Matthew Harwood (report author) LinkedIn Profile which states he has worked as an acoustic consultant since 2003.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to John Studdert, Manildra, dated 6</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>September 2018 finding the MOD13 report satisfactory.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to Brian Hanley, Manildra, dated 2 November 2017 finding the MOD 12 report satisfactory.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to John Studdert, Manildra, dated 15 May 2019 finding the MOD 15 report satisfactory.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to John Studdert, Manildra, dated 15 May 2019 finding the MOD 11 report satisfactory.</p>			
14N	<p>Within 12 months of operation of each modification described in Schedule 2, Condition 2, the Proponent shall undertake noise validation monitoring to confirm noise from the modified site complies with the noise limits in Condition 12. The results of noise validation monitoring shall be included in the Annual Report required by Schedule 4, Condition 3. If the results of monitoring show any exceedance of the noise limits in Condition 12, the Proponent shall investigate and implement all reasonable and feasible noise mitigation measures to achieve compliance.</p> <p>Note: If a modification does not require a design noise verification report or validation monitoring as required by Conditions 14M and 14N, the Proponent shall provide written justification to the satisfaction of the Secretary.</p>	<p>Viewed AEMR for 2016 which stated that in the 2016 reporting period there were two non-compliances with the sites noise limits at Nobblers Lane Terara (40 dBA) in July 2015 and at Meroo St Bomaderry (43 dBA) in February 2016.</p> <p>Viewed AEMR for 2017 which stated that in the 2017 reporting period there was one non-compliance with the sites noise limits at Nobblers Lane Terara (&lt;40 dBA) in August 2016.</p> <p>Viewed AEMR for 2018 which stated that results were 100% compliant with limits.</p>		C	The requirements of the condition are being met (this condition requires the validation is undertaken, not that compliance is achieved).
14O	The Proponent must ensure all mobile plant and equipment used on the Paper Mill site are fitted with broadband alarms, not tonal reversing alarms, to minimise noise from the Paper Mill site.	Viewed "Environmental Noise Impact Assessment Shoalhaven Starches - Proposed Use of Former Paper Mill Site" dated 21 December 2017 that states:		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p><i>"Noise sources associated with the proposal will be minimal and include the operation of a container forklift and truck movements occurring in the outdoor storage areas".</i></p> <p>Viewed email from Peter Vantin, Plant Engineer Manildra, to John Studdert, Quality Assurance and Environment Coordinator, Manildra "RE: Reverse alarms" dated 16 May 2019 including a snapshot of a reverse alarm brochure, and stating:</p> <p><i>"This (sic) reverse alarms as detailed in email below have been installed on all 6 container forklifts today."</i></p>			
15	<p>Except as may be expressly provided in an EPL for the project, the Proponent shall:</p> <p>a) comply with Section 120 of the POEO Act; and</p> <p>b) not discharge any wastewater, including treated wastewater to the Shoalhaven River.</p>	<p>A penalty notice was issued by the NSW EPA on 18 May for failing to undertake activities in a competent manner, however this was issued as a contravention of Section 64(1) of the Act (refer Schedule 2, Condition 11).</p>	<p>No discharges were viewed during the site visit.</p>	C	<p>No evidence of non-compliance with Section 120 of the POEO Act was viewed.</p>
16	<p>The Proponent shall prepare and implement a Water Savings Action Plan and an Energy Savings Action Plan for the project to the satisfaction of the Secretary. These plans must be prepared:</p> <p>a) in consultation with DWE and be submitted to the Secretary for approval within 12 months of this approval; and</p> <p>b) in accordance with the Guidelines for Water Savings Action Plans (DEUS 2005) and Guidelines for Energy Savings Action Plans (DEUS 2005), respectively.</p>	<p>Letter from Department of Planning and Infrastructure dated 21st June 2011, granting approval of the Water Savings Action Plan and the Energy Savings Action Plan viewed in 2013 audit.</p> <p>Viewed the spreadsheets "ESAP Implementation" and "WSAP Implementation" which described a range of energy and water savings initiatives that have been carried out on site.</p> <p>Letter from Department of Planning and Infrastructure dated 21 June 2011, granting approval of the Water Savings Action Plan and the Energy Savings Action Plan viewed in 2013 audit.</p> <p>Letter from Department of Planning and Infrastructure dated 21 June 2011, granting approval of the Water Savings Action Plan and the Energy Savings Action Plan viewed in 2013 audit.</p>		C	<p>The requirements of the condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
17	<p>The Proponent shall store all chemicals, fuels and oils used on site in appropriately bunded areas, with impervious flooring and sufficient capacity to contain 110% of the largest container stored within the bund. These bunds shall be designed and installed in accordance with the requirements of all relevant Australian Standards, and/or DECC's Storing and Handling Liquids: Environmental Protection manual.</p> <p>Note: To avoid any doubt, this condition does not apply to the fermenters on site.</p>		All chemicals, fuels and oils used on site were observed in appropriately bunded areas with the exception of some intermediate bulk containers (IBC) in various locations on site.	NC	<p>The Proponent has not yet completed a review of the hazardous substance storage depots as recommended in the 2016 audit.</p> <p>The auditor notes that a consultant has been engaged to undertake the review of the hazardous substance storage depots and it is scheduled to be completed by December 2019. No further recommendation is considered necessary.</p>
18	<p>The Proponent shall:</p> <ul style="list-style-type: none"> <li>- ensure that only VENM or ENM or other material approved in writing by the EPA is used as fill on the site;</li> <li>- keep accurate records of the volume and type of fill to be used;</li> <li>- make these records available to the Department upon request.</li> </ul>	<p>Viewed "Soil Classification Certificate" prepared by ENRS on 16 March 2018 certifying that fill obtained from South Coast Correctional Centre was VENM. Certificate included appended test results and transport documentation.</p> <p>Viewed EPA certification for VENM dated 16 March 2018.</p>	<p>John Studdert, Manildra:</p> <p>"Small amounts of fill (road base/ gravel) used for preparation &amp; compaction activities associated with civils/slab. No fill register kept for this."</p>	C	<p>Only VENM / ENM are being used as fill on site.</p> <p><b>Opportunity for Improvement:</b></p> <p>Maintain a fill-import register for all material import activities.</p>
19	<p>The Proponent shall prepare and implement an Erosion and Sediment Control Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> <li>a) be submitted to the Secretary before the commencement of construction on site;</li> <li>b) be prepared in accordance with Landcom's</li> </ol>	<p>Erosion and Sediment Control Plan dated November 2016, prepared by John Studdert (Manildra)</p> <p>Letter from Department of Planning dated 17th April 2009, granting approval of the Plan viewed in 2013 audit.</p>	Viewed the recently installed HumeCeptor on site treating stormwater from a large area of the site.	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>Managing Urban Stormwater: Soils and Construction manual;</p> <p>c) identify the works that could cause soil erosion and generate sediment;</p> <p>d) describe the location, function, and capacity of the erosion and sediment controls that would be implemented; and</p> <p>e) describe the measures that would be implemented to maintain these controls during the construction period.</p> <p>Note: the provisions of this plan shall be implemented for all construction works associated with the project and/or modification approved thereafter.</p>	<p>Viewed "Manildra Group Shoalhaven Starches Construction Health, Safety and Environmental Management Plan Project Name: Starch MVR Evaporator Project No. N1911" prepared by Manildra on 1 March 2019. Plan includes requirements Stormwater management.</p>			
19A	<p>Prior to the commencement of works associated with MOD 6, the Proponent shall implement the Erosion and Sediment Control Plan included in the EA for MOD 6.</p>			NT	<p>Determined to be compliant in 2016 audit and no further works have been required for MOD 6 (completed prior to 2016 audit)</p>
20	<p>Prior to the commencement of construction, unless otherwise agreed by the Secretary, the Proponent shall demonstrate to the satisfaction of the Secretary that an accredited site auditor has prepared a site audit statement and summary site audit report and that the site is suitable for its intended use(s).</p>	<p>Complied with for 2013 audit for site generally.</p> <p>Letter from Department of Planning dated 17 April 2009 granting approval for both Site Audit Reports viewed in 2013 audit.</p> <p>Additional site contamination audit undertaken for Packing Plant.</p> <p>Viewed "Contaminated Site Audit Proposed Packing Plant, Bolong Road, Bomaderry" by Tim Chambers, Environmental Strategies dated 6 July 2016 which concluded the site was suitable for use as a packing plant.</p> <p>Viewed Site Audit Statement TNC075 by Tim Chambers, Environmental Strategies to determine land use suitability for Packing Plant and dated 6 July</p>	<p>John Studdert, Manildra:</p> <p>"The original site contamination audit did not include the Packing Plant site."</p>	C	<p>The requirements of the condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>2016. The Statement confirms the site is suitable for commercial / industrial purposes.</p> <p>Viewed letter from Chris Ritchie, Department of Planning, to John Studdert, Manildra dated 16 March 2017 confirming the site audit plan satisfies the conditions.</p>			
20A	<p>Prior to the commencement of construction of the works associated with MOD 7 and MOD 9, the Proponent shall prepare an unexpected finds protocol to ensure that potentially contaminated material is appropriately managed. Any material identified as contaminated shall be disposed of off-site, with the disposal location and results of testing submitted to Council, prior to its removal from the site.</p>	<p>Viewed Unexpected Finds Protocol prepared by Coffey's dated 24 December 2015 as part of 2016 audit (for MOD 7)</p> <p>Viewed Unexpected Finds Protocol prepared in-house by ENRS Geologist and Environmental Consultant dated 16 April 2019.</p>	<p>John Studdert, Manildra: "MOD 9 has not commenced."</p>	C	<p>The requirements of the condition that have been triggered are being met.</p>
20B	<p>The Proponent shall implement an unexpected finds protocol for the duration of construction of the modifications described in Schedule 2, Condition 2.</p> <p>Note: If a modification does not involve any subsurface excavations and an unexpected finds protocol is not required, the Proponent shall provide written justification to the satisfaction of the Secretary.</p>	<p>Viewed Unexpected Finds Protocol prepared by Coffey's dated 24 December 2015 as part of 2016 audit (for MOD 7)</p>	<p>John Studdert, Manildra: "Generic UFP developed that can be used for all Projects."</p>	C	<p>The requirements of the condition are being met.</p>
20C	<p>The Proponent shall implement a procedure for the testing, dewatering, storage, treatment and disposal of contaminated groundwater that is intercepted during excavation works for MOD 9.</p>		<p>John Studdert, Manildra: "MOD 9 has not commenced."</p>	NT	<p>MOD 9 has not commenced.</p>
20D	<p>Prior to the commencement of construction work on the container storage area described in MOD 9, the Proponent shall remove asbestos containing materials in accordance with the requirements of Condition 9B in Schedule 2.</p>	<p>Viewed "VALIDATION REPORT MANILDRA GROUP - PACKING PLANT PROJECT" prepared by ENRS, dated 26 May 2016. The report describes completion of asbestos removal works and then states:</p>	<p>John Studdert, Manildra: "Asbestos has been removed in accordance with this condition"</p>	C	<p>The requirements of the condition have been met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		"The primary remediation objectives have been met and the Site may be considered suitable for commercial and industrial land use"			
20E	<p>Prior to the commencement of construction of MOD 12, the Proponent shall:</p> <p>a) conduct further investigations to determine the presence of asbestos containing material in the areas proposed for construction of MOD 12;</p> <p>b) prepare a remedial action plan and implement the recommendations of the plan by the end of September 2017, such as removing or capping asbestos containing material within soils on site;</p> <p>c) update and implement the unexpected finds protocol required by Condition 20A and 20B to address the isolated hydrocarbon contamination near the railway lines; and</p> <p>d) test water in the wastewater storage ponds on the Dairy Farmers site and dispose of to a licensed facility if contaminants exceed relevant trigger levels.</p>	<p>Viewed "VISUAL CLEARANCE CERTIFICATE FOR NON-FRIABLE ASBESTOS FRAGMENTS IN SOIL AND FILL – BALLAST STOCKPILE AREA" prepared by ENRS dated 7 September 2017. The report found "the ground surface at the site is clear for asbestos and the area is now safe to access without the use of asbestos protective equipment. We recommend the stockpiles remain undisturbed pending further investigation."</p> <p>Viewed "UNEXPECTED FINDS PROCEDURE (UFP) – PROPOSED STARCH DRYER AREA, BOLONG ROAD, BOMADERRY, NSW. WORK PROCEDURE FOR HYDROCARBONS IN SOIL" prepared by ENRS and dated 21 September 2017. The report made recommendations for the management of potential hydrocarbons in three areas.</p> <p>Viewed "SURFACE WATER QUALITY ASSESSMENT – FORMER DAIRY FARMERS SITE PONDS NO.1 &amp; 2" prepared by ENRS and dated 21 September 2017. The report found that "In summary, both Ponds present exceedances of the adopted assessment criteria which indicates the waters not suitable for discharge for irrigation without further treatment"</p>	<p>John Studdert, Manildra:</p> <p>"Construction has not commenced.</p> <p>Following up on the pre-construction requirements, there may be several components approved within a MOD, some of which have not been constructed.</p> <p>The MOD 12 condition below relates to the rail line extension area which has not been constructed.</p> <p>a) Complete</p> <p>b) NT</p> <p>c) Construction complete (container storage area). The UFP was updated and implemented</p> <p>d) NT</p> <p>The reports were completed by the end of Sep 2017 and the recommendation was the stockpiles remain undisturbed pending further investigation and a clearance certificate was issued.</p> <p>For the wastewater stored in the ponds, a decision was made not to remove the wastewater (low COD) and the ponds will</p>	NT	Construction works in the impacted area have not commenced.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
			<p>eventually fill up again with rain water and would need to be tested and removed on an on-going basis.</p> <p>The intent is the water will be removed and the ponds filled prior to construction of the rail extension."</p> <p>"The water is still in place; no MOD 12 works in this area."</p> <p>"MOD12 works have started in other areas but not the rail spurs which are the works in that area"</p> <p>"There are no discharges without treatment".</p>		
20F	The Proponent must update the unexpected finds protocol required by condition 20B to include procedures to manage material containing bonded asbestos. The Proponent shall remove asbestos containing materials in accordance with the requirements of Condition 9B in Schedule 2.	Viewed Unexpected Finds Protocol prepared in-house by ENRS Geologist and Environmental Consultant dated 16 April 2019. Instruction to the consultant preparing included requirement to include bonded asbestos in protocol.	John Studdert, Manildra: <p>"The UFP procedure (p.5) to manage potential contamination (including asbestos) is the same. The consultant suggested keeping it simple so contractors can easily refer to and follow."</p>	C	<p>The protocol includes procedures to manage material containing asbestos (which is understood to include bonded asbestos).</p> <p><b>Opportunity for Improvement:</b></p> <p>When the UFP is next updated, include a note that the procedure on p5 covers bonded asbestos.</p>
21	The Proponent shall prepare an Acid Sulfate Soil Management Plan for the project, as modified. The plan must be prepared in accordance with the Acid Sulfate Soils Manual (Acid Sulfate Soils	Viewed letter from Mark Manion, Manildra to Chris Ritchie, Department of Planning re "Acid Sulphate Soil Management Plan MP 06_0228 MOD 8 - Alterations to Flour Mill" dated 8 March 2016 requesting exemption	John Studdert, Manildra:	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>Management Advisory Committee, 1998), and be submitted to the Secretary prior to the commencement of construction.</p> <p>If a modification does not require an update of the plan listed above, the Proponent shall provide written justification to the satisfaction of the Secretary.</p>	<p>from requirement due to no earthworks being carried out as part of modification.</p> <p>Viewed letter from Chris Ritchie, Department of Planning to Mark Manion, Manildra dated 8 March 2016 approving the exemption.</p> <p>Viewed "Acid Sulfate Soil Management Plan Flour Mill B MOD 10" dated June 2017. The Plan confirms it was prepared in accordance with the ASS Manual.</p> <p>Viewed email from Deana Burn, Department of Planning to John Studdert, Manildra "Shoalhaven Starches Consolidated Project Approval 06_0228, Condition 21 - Acid Sulfate Soil Management Plan, Flour Mill B (MOD 10)" dated 15 June 2017 approving the submitted Plan.</p> <p>Viewed "Acid Sulfate Soil Management Plan DDGS Dryers (MOD 11)". The Plan confirms it was prepared in accordance with the ASS Manual.</p> <p>Viewed email from Deana Burn, Department of Planning to John Studdert, Manildra "Shoalhaven Starches Project Approval MP06_0228 MOD 11 DDGS Dryers - Condition 21 - Acid Sulfate Soil Management Plan" dated 30 August 2018 approving the submitted Plan.</p> <p>Viewed "Acid Sulfate Soil Management Plan Beverage Grade Ethanol Plant (MOD 12)". The Plan confirms it was prepared in accordance with the ASS Manual.</p> <p>Viewed email from Deana Burn, Department of Planning to John Studdert, Manildra "Shoalhaven Starches Project Approval 06_0228 MOD 12 Beverage Grade Ethanol Plant - Condition 21 Acid Sulfate Soil Management Plan" dated 2 November 2017 noting receipt of the Plan in accordance with condition.</p>	<p>"Updated ASSMP's have been prepared &amp; submitted for each MOD."</p> <p>"MOD 10 construction commenced in October 2017"</p>		

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Viewed "Acid Sulfate Soil Management Plan Conversion of Boilers (MOD 13)". The Plan confirms it was prepared in accordance with the ASS Manual.</p> <p>Viewed email from Deana Burn, Department of Planning to John Studdert, Manildra "Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 21 - Acid Sulfate Soil Management Plan" dated 23 August 2018 noting receipt of the plan.</p> <p>Viewed "Acid Sulfate Soil Management Plan Supagas Carbon Dioxide Plant (MOD 15)". The Plan confirms it was prepared in accordance with the ASS Manual.</p> <p>Viewed email from Deana Burn, Department of Planning to John Studdert, Manildra "Shoalhaven Starches Project Approval MP06_0228 MOD 15 Supagas Carbon Dioxide Plant - Condition 21 - Acid Sulfate Soil Management Plan" dated 28 March 2019 noting receipt of the Plan.</p>			
22	<p>The Proponent shall prepare a Stormwater Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>a) be prepared in consultation with Council and be submitted to the Secretary for approval prior to the commencement of construction;</p> <p>b) be prepared in accordance with the latest version of Managing Urban Stormwater: Council Handbook (DECC);</p> <p>c) outline measures to manage stormwater to prevent the pollution of waters; and</p> <p>d) include detailed plans of the stormwater system.</p>	<p>Planning approval letter dated 17 September 2009 viewed in previous audits. Latest SMP revision dated 29 March 2019.</p>	<p>John Studdert, Manildra:</p> <p>"Revisions not required to be sent to the Secretary for approval, unless requested (condition 5A)"</p>	C	<p>The requirements of the condition are being met.</p> <p><b>Opportunity for Improvement:</b></p> <p>Discuss the requirements for the approval of plan revisions with Planning and revise this approval to remove any doubt as to the requirement for Planning approval for Plan revisions.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
22A	Prior to the commencement of construction of the temporary car park described in MOD 6, the Proponent shall submit a Stormwater Management Plan to Council describing the stormwater design, discharge location and pollution control for the temporary car park.	Assessed as compliant in 2016 audit.	Viewed adequate sediment controls in place on site.  No evidence of runoff at any point along the boundary.	C	The requirements of the condition are being met.
22B	The Proponent shall update the Stormwater Management Plan for the project to include MOD 7. The plan shall: a) be submitted to Council prior to the commencement of construction; b) detail pipe sizes, pit locations and all associated drainage for the relocated starch dryer; c) detail the location of dedicated drainage paths to the western bank of Abernathy's Creek and describe the erosion protection measures to be implemented; d) include a program for visual monitoring of the creek banks following significant rainfall events; and e) include procedures for ensuring that heavy vehicles and equipment are not stored between the starch dryer and Abernathy's Creek.	Assessed as compliant in 2016 audit.	John Studdert, Manildra:  "There are no records of visual inspections in this area however the monitoring is not required as the area was sealed with concrete and kerb to help prevent stormwater erosion of the Creek Bank.  Condition 22B(d) is derived from Coffey's Annexure 10 Geotechnical Assessment Riverbank Stability (p.6 for Starch Dryer No.5 (MOD 7) as it was proposed to divert surface water drains to the Creek bank.  Due to the unsealed area and surface water flows it was recommended to inspect the creek bank after heavy rainfall events  As part of the starch dryer construction the area was concreted and rain water diverted to an existing concrete drain which flows underground to the Creek "	C	Stormwater is being appropriately managed across site.  <b>Opportunity for Improvement:</b>  Update the Stormwater Management Plan to reflect the changes that have occurred on site and submit to Council for information.
22C	Any excavations undertaken between the starch dryer and Abernathy's Creek shall be supervised by a geotechnical engineer.		John Studdert, Manildra:	NT	The requirements of the condition have not been triggered.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
			"There have been no excavations in this area".		
22D	Within 3 months of the date of this modification, the Proponent shall provide evidence to the satisfaction of the Secretary, confirming the stormwater controls that have been implemented to manage runoff from the coal and woodchip stockpiles on the environmental farm.	<p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval 06_0228, Condition 22D - Stormwater Controls" dated 28 August 2018 including photos of stormwater controls.</p> <p>Viewed letter from Chris Ritchie, DPE to John Studdert, Manildra "Stormwater Controls on Stockpiles" dated 6 September 2018, confirming the department is satisfied with the controls.</p> <p>Viewed Annual Environmental Report 2018 which reported that the Stormwater controls around the coal and woodchip stockpiles on the environmental farm were not implemented within 3 months of the date of MOD 11 approval.</p>		NC	Stormwater controls were not implemented within 3 months of the date of the approval.
22E	Prior to the commencement of construction of MOD 12, the Proponent shall re-instate the table drain on the southern side of Bolong Road to the east of the distillery access. The works shall be completed to the satisfaction of Council.	<p>Viewed "TABLE DRAIN RE-ESTABLISHMENT LAYOUT PLAN" prepared by Allen Price and Scarratts Pty Ltd.</p> <p>Viewed email from Theo Prakash, APS to Aaron Lloyd, Council "MP06_0228 - MOD 12 works - Construction Certificate Application - N27137" dated 28 September 2017 applying for construction certificate for MOD 12 works and including table drain layout plan.</p> <p>Viewed "Application for Construction Certificate" prepared by APS dated 29 September 2017 and including table drain in description of works.</p>	<p>John Studdert, Manildra:</p> <p>"The table drain works has been included in the MOD 12 roadworks required by condition 27 (Council approval is required to access the road reserve)</p> <p>We have sought an extension in time to complete these works.</p> <p>The drawing shows the design of the table drain which has been included in the set of plans sent to Council for approval as part of condition 27.</p> <p>MOD 12 has commenced. This condition is tied up with the road work approvals (cond. 27)"</p>	NC	MOD 12 construction commenced prior to re-instating the table drain.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
23	The Proponent shall ensure runoff and spray from the irrigation of wastewater does not go beyond the boundary of the utilisation areas.	<p>During 2016 audit viewed Standard Operating Procedures for:</p> <ul style="list-style-type: none"> <li>- Irrigation with Pivot Irrigators;</li> <li>- Irrigation with Travelling Irrigators;</li> <li>- Pre-Irrigation Checks</li> </ul> <p>Included requirements not to irrigate within 40m of the boundaries; no runoff to water courses, drains, boundaries or roadways; no ponding; no runoff</p>	No evidence of run-off from site was viewed during site component of audit.	C	The requirements of the condition are being met.
24	The Proponent shall ensure that the pollutants in the soils at the environmental farm do not exceed the soil quality impact assessment criteria outlined in the EPL for the project.	<p>Viewed EPL Annual Returns for:</p> <ul style="list-style-type: none"> <li>- 1 May 2015 to 30 April 2016</li> <li>- 30 April 2016 to 29 April 2017</li> <li>- 30 April 2017 to 29 April 2018</li> </ul> <p>Each included the required monitoring for Point 43 (which includes soil sampling).</p>	<p>John Studdert, Manildra:</p> <p>"There are no soil quality impact criteria in the EPL."</p>	NT	<p>No soil quality impact assessment criteria are outlined in the EPL and the sampling required by the EPL is being undertaken.</p> <p><b>Opportunity for Improvement:</b></p> <p>Consider, in consultation with Planning, rewording the condition to ensure that the department objectives are met.</p>
25	The Proponent shall prepare and implement a Wastewater Management Plan for the project to the satisfaction of the Secretary. This plan must: <ul style="list-style-type: none"> <li>a) be prepared in consultation with EPA and be submitted to the Secretary for approval within 12 months of this approval;</li> <li>b) be prepared in accordance with DECC's Environmental Guidelines: Use of Effluent by Irrigation;</li> <li>c) outline the location, design and management of the irrigation, crop and grazing system, including</li> </ul>	<p>In 2016 audit, viewed "Shoalhaven Starches Ethanol Upgrade, Wastewater Management Plan, Incorporating OEH Changes" dated August 2011 by Dr. John Murtagh and Glenys Lugg. Also viewed Letter from Department of Planning and Infrastructure dated 6 September 2011 granting approval of the Plan.</p> <p>Viewed Environmental Farm Monitoring Reports for 2016 and 2017. Reports included recommendations to improve the effectiveness of the irrigation process and overall wastewater management. The reports</p>	<p>Viewed wastewater plant in operation. Continues to operate efficiently.</p> <p>Viewed irrigation in operation. No irrigation water spreading beyond farm.</p>	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>measures to minimise soil and groundwater degradation; and</p> <p>d) include:</p> <ul style="list-style-type: none"> <li>• baseline data on soil and groundwater quality and characteristics;</li> <li>• wastewater and soil quality impact assessment criteria and the effluent treatment and irrigation system performance measures;</li> <li>• details of the wastewater, soil, silage and groundwater monitoring program;</li> <li>• procedures for the reporting the monitoring results against the criteria and to determine the annual site nutrient and analyte budgets and water balance;</li> <li>• contingency measures to address exceedances, pollutant triggers and problems with the wastewater management systems; and</li> <li>• a description how the effectiveness of actions would be monitored over time.</li> </ul>	<p>demonstrate implementation of the Plan (monitoring on time trends).</p> <p>Viewed EPL Annual Returns for:</p> <ul style="list-style-type: none"> <li>- 1 May 2015 to 30 April 2016</li> <li>- 30 April 2016 to 29 April 2017</li> <li>- 30 April 2017 to 29 April 2018</li> </ul> <p>Each included the required monitoring for Point 43 (which includes soil sampling).</p>			
26	<p>The Proponent shall prepare a Flood Mitigation and Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>a) be prepared in consultation with Council and be submitted to the Secretary for approval within 12 months of this approval;</p> <p>b) include:</p> <p>baseline data on local and regional flooding and the predicted flood impacts of the project;</p> <p>details of all reasonable and feasible measures that would be implemented to minimise on-site and off-site flooding;</p> <p>procedures for the monitoring, assessment and compensation of any flood impacts caused by the project;</p> <p>a program for contribution toward the ALERT Flood Warning System operated by Council and the Bureau of Meteorology; and</p> <p>procedures for collaboration and coordination</p>	<p>Letter from the Department of Planning and Infrastructure dated 28 September 2011, granting conditional approval for the Plan viewed in 2013 audit.</p> <p>"Flood Mitigation &amp; Management Plan" dated 2nd March 2016 by Manildra Group viewed in 2016 audit.</p>	<p>Viewed area where depth marker (management measure in approved Plan) was required to be installed and it was not yet in place.</p>	NC	<p>The flood marker required by the Plan had not been installed.</p> <p><b>Recommendation:</b></p> <p>The auditor notes that the Proponent receives an early flood warning from the SES when the level in the Shoalhaven River near the Nowra Bridge reaches a rising level of 1.3m AHD and responsibility for receiving SES and</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	with the paper mill with respect to flood emergency planning.				Flood Watch warnings has been assigned to the WHS Manager. Accordingly, the auditor recommends that the Proponent either installs the marker, or reconsiders, in consultation with Council, whether this management measure is necessary as part of the overall flood warning system.
26A	<p>The Proponent shall update the Flood Mitigation and Management Plan for the project to include each modification. The plan shall:</p> <p>be prepared in consultation with Council and submitted to the Secretary prior to operation of each modification;</p> <p>b) detail the procedures for managing flood risks during construction, demolition and operation, including flood recovery measures, procedures for ensuring the protection of infrastructure and human safety; and</p> <p>c) identify assembly points, emergency evacuation routes, flood warning alarms and evacuation procedures.</p> <p>d) describe the controls to be implemented to ensure plant, equipment and stockpiles do not become floating debris during flood events.</p> <p>If a modification does not require an update of the plan listed above, the Proponent shall provide</p>	<p>Viewed "Flood Mitigation &amp; Management Plan" prepared by Manildra, dated 25 September 2018.</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, Planning "Shoalhaven Starches Project Approval 06_0228, Condition 26A - Flood Mitigation &amp; Management Plan" dated 18 October 2018 stating that the plan had been updated to "include Project Modifications 10, 11, 12 and 13."</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval 06_0228, Condition 26A - Flood Mitigation and Management Plan" dated 16 March 2018 noting submission of the updated Plan for MODs 7 and 8.</p> <p>Viewed letter from Ali Sevenier, Council to John Studdert, Manildra "RE: Shoalhaven Starches Flood Mitigation and Management Plan" dated 10 September 2018 providing comments on the Plan.</p>	<p>John Studdert, Manildra:</p> <p>"MOD 15 still under construction</p> <p>MOD 14 Use of buildings has commenced (no construction / operations involved in this MOD)"</p>	C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	written justification to the satisfaction of the Secretary.				
26B	The Proponent shall ensure that all new buildings and structures, additions to existing buildings and structures and all electrical installations are constructed in accordance with the relevant requirements of Chapter G9 of the Shoalhaven Development Control Plan 2014 (Shoalhaven DCP). Any portion of buildings or structures below the flood planning level prescribed in the Shoalhaven DCP must be constructed from flood compatible materials and be built to withstand flooding.	<p>Viewed "Flood Impact Assessment" prepared by WMA water Pty Ltd dated May 2016. The scope included using "up to date hydraulic modelling from Reference 2 to assess the impacts of the proposed works on flooding." The proposed works were listed as</p> <ul style="list-style-type: none"> <li>- Reduce the number of DDG Dryers from 6 to 4;</li> <li>-Slightly relocate the DDG Dryers on the site;</li> <li>-Relocate the eastern and western cooling towers;</li> <li>- Provide two additional bio-filters;</li> <li>- Construct a forklift maintenance building;</li> <li>- Relocate the MCC room;</li> <li>- Provide a container storage and preparation areas;</li> <li>- Regularise and expand an emergency coal and woodchip storage area on the environmental farm site located on the northern side of Bolong Road.</li> </ul> <p>Requested and viewed "Flood Compliance Report" for Modification to Boiler No 2, 4 and 6 which concluded that there would be no significant increase in the 1% AEP flood level as a result of the proposed works within the existing Shoalhaven Starches plant area.</p>	<p>John Studdert, Manildra:</p> <p>"Chapter G9 of the Shoalhaven DCP is addressed for each modification in the Flood Impact Assessment's.</p> <p>Structural Flood reports are issued for each project in accordance with conditions 26D, 26E, 26F, &amp; 26G"</p> <p>"Each MOD has a flood impact assessment"</p>	C	The requirements of this condition are being met.
26C	The Proponent shall ensure that all hazardous materials stored on site are stored above the 1% AEP flood level.	<p>Requested and viewed "Flood Compliance Report" for Modification to Boiler No 2, 4 and 6 which concluded that there would be no significant increase in the 1% AEP flood level as a result of the proposed works within the existing Shoalhaven Starches plant area.</p> <p>The auditor has interpreted the findings of the flood report to confirm that storages are above the 1% AEP flood level. That is, materials were assumed to be already stored above the 1% AEP flood level, and the study predicted no increase in the level. However, this</p>	<p>John Studdert, Manildra:</p> <p>"Each MOD has a flood impact assessment"</p>	C	<p>The requirements of this condition are being met.</p> <p><b>Opportunity for Improvement:</b></p> <p>Include scope for the consultant undertaking the hazardous materials storage assessment</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		should be confirmed explicitly (refer recommendation).			to confirm that all hazardous materials are stored above the 1% AEP flood level.
26D	Prior to the commencement of construction of flour mill B and the mill feed structure, the Proponent shall provide a structural engineer's report to the Secretary. The report shall demonstrate that the buildings and structures are designed from floor compatible materials and to withstand the forces of flood waters, debris and buoyancy forces up to the 0.2% Annual Exceedance Probability flood events.	<p>Viewed "Design Check Certificate of Structural Sufficiency for 0.2% AEP Flood Event" prepared by Sellick Consultants for the new Flour Mill dated 15 February 2017. The certificate confirms the structure is capable of withstanding flood waters, debris and buoyancy forces to the event level.</p> <p>Viewed email from Stephen Richardson, Cowman Stoddart Pty Ltd to Deana Burn "RE: MOD 10 - Questions" dated 22 February 2017 submitting the Flour Mill structural certificate.</p> <p>Viewed "Design Check Certificate of Structural Sufficiency for 0.2% AEP Flood Event" prepared by M.F. Haines Consulting Engineer for the Relocation Mill Feed Silo dated 27 February 2017. The certificate confirms the structure is capable of withstanding flood waters, debris and buoyancy forces to the event level.</p> <p>Viewed email from Stephen Richardson, Cowman Stoddart Pty Ltd to Deana Burn "RE: MOD 10 - Questions" dated 27 February 2017 submitting the Mill Feed Structure structural certificate.</p>		C	The requirements of this condition are being met.
26E	Within 2 months of the completion of construction of flour mill B and the mill feed structure, the Proponent shall provide a structural engineer's report to the Secretary demonstrating that the buildings and structures have been constructed from flood compatible materials and are built to withstand the forces of flood waters, debris and buoyancy forces up to the 2.0% Annual Exceedance Probability flood event. The report shall also demonstrate the structures, including	<p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 10 Flour Mill B - Condition 26E Flood Certificate" dated 14 November 2018 submitting structural certificates for flour mill and feed structure.</p> <p>Viewed "Construction Certificate of Structural Sufficiency for Flour Mill B 0.2% AEP Flood Event" prepared by Sellick Consultants for the new Flour Mill dated 23 October 2018. The certificate confirms the</p>		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	stored silos, would not become debris during flood events.	<p>structure is capable of withstanding flood waters, debris forces to the event level.</p> <p>Viewed "Construction Certificate of Structural Sufficiency for Flour Mill B 0.2% AEP Flood Event" prepared by Sellick Consultants for the Pellet Mix Silo dated 8 November 2018. The certificate confirms the structure is capable of withstanding flood waters, debris forces to the event level.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval 06_0228 MOD 10 Flour Mill B - Condition 26E Flood Certificate" dated 12 February 2019 acknowledging receipt of certificates.</p>			
26F	Prior to the commencement of construction of the modifications described in Schedule 2, Condition 2, the Proponent shall provide a structural engineer's report to the Secretary. The report shall demonstrate that the buildings and structures are designed from flood compatible materials and to withstand the forces of flood waters, debris and buoyancy forces up to the 0.2% Annual Exceedance Probability flood event.	<p>MOD 11</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval MP06_0228 MOD 11 DDGS Dryers - Condition 26F Flood Certificate" dated 5 February 2019 submitting design check for structural certificates for DDGS Dryer No.4.</p> <p>Viewed "Design Check of Structural Sufficiency" prepared by Sellick Consultants, dated 10 January 2019 confirming the works will meet flood mitigation requirements.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 11 DDGS Dryers - Condition 26F Flood Certificate" dated 12 February 2019 noting receipt of certificate.</p> <p>MOD 12</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval MP06_0228 MOD 12 Beverage Grade Ethanol -</p>	<p>John Studdert, Manildra:</p> <p>"The report is not required for MOD 14"</p>	C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Condition 26F Flood Certificate MVR Evaporators" dated 20 December 2018 submitting design check for structural certificates for MVR evaporators.</p> <p>Viewed "Flood Certificate of Structural Sufficiency" prepared by Sellick Consultants, dated 20 December 2018 confirming the works will meet flood mitigation requirements.</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12 Beverage Grade Distillery - Condition 26F Flood Certificate " dated 4 October 2017 submitting design check for structural certificates for Beverage Grade Distillery.</p> <p>Viewed "Flood Certificate of Structural Sufficiency" prepared by Sellick Consultants, dated 3 October 2017 confirming the works will meet flood mitigation requirements.</p> <p>MOD 13</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 26F Flood Certificate " dated 23 February 2018 submitting design check for structural certificates for Conversion of Boilers modification.</p> <p>Viewed "Design Check of Structural Sufficiency" prepared by Sellick Consultants, dated 18 February 2018 confirming the works will meet flood mitigation requirements.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 26F Flood Certificate " dated 27 February 2018 noting receipt of certificate.</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>MOD 15</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval MP06_0228 MOD 15 - Carbon Dioxide (CO2) Plant - Condition 26F Flood Certificate" dated 14 March 2019 submitting design check for structural certificates for DDGS Dryer No.4.</p> <p>Viewed "Design Check Certificate of Structural Sufficiency" prepared by Prostruc, dated 12 March 2019 confirming the works will meet flood mitigation requirements.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 15 - Carbon Dioxide (CO2) Plant - Condition 26F Flood Certificate" dated 28 March 2019 noting receipt of certificate.</p>			
26G	<p>Within 2 months of the completion of construction of the modifications described in Schedule 2, Condition 2, the Proponent shall provide a structural engineer's report to the Secretary demonstrating that the buildings and structures have been constructed from flood compatible materials and are built to withstand the forces of flood waters, debris and buoyancy forces up to the 0.2% Annual Exceedance Probability flood event. The report shall also demonstrate the structures and stockpiles would not become floating debris during flood events.</p>	<p>MOD 12</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12 Beverage Grade Ethanol - Condition 26G Flood Certificate - Cooling Towers &amp; substation" dated 31 January 2019 submitting flood structural engineers report for the Beverage Grade Ethanol Cooling Towers and Substation.</p> <p>Viewed "Flood Certificate of Structural Sufficiency" prepared by Sellick Consultants for concrete slab and dintel walls for substation dated 31 January 2019. The certificate confirms the structure is capable of withstanding flood waters, debris forces to the event level.</p> <p>Viewed "Flood Certificate of Structural Sufficiency" prepared by Sellick Consultants for concrete slab and plinths and footings for support of cooling towers</p>	<p>John Studdert, Manildra:</p> <p>"MOD 11 &amp; MOD are 15 still under construction</p> <p>A report for MOD 14 not required"</p>	C	<p>The requirements of this condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>dated 29 January 2019. The certificate confirms the structure is capable of withstanding flood waters, debris forces to the event level.</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE "Shoalhaven Starches Project Approval 06_0228 MOD 12 Beverage Grade Ethanol - Condition 26G Flood Certificate" dated 13 November 2018 submitting flood structural engineers report for the beverage grade ethanol distillery structure.</p> <p>Viewed "Design Check Certificate of Structural Sufficiency" prepared by Sellick Consultants for new distillery structure dated 12 October 2018. The certificate confirms the structure is capable of withstanding flood waters, debris forces to the event level.</p> <p>MOD 13</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, DPE " Shoalhaven Starches Project Approval 06_0228 MOD 13 Conversion of Boilers - Condition 26G Flood Certificate " dated 7 May 2019 submitting flood structural engineers report for the Boiler No2.</p> <p>Viewed "Flood Certificate of Structural Sufficiency" prepared by Sellick Consultants for concrete raft slab and structural steel support structure dated 30 April 2019. The certificate confirms the structure is constructed from flood compatible materials and capable of withstanding flood waters, debris and buoyancy forces to the event level.</p>			
26H	The Proponent must ensure works within 40 metres of the Shoalhaven River bank are undertaken in accordance with the Guidelines for Controlled Activities on Waterfront Land 2012.		<p>John Studdert, Manildra:</p> <p>"MOD 15 works have not occurred within 40 metres of the Shoalhaven River."</p> <p>"This condition is just for the CO2 plant"</p>	NT	The requirements of this condition have not been triggered.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
			No works in the area were viewed within 40m of the banks.		
27	<p>Prior to the commencement of construction of MOD 12, or no later than 30 September 2017, the Proponent shall submit detailed designs to Council for the following road and parking works, to be completed by the Proponent:</p> <p>a) Bolong Road works, along the site frontage west of the Dairy Farmers access, including:</p> <ul style="list-style-type: none"> <li>i) increased shoulder widths, safety measures for cyclists, raised reflective pavement markers and street lighting;</li> <li>ii) extension of the median and central barrier fence in front of the distillery access including removal of the right turn bay and installation of new signage;</li> </ul> <p>b) Dairy Farmers site access including:</p> <ul style="list-style-type: none"> <li>iii) increased shoulder widths, safety measures for cyclists, raised reflective pavement markers and street lighting;</li> <li>iv) provision of a Channelised Right (CHR) and Auxiliary Left (AUL) intersection as generally depicted in the plans for MOD 3;</li> </ul> <ul style="list-style-type: none"> <li>a) car parking at the BOC gas site; and</li> <li>b) increased capacity at the temporary car park on the northern side of Bolong Road and sealing works to the driveway.</li> </ul>	<p>Viewed email from Theo Prakash, APS to Aaron Lloyd, Council "MP06_0228 - MOD 12 works - Construction Certificate Application - N27137" dated 28 September 2017 applying for construction certificate for MOD 12 works and including road and parking works.</p> <p>Viewed "Application for Construction Certificate" prepared by APS dated 29 September 2017 and including road and parking works in description of works.</p> <p>Viewed Council approval of civil construction works in the road reserve dated 9 April 2018.</p>		C	The requirements of this condition are being met.
27A	<p>Prior to the commencement of operation of any part of MOD 12, or no later than 31 March 2018, the Proponent shall complete the road and parking</p>	<p>Viewed email from Brett Palmer, Manildra to Chris Ritchie and Deana Burn, Planning "Approval for Modification 12 Ethanol Expansion Project 06_0228 on</p>	<p>John Studdert, Manildra:</p>	NC	The works have not been carried out in the agreed time.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>works in accordance with the plans approved by Council, as described in Condition 27. The Proponent shall submit works-as-executed plans to Council one month after the completion of the works, or no later than 30 April 2018.</p> <p>Note: The works-as-executed plans shall show the completed works compared to the approved plans.</p>	<p>1 September 2017" dated 14 February 2017 with an attached request for extension for carpark and Bolong Road works, Manildra Bolong Road NSW.</p> <p>Viewed letter from Brian Hanley, Manildra to Chris Ritchie and Deana Burn, Planning "Approval for Modification 12 Ethanol Expansion Project 06_0228 on 1 September 2017" dated 30 January 2017 requesting that condition 27 A to complete the road and parking works on or no later than 31 March 2018 be extended,</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra dated 17 March 2018 and granting an extension of time for conditions 27A and 27B.</p> <p>Viewed letter from Brian Hanley, Manildra to Chris Ritchie, Planning dated 31 May 2018 requesting an additional extension.</p> <p>Viewed letter from Ming Leung, Manildra to Chris Ritchie, Planning dated 29 October 2018 advising of status of works (including some deferred due to business conditions).</p> <p>Viewed email from Brian Hanley, Manildra to Deana Burn, Planning "RE: Shoalhaven Starches Ethanol Expansion Project 06_0228 Mod 12 Lighting at Dairy Farmers Entrance" dated 20 February 2019 advising that</p> <p><i>"a contract has been let for the installation of the lighting on Bolong Road at Dairy Farmers entrance and the Contractor has received Council permission to work on the road reserve.</i></p> <p><i>Construction work will commence by the end of February 2019 for completion by mid-April 2019."</i></p> <p>Viewed email from Brian Hanley, Manildra to Deana Burn, Planning "RE: Shoalhaven Starches Ethanol Expansion Project Approval 06_0228 Mod 12 Bolong</p>	<p>"No further extension has been granted"</p>		<p><b>Recommendation:</b></p> <p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Road Roadworks" dated 20 February 2019 advising that</p> <p><i>"a contract has been awarded for the roadworks at the Dairy Farmers entrance and the Contractor is waiting for permission from Shoalhaven City Council to access the road reserve.</i></p> <p><i>Construction is due to commence in the Dairy Farmers entrance area in March 2019 for completion July 2019."</i></p>			
27B	No later than 31 May 2018, the Proponent shall provide written evidence to the Secretary of Council's acceptance of the works-as-executed plans and Council's acceptance of care and maintenance responsibilities for the section of Bolong Road from Railway Street to the Dairy Farmers site access		<p>John Studdert, Manildra:</p> <p>"No further extension has been granted"</p>	NC	<p>The plans have not been accepted in the agreed time.</p> <p><b>Recommendation:</b></p> <p>Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system.</p>
27C	<p>If the Proponent is unable to obtain Council's acceptance of the works-as-executed plans and Council's acceptance of care and maintenance responsibilities for Bolong Road as required by Condition 27B, the Secretary will appoint an independent traffic expert to review and verify the works- as-executed plans.</p> <p>If further works are required to comply with the approved plans, the Proponent will be required to complete the further works within one month of being notified by the Secretary. If no further works are required, the Secretary will determine the works-as-executed plans satisfactory and will</p>		<p>John Studdert, Manildra:</p> <p>"No further extension has been granted"</p>	NT	<p>The works-as-executed plans have not been submitted.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	notify Council. The Secretary's determination of the matter will be final and binding on the parties.				
28A	<p>Prior to construction of the packing plant, the Proponent shall:</p> <ul style="list-style-type: none"> <li>a) construct the proposed left turn only access to the packing plant site from Bolong Road in accordance with the requirements of Council;</li> <li>b) submit civil design plans for the access works referred to in sub clause a) above to Council for approval;</li> <li>c) obtain approval for the road works under Section 138 of the Roads Act 1993;</li> <li>d) consult with Shoalhaven Water and comply with the requirements of Shoalhaven Water's development application notice for works near Shoalhaven Water assets; and</li> <li>e) provide alternative access arrangements for the vehicles from the adjoining Shoalhaven Water site, and dedicate any additional land required for these alternative access arrangements to Council as a road reserve.</li> </ul>	Viewed letter from Aaron Lloyd, Council approving "Packing Facility & the Ethanol Driveway Access Upgrade" dated 9 April 2018.	<p>John Studdert, Manildra:</p> <p>"Approval for the road works has been obtained (b), however the remaining items have not been completed."</p>	NT	Construction of the packing plant has not commenced.
28B	<p>During construction of the packing plant, the Proponent shall ensure heavy vehicles enter only via the left turn access from Bolong Road. The Railway Street access is only to be used for heavy vehicles exiting the packing plant site and for light vehicle access and egress.</p> <p>Note: Construction access in and out of Bolong Road and Railway Street is allowed whilst the internal access road is being constructed.</p>		<p>John Studdert, Manildra:</p> <p>"Construction has not commenced"</p>	NT	Construction of the packing plant has not commenced.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
28C	<p>The Proponent shall:</p> <ul style="list-style-type: none"> <li>a) upgrade Railway Street adjacent and to the south of the packing plant site access, to accommodate the turning paths of the largest vehicles accessing the packing plant (addressing road widening and strengthening requirements for turns in all permitted directions);</li> <li>b) submit civil design plans for the road upgrade works referred to in sub clause a) above to Council for approval;</li> <li>c) obtain approval for the road works under Section 138 of the Roads Act 1993; and</li> <li>d) complete the approved road upgrade prior to operation of the packing plant.</li> </ul>	<p>Viewed letter from Aaron Lloyd, Council approving "Civil Construction Works / Road Reserve" dated 9 June 2016.</p>	<p>John Studdert, Manildra: "Approval for the road works has been obtained (b), however the remaining items have not been completed."</p>	NT	<p>Construction of the packing plant has not commenced.</p>
29	<p>Prior to the commencement of construction on the proposed packing plant site and the flour mill B and the mill feed structure, the Proponent shall prepare a Construction Traffic Management Plan to manage traffic movements during construction. The plan shall be prepared in consultation with Council and submitted to the Secretary prior to the commencement of construction.</p>	<p>Viewed email from John Studdert, Manildra to Simon Heung, Council "Shoalhaven Starches Project Approval 06_0228, Condition 29 - Construction Traffic Management Plan - Packing Plant" dated 9 May 2016 submitting TMP for the Packing Plant.</p> <p>Viewed "Shoalhaven Starches, Bomaderry Packing Plant Construction Traffic Management Plan" prepared by ARC Traffic + Transport, dated May 2016.</p> <p>Viewed email from Simon Heung, Council to Mike Richardson, Manildra "RE: Shoalhaven Starches Project Approval 06_0228, Condition 29 - Construction Traffic Management Plan - Packing Plant" dated 25 May 2016 and providing comments on the TMP.</p> <p>Viewed email from Mike Richardson, Manildra to Simon Heung, Council "RE: Shoalhaven Starches Project Approval 06_0228, Condition 29 - Construction</p>	<p>John Studdert, Manildra: "Mill Feed structure is shown in Fig. 2.1.1 (highlighted in red near Creek)"</p>	C	<p>The requirements of this condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Traffic Management Plan - Packing Plant" dated 27 June 2016 and responding to the comments.</p> <p>Viewed email from John Studdert, Manildra to Deana Burn, Planning "Shoalhaven Starches Project Approval MP06_0228 MOD 9 - Packing Plant - Condition 29 Construction Traffic Management Plan" dated 2 March 2018, submitting the TMP</p> <p>Viewed email from Wendy Reader, Manildra to Deana Burn, Planning "Shoalhaven Starches Project Approval MP06_0228 MOD 9 - Packing Plant - Condition 29 Construction Traffic Management Plan" dated 20 February 2019, noting the packing plant project is on hold.</p> <p>Viewed "Shoalhaven Starches, Bomaderry Modification 10 (Flour Mill B) Construction Traffic Management Plan" prepared by ARC Traffic + Transport, dated June 2017. The Plan states it was prepared in consultation with Mr Mark Wolstenholme, Council's Traffic Engineer.</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, Planning "Shoalhaven Starches Project Approval 06_0228 MOD 10 (Flour Mill B), Condition 29 - Construction Traffic Management Plan" dated 6 June 2017, submitting the TMP</p>			
29A	The Proponent shall prepare a dilapidation report for the section of Railway Street from the access point at the packing plant to the intersection with Bolong Road. The report shall be submitted to Council prior to the commencement of construction of the packing plant, as described in MOD 9.	<p>Viewed "Dilapidation Report: Railway Street Bomaderry NSW 2541 Exit from LOT 16, DP 1121337 to Intersection with Bolong Road." prepared by Allen Price and Scarratts, dated 6 March 2018.</p> <p>Viewed email from John Studdert, Manildra to Simon Heung, Council "Shoalhaven Starches Project Approval MP06_0228 MOD 9 Packing Plant - Condition 29A - Dilapidation Report " dated 14 March 2018 submitting the report.</p>	<p>John Studdert, Manildra:</p> <p>"The MOD 9 project is on hold (construction has not commenced), however we will follow-up with Council once the project recommences."</p>	C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Viewed email from Aaron Lloyd "Shoalhaven Starches Project Approval MP06_0228 MOD 9 Packing Plant - Condition 29A - Dilapidation Report " dated 26 March 2018 stating the plan did not meet Council requirements.</p> <p>Viewed "Dilapidation Report: Railway Street Bomaderry" prepared by Allen Price and Scarratts, dated 4 April 2018 and updated to address Council comments. A plan was included showing chainages that match the referenced chainages in the summary of observed damages.</p> <p>Viewed email from Brett Palmer, Manildra to Aaron Lloyd, Council "Dilapidation Report" dated 26 April 2018 submitting revised report.</p>			
30	The Proponent shall provide formal pedestrian paths from the car parks at the Dairy Farmers site and the BOC gas site, to connect to existing pedestrian paths on and adjacent the site and to both pedestrian refuge crossings on Bolong Road. The design of these works shall be included in the roadworks required under Condition 27.		<p>Viewed plans whilst on site for paths from Dairy Farmers site.</p> <p>John Studdert, Manildra:            "It is at the entrance to the ethanol plant section of site and is called the dairy farmers site as it links up to the ex-dairy farmers site"</p>	C	The requirements of this condition are being met.
31	The Proponent shall provide adequate parking on site to ensure vehicles associated with the site do not park on the public road network at any time. Parking spaces shall be delineated using either paint or plastic disc markers to ensure adequate capacity is provided within the formal parking areas on the site, including the temporary car park on the northern side of Bolong Road.		Viewed a range of parking spaces, some with disc markers, and some painted to delineate spaces.	C	<p>Parking viewed on site was considered adequate and appropriately delineated.</p> <p>In some cases, where parking is reported to be temporary, plastic disc markers were not installed, however in these locations parking was</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
					not beyond capacity and in no areas has it spilled to the local road network.
32	The Proponent shall ensure that vehicles associated with the project do not park or queue on the public road network at any time.		No vehicles observed queuing on the public road network.	C	The requirements of this condition are being met.
32A	Prior to the commencement of construction of MOD 15, the Proponent must delineate truck parking areas on the Dairy Farmers site to ensure adequate space is provided for trucks accessing the carbon dioxide plant.	Viewed "Meat Works site CO2 Lease. Truck Parking Plan" dated 30 November 2017.	Viewed evidence of delineated parking areas.	C	The requirements of this condition are being met.
33	The Proponent shall ensure that heavy vehicles travelling to and from the site between 8pm and 7am only use Bolong Road and Princes Highway.  The Proponent must ensure the Paper Mill site is used during day time periods only, as required by Condition 11.  Note: If the Proponent intends to regularly access the Paper Mill site during evening or night time periods, the Proponent shall evaluate and upgrade the street lighting at the access points, to meet Australian Standards and the requirements of Council.	Viewed "Transport Operator Induction", dated 05/11/13, which includes a map highlighting the routes which can and cannot be taken by heavy vehicles between 8pm and 7am.  Viewed printout of Transport Induction records dated 1 May 2019 showing the drivers who had completed the induction and their induction expiry dates.  No complaints were recorded regarding this condition.	John Studdert, Manildra:  "The process is as follows:  - 4 weeks prior to the induction running out, the contractor is automatically emailed and sent a text to complete the induction  - If they do not complete the induction in time, their site access card (& forklift access) becomes inactive until they complete the induction."	C	Drivers are informed of the requirement and no complaints have been received to indicate it is not being complied with.
34	The Proponent shall manage the rail level crossings at Bolong Road and Railway Street in accordance with the requirements of the Office of the National Rail Safety Regulator and any Safety Interface Agreement with Council.	Viewed Safety Interface Agreement, dated 30 May 2012.  Viewed letter from Chris Ritchie, Planning to John Studdert, Manildra, dated 16 March 2017, "Shoalhaven Starches Ethanol Expansion Project 06_0228" noting conditions 34 and 35 have been satisfied, but that upgrades to the level crossing are required prior to operation of the Packing Plant (MOD 9).	Viewed pedestrian safety controls identified in risk assessment implemented on site.	C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
35	Prior to operation of the packing plant, the Proponent shall upgrade the Railway Street level crossing in accordance with the requirements of Council. The works shall include delineation improvements, including kerb and guttering and associated pavement works, on the approaches to the crossing and signs and line works in accordance with AS1742.2 Traffic Control Devices for General Use and AS 1742.7 Railway Crossings.		John Studdert, Manildra: "The Packing Plant is not operational".	NT	The packing plant is not operational.
35A	The Proponent shall ensure that the temporary car park and its access described in MOD 6: a. deleted; b. is used for light vehicles only, with the exception of heavy vehicles used to construct the temporary car park; c. is removed following the completion of construction of MODs 11 or 12, whichever is later; d. is not used for the storage of plant, equipment or materials at any time.		Only viewed light vehicles in the carpark.  No items were viewed in storage in the carpark.	C	The requirements of this condition are being met.
35B	The Proponent shall ensure that access to Shoalhaven Water's pumping station is maintained at all times.		Viewed accessible pumping station on site	C	The requirements of this condition are being met.
35C	Prior to the commencement of construction of the modifications described in Schedule 2, Condition 2, the Proponent shall submit a construction traffic management plan for the modification to Council.  Note: If a modification does not require a construction traffic management plan, the Proponent shall provide written justification to the satisfaction of Council.	MOD 13 Viewed email from Aaron Lloyd, Development Engineering Officer Shoalhaven City Council, dated 26 March 2018, which states that the Construction Traffic Management Plan appears to meet the requirements of the approval for the Conversion of the Boilers.  MOD 11 Viewed email from John Studdert, Manildra, to Aaron Lloyd dated 28 December 2018, containing Construction Traffic Management Plan	John Studdert, Manildra: "A TMP is not required for any other MOD"  The auditor requested and received confirmation of the following:  - confirm this control from MOD 11 is in place: All access to the Modification 11 infrastructure sites for construction trucks will be provided by the existing	C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>DDGS Dryers Project submission (MOD11).</p> <p>Viewed email from Aaron Lloyd to John Studdert, dated 7 January 2019, stating there are no issues with the submission.</p> <p>MOD 15</p> <p>Viewed email from John Studdert to Aaron Lloyd, dated 7 January 2019, containing Shoalhaven Starches Construction Traffic Management Plan – MOD 15 Carbon Dioxide Plant.</p> <p>Viewed email from Aaron Lloyd to John Studdert, dated 30 January 2019, which states that the CTMP appears to meet the requirements of the development approval.</p>	<p>Western Driveway and then existing on-site roads which provide appropriate width and turning paths for construction trucks.</p> <p>- confirm this control from MOD13 is in place: All parking for construction staff and construction trucks must be contained within an appropriately secure on-site environment so as not to impact or be impacted by existing SS Site operations; or on the off-site traffic environment</p> <p>- confirm this control from MOD15 is in place: All construction truck trips would be generated to/from the west using existing truck routes.</p>		
36	At least 1 month prior to the commencement of construction of the Project as modified (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 Proponent shall prepare and submit for the approval of the Secretary the studies set out under subsections a) to d) (the pre-construction studies):				
	a. A Fire Safety Study for the Project as modified. This study shall be prepared in accordance with 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 Fire Safety Study shall also be prepared and	<p>MOD 7</p> <p>Viewed email from John Studdert, Manildra, to Chris Ritchie, Planning dated 20 June 2019 "Shoalhaven Starches Project Approval 06_0228 MOD 7 Re-location of Starch Dryer No.5, Condition 36a - Fire Safety Study", submitting MOD 7 Sitewide FSS.</p>		C	<p>The requirements of this condition are being met.</p> <p>The auditor notes that whilst the FFS has been prepared and submitted for all modifications, approval from Fire</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	implemented to the satisfaction of Fire and Rescue NSW;	<p>Viewed letter "FSS and HAZOP MOD 7", from Chris Ritchie, Planning to Brian Hanley, Manildra dated 22 September 2016, which lists requirements for approval from the Secretary.</p> <p>Viewed email from John Studdert, Manildra to the Fire Safety Assessment Unit, dated 20 June 2016, submitting Shoalhaven Starches Starch Dryer Fire Safety Study</p> <p>Viewed email from John Studdert, Manildra, to Anthony Martin, dated 6 July 2017, asking for a response to the Starch Dryer Fire Safety Study (FSS), dated 20 June 2016, which was submitted to FRNSW on the 21 June 2016.</p> <p>Viewed the letter from Mark Reilly, Fire Safety Assessment Unit, to Ming Leung, Manildra dated 21 July 2017 approving the FSS.</p> <p>MOD 8</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, Planning dated 21 April 2016, "Shoalhaven Starches Project Approval 06_0228 MOD 8 - Alterations to Existing Flour Mill - Condition 36a Fire Safety Study" submitting the MOD 8 FSS.</p> <p>Viewed email from Fire Safety Branch to John Studdert, Manildra "RE: HPRM: Shoalhaven Starches Fire Safety Study Existing Flour Mill Upgrade 22 March 2016" dated 22 April 2016 acknowledging receipt of FSS.</p> <p>No approval received and FSS ultimately withdrawn. Viewed email from John Studdert, Manildra to Fire Safety NSW "RE: Shoalhaven Starches Site Wide Fire Safety Study, Beverage Grade Distillery (MOD 12)" dated 1 February 2018 withdrawing FSSs:</p> <ul style="list-style-type: none"> <li>- BFS16/750,</li> </ul>			<p>and Rescue NSW was not obtained for MOD 8, 10 and 12.</p> <p>These were ultimately withdrawn in favour of agreeing a streamlined approach to approvals with Fire and Rescue NSW.</p> <p>As the withdrawn FSSs have been prepared in accordance with the HIPAP Guidelines, and submitted in the same manner as the previously approved studies, and the outstanding requirement for this condition is Fire and Rescue NSW approval, the auditor will consider this condition complied with the following recommendation required to be actioned as high priority.</p> <p><b>Opportunity for Improvement:</b></p> <p>In consultation with Planning, develop a new process for obtaining Fire and</p>

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		<ul style="list-style-type: none"> <li>- BFS16/742</li> <li>- BFS16/1314</li> </ul> <p>MOD 10.</p> <p>Viewed email from John Studdert, Manildra, to Chris Ritchie, Planning "Shoalhaven Starches Project Approval 06_0228, condition 36a, Site Wide Fire Safety Study (MOD 10 New Flour Mill B)", submitting the MOD 10 FSS.</p> <p>Viewed letter from Jim Green, Risk and Fire Safety Engineer, to Ming Leung, Manildra, "Assessment of Fire Safety Study for the New Flour Mill B", dated 18 July 2017, withholding FRNSW approval.</p> <p>Viewed email from John Studdert, Manildra to Fire Safety Branch "RE: Letter Out - Assessment of Fire Safety Study - New Flour Mill B – Shoalhaven Starches – 160 Bolong Road Bomaderry NSW" dated 8 August 2017, responding to the FRNSW comments.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (MOD 10) FSS" dated 20 December 2017 approving the FSS subject to FRNSW requirements.</p> <p>MOD 11.</p> <p>Viewed email from John Studdert, Manildra, to Deana Burn, Planning "Shoalhaven Starches Project Approval 06_0228 ", submitting the MOD 11/15 FSS.</p> <p>Viewed letter from Chris Ritchie, Planning to John Studdert, Planning dated 19 March 2019 approving the FSS for MODs 11, 12, 13 and 15.</p> <p>Viewed letter from John Hawes, FRNSW to John Studdert, Manildra "Fire Safety Study Determination" dated 26 February 2019 approving the FSS for MOD 11 and 15 only.</p>			<p>Rescue NSW approval for Fire Safety Studies that is timely and meets the Departmental objectives for the requirements of this condition.</p>

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		<p>MOD 12</p> <p>Viewed email from John Studdert, Manildra, to Chris Ritchie, Planning "Shoalhaven Starches Project Approval 06_0228 MOD 12, Condition 36a, Site Fire Safety Study, Beverage Grade Distillery", dated 30 November 2017 submitting the MOD 12 FSS</p> <p>Viewed letter from Chris Ritchie, Planning to John Studdert, Planning dated 19 March 2019 approving the FSS for MODs 11, 12, 13 and 15.</p> <p>Viewed email from John Studdert, Manildra, to Fire &amp; Rescue NSW "Shoalhaven Starches Site Wide Fire Safety Study, Beverage Grade Distillery (MOD 12)", dated 27 November 2017 submitting the MOD 12 FSS.</p> <p>MOD 13</p> <p>Viewed email from John Studdert, Manildra, to Chris Ritchie, Planning "Shoalhaven Starches Project Approval MP06_0228 MOD 13 - Conversion of Boilers - Condition 36a - Fire Safety Study", dated 12 February 2018 submitting the MOD 13 FSS</p> <p>Viewed letter from Chris Ritchie, Planning to John Studdert, Planning dated 19 March 2019 approving the FSS for MODs 11, 12, 13 and 15.</p> <p>MOD 15.</p> <p>Viewed email from John Studdert, Manildra, to Deana Burn, Planning "Shoalhaven Starches Project Approval 06_0228 ", submitting the MOD 11/15 FSS.</p> <p>Viewed letter from Chris Ritchie, Planning to John Studdert, Planning approving the FSS for MODs 11, 12, 13 and 15.</p> <p>Viewed letter from John Hawes, FRNSW to John Studdert, Manildra "Fire Safety Study Determination" dated 26 February 2019 approving the FSS for MOD 11 and 15 only.</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>General:</p> <p>Viewed email from John Studdert, Manildra to Cameron Wheatley, Fire &amp; Rescue NSW "RE: Shoalhaven Starches Site Wide Fire Safety Study, Beverage Grade Distillery (MOD 12)" dated 19 December 2017. The email included an attachment outlining the outstanding FFSs for approval. This included MOD 8, 10 and 12.</p> <p>Viewed email from John Studdert, Manildra to Cameron Wheatley, Fire &amp; Rescue NSW "RE: Shoalhaven Starches Site Wide Fire Safety Study, Beverage Grade Distillery (MOD 12)" dated 1 February 2018. The email included a request to:</p> <p style="padding-left: 40px;"><i>"Please withdraw the following Manildra Group Shoalhaven Starches Fire Safety Study's, FRNSW File Ref No:</i></p> <ul style="list-style-type: none"> <li>- BFS16/750,</li> <li>- BFS16/742</li> <li>- BFS16/1314."</li> </ul>	<p>John Studdert, Manildra:</p> <p>"We are discussing with Fire and Rescue NSW better streamlining of FSS approvals due to the large number of project modifications, and the time taken to receive FRNSW approvals."</p>		
	<p>b. A Hazard and Operability Study for the Project and each modification, prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8 - HAZOP Guidelines, chaired by an independent qualified person approved by the Secretary. This study shall include a program for the implementation of all recommendations made during the study; and if the Proponent intends to defer the implementation of certain recommendations, then justification shall be provided for the proposed deferral;</p>	<p>MOD 7</p> <p>Viewed "HAZOP STUDY REPORT, STARCH DRYER, SHOALHAVEN STARCHES (MANILDRA), BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 5 August 2016.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_0228 MOD 7 Starch Dryer) Hazard Studies" dated 22 September 2016 stating that the Study satisfied the requirements for this condition subject to providing a program for the recommendations arising from the Study and completing the actions in a timely manner.</p>		C	The requirements of this condition are being met.

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		<p>MOD 8</p> <p>Viewed "HAZOP STUDY REPORT, ALTERATIONS TO EXISTING FLOUR MILL, SHOALHAVEN STARCHES (MANILDRA), BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 7 March 2016.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_0228 MOD 8 Alterations to Flour Mill) Hazard and Operability Study" dated 31 May 2016 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 10</p> <p>Viewed "HAZOP STUDY REPORT, NEW FLOUR MILL, SHOALHAVEN STARCHES (MANILDRA), BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 17 May 2017.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 10 Flour Mill B Hazard and Operability Study" dated 8 August 2017 stating that the Study satisfied the requirements for this condition.</p> <p>Mod 11</p> <p>Viewed "HAZOP STUDY REPORT, CONSENT NUMBER: MP 06_0228 MOD 11, DDG DRYER 4 PROJECT, SHOALHAVEN STARCHES (MANILDRA), BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 15 April 2019.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 11 DDG No. 4 Hazard and Operability Study" dated 15 May 2019 stating that the Study satisfied the requirements for this condition.</p>			

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		<p>MOD 12</p> <p>Viewed "HAZOP STUDY REPORT, ETHANOL DISTILLERY MODIFICATION, SHOALHAVEN STARCHES (MANILDRA), BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 13 September 2017.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 12 Beverage Grade Ethanol Hazard Studies" dated 14 June 2018 stating that the Study satisfied the requirements for this condition subject to completing all actions in the Study in a timely manner and providing confirmation of specific items in the Safety Management System.</p> <p>MOD 13</p> <p>Viewed "HAZOP STUDY REPORT, MODIFICATIONS TO BOILERS 2, 4 AND 6, MP06_0228 MOD 13 – CONVERSION OF BOILERS, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 10 February 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 13 Conversion of Boilers Hazard Studies" dated 21 February 2018 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 15</p> <p>Viewed "HAZOP STUDY REPORT, CARBON DIOXIDE PLANT, SUPAGAS, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 22 November 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 15 Carbon Dioxide Plant Hazard and Operability Study" dated 19</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		December 2018 stating that the Study satisfied the requirements for this condition.			
	<p>c. A Final Hazard Analysis for the Project as modified, prepared in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 6 - Guidelines for Hazard Analysis. The FHA shall:</p> <ul style="list-style-type: none"> <li>• report on the implementation of the recommendations of the Preliminary Hazard Analysis;</li> <li>• re-evaluate and reconfirm the relevant data and assumptions from the Preliminary Hazard Analysis; and</li> <li>• re-evaluate and reconfirm all control measures for prevention and mitigation of incidents; and</li> <li>• provide details of the mechanical or instrumented safety device to be fitted on the critical equipment described in MOD 12 including but not limited to, types, sizing and design standards;</li> <li>• demonstrate that the safety device is appropriately sized for the worst-case scenario; and</li> <li>• evaluate and confirm automatic isolation, both local and remote for carbon dioxide iso- container loadout.</li> </ul>	<p>MOD 7</p> <p>Viewed letter from Dean Shrewing, Manildra to Chris Ritchie, Planning “Assessment for the Starch Dryer MOD 7 Final Hazard Analysis” dated 1 November 2016 which states that the requirements of the condition have been met in the PHA.</p> <p>Viewed letter from Sally Munk, Planning to Brian Hanley, Manildra “Shoalhaven Starches Ethanol Expansion Project (06_0228 MOD 7 Starch Dryer) Hazard Studies” dated 18 January 2017 stating that the requirements for this condition have been met.</p> <p>Mod 8</p> <p>Viewed “FINAL HAZARD ANALYSIS, ALTERATIONS TO EXISTING FLOUR MILL, SHOALHAVEN STARCHES, BOMADERRY, NSW” prepared by Pinnacle Risk Management, dated 7 March 2016.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra “Shoalhaven Starches Ethanol Expansion Project (06_0228 MOD 8 Flour Mill) Hazard Studies” dated 10 May 2016 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 10</p> <p>Viewed “FINAL HAZARD ANALYSIS, PROPOSED FLOUR MILL B, SHOALHAVEN STARCHES, BOMADERRY, NSW” prepared by Pinnacle Risk Management, dated 14 September 2017.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra “Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 10 Flour Mill Final Hazard Analysis” dated 2 November 2017 stating that the Study satisfied the requirements for this condition.</p>		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>MOD 11</p> <p>Viewed "FINAL HAZARD ANALYSIS, CONSENT NUMBER: MP 06_0228 MOD 11, DDG DRYER 4 PROJECT, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 19 April 2019.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 11 DDG Dryer No. 4 Final Hazard Analysis" dated 28 May 2019 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 12</p> <p>Viewed "FINAL HAZARD ANALYSIS, ETHANOL DISTILLERY MODIFICATION, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 19 November 2017.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 12 Beverage Grade Ethanol - Hazard Studies" dated 14 June 2018 stating that the Study satisfied the requirements for this condition subject to timely implementation of all safeguards reported in the Study and a minimum of SIL 1 rated control function on Tank 8.</p> <p>Viewed evidence of implementation of two of the safeguards included in the study:</p> <ul style="list-style-type: none"> <li>- Authority to work permits for hot works</li> <li>- Ethanol Storage Tank schematic showing Two level instruments installed on each tank to prevent overfill incl. independent high-level trip.</li> </ul> <p>MOD 13</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Viewed "SHOALHAVEN STARCHES, FINAL HAZARD ANALYSIS, CONSENT NUMBER: MP 06_0228 MOD 13 – CONVERSION OF BOILERS, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 10 February 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 13 Boiler Conversion Final Hazard Analysis" dated 26 February 2018 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 15</p> <p>Viewed letter from Dean Shewing, Pinnacle Risk Management to Deana Burn, Planning "Assessment for the Supagas Carbon Dioxide Plant Final Hazard Analysis (FHA)" dated 27 November 2018 which states that the requirements of the condition have been met in the PHA and HAZOP studies.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 15 Carbon Dioxide Plant Final Hazard Analysis" dated 12 February 2019 stating that the requirements for this condition have been met subject to implementing all safeguards reported in the PHA.</p>			
	<p>d. A Construction Safety Study for the Project and each modification, consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 7 – Construction Safety Study Guidelines.</p> <p>Note: If a modification does not require an update of the studies listed in Conditions a) to d) above, the Proponent</p>	<p>MOD 7</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, STARCH DRYER, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 27 October 2015.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 Mod 7 Starch Dryer) Hazard Studies" dated 21 June 2016 notes the studies</p>		C	The requirements of this condition are being met.

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	shall provide written justification to the satisfaction of the Secretary.	<p>required prior to commissioning of the starch dryer. A CSS is not required.</p> <p>MOD 8</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, ALTERATIONS TO EXISTING FLOUR MILL, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 6 March 2016.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_0228 MOD 8 Flour Mill) Hazard Studies" dated 10 May 2016 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 10</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, NEW FLOUR MILL, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 7 August 2017.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 10 Flour Mill B Construction Safety Study" dated 15 August 2017 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 11</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, CONSENT NUMBER: MP 06_0228 MOD 11, DDG DRYER 4 PROJECT, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 14 January 2019.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 11 DDG Dryers Construction Safety Study" dated 19 March 2019</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>stating that the Study satisfied the requirements for this condition.</p> <p>MOD 12</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, BEVERAGE GRADE DISTILLERY PROJECT SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 23 August 2017 and "CONSTRUCTION SAFETY STUDY REPORT, CONSENT NUMBER: MP 06_0228 MOD 12, EVAPORATORS, SHOALHAVEN STARCHES, BOMADERRY, NSW." prepared by Pinnacle Risk Management, dated 22 January 2019.</p> <p>Viewed letters from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 12 Beverage Grade Ethanol Hazard Studies" dated 19 October 2017 and 6 March 2019 stating that the Studies satisfied the requirements for this condition.</p> <p>MOD 13</p> <p>Viewed "CONSTRUCTION SAFETY STUDY REPORT, MODIFICATIONS TO BOILERS 2, 4 AND 6, SHOALHAVEN STARCHES, BOMADERRY, NSW" prepared by Pinnacle Risk Management, dated 6 February 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 13 Conversion of Boilers Hazard Studies" dated 21 February 2018 stating that the Study satisfied the requirements for this condition.</p> <p>MOD 15</p> <p>Viewed "CONSTRUCTION SAFETY STUDY FOR THE CARBON DIOXIDE (CO2) PLANT IN BOMADERRY, NSW"</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>prepared by Planager Risk Management Consulting, dated 29 November 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_0228 MOD 15 Supagas CO2 Plant Construction Safety Study" dated 31 January 2019 stating that the Study satisfied the requirements for this condition.</p>			
37	<p>The Proponent shall develop and implement the plans and systems set out under subsections a) to c), no later than 2 months prior to the commencement of commissioning of the Project and each modification to the Project, or within such further period as the secretary may agree. The Proponent 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.</p>			C	The plans are being developed within the required timeframes.
	<p>a. Transport of Hazardous Materials – detailing arrangements for the transport of hazardous materials including routes to be used by vehicles carrying hazardous materials to or from the site. The routes shall be consistent with the Department of Planning’s Hazardous Industry Planning Advisory Paper No.11 Route Selection. Suitable routes identified in the study shall be used except where departures are necessary for local deliveries or emergencies.</p>	<p>MOD 7</p> <p>Viewed letter from Aaron Ticehurst, Manildra to Chris Ritchie, Planning "Pre-commissioning Requirements - MP 06_0228 MOD 7 Relocation of Starch Dryer No.5" dated 24 November 2016 requesting an exemption for the updating of the Transport of Hazardous Materials Plan and Safety Management System as required under this condition.</p> <p>Viewed letter from Sally Munk, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 7 Starch Dryer) Hazard Studies" dated 18 January 2017 stating that no updates are required.</p> <p>MOD 8</p> <p>Viewed letter from Mark Marion, Manildra to Chris Ritchie, Planning "Pre-commissioning Requirements - MP 06_0228 MOD 8 Alterations to Flour Mill" dated</p>		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>22 June 2016 requesting an exemption for the updating of the Transport of Hazardous Materials Plan, Emergency Plan and Safety Management System as required under this condition.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 8 Flour Mill) Hazard Studies" dated 23 June 2016 stating that no updates are required.</p> <p>MOD 10, 12, 13 and 14</p> <p>Viewed "160 BOLONG ROAD, BOMADERRY, NSW 2541 - TRANSPORT OF HAZARDOUS MATERIALS PLAN Manildra Group – Shoalhaven Starches Pty Ltd" prepared by Norman, Disney &amp; Young, dated 10 August 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project 06_2208 MOD 14 Transport of Hazardous Materials Plan" dated 23 August 2018 stating that the Plan satisfied the requirements for this condition.</p>			
	<p>b. Emergency Plan – updated to include the Project as modified and maintained for the life of the Project. The plan shall include detailed procedures for the safety of all people including consideration of the safety of all people outside of the facility who may be at risk from the Project. The plan shall be consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 1- Industry Emergency Planning Guidelines;</p>	<p>MOD 7</p> <p>Viewed "EMERGENCY PLAN MANILDRA GROUP SHOALHAVEN STARCHES BOLONG ROAD BOMADERRY NSW" prepared by Manildra Group, dated 18 October 2016.</p> <p>Viewed letter from Sally Munk, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 7 Starch Dryer) Hazard Studies" dated 18 January 2017 stating that the Department approves the Plan.</p> <p>MOD 8</p>		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>Viewed letter from Mark Marion, Manildra to Chris Ritchie, Planning "Pre-commissioning Requirements - MP 06_0228 MOD 8 Alterations to Flour Mill" dated 22 June 2016 requesting an exemption for the updating of the Transport of Hazardous Materials Plan, Emergency Plan and Safety Management System as required under this condition.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 8 Flour Mill) Hazard Studies" dated 23 June 2016 stating that no updates are required.</p> <p>MOD 10, 12, 13</p> <p>Viewed "EMERGENCY PLAN MANILDRA GROUP SHOALHAVEN STARCHES BOLONG ROAD BOMADERRY NSW" prepared by Manildra Group, dated 14 February 2019.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208) Emergency Plan" dated 21 February 2019 stating the Plan satisfies the requirements of this condition.</p>			
	<p>c. Safety Management System updated to include the Project as modified and maintained for the life of the Project. The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. Records must be kept on-site and must be available for inspection by the Secretary upon request. The Safety Management System shall be prepared in accordance with the Department of Planning's Hazardous Industry Planning Advisory</p>	<p>MOD 7</p> <p>Viewed letter from Aaron Ticehurst, Manildra to Chris Ritchie, Planning "Pre-commissioning Requirements - MP 06_0228 MOD 7 Relocation of Starch Dryer No.5" dated 24 November 2016 requesting an exemption for the updating of the Transport of Hazardous Materials Plan and Safety Management System as required under this condition.</p> <p>Viewed letter from Sally Munk, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 7 Starch Dryer)</p>		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>Paper No.9 - Safety Management.</p> <p>Note: If a modification does not require an update of the studies listed in Conditions a) and c) above, the Proponent shall provide written justification to the satisfaction of the Secretary.</p>	<p>Hazard Studies" dated 18 January 2017 stating that no updates are required.</p> <p>MOD 8</p> <p>Viewed letter from Mark Marion, Manildra to Chris Ritchie, Planning "Pre-commissioning Requirements - MP 06_0228 MOD 8 Alterations to Flour Mill" dated 22 June 2016 requesting an exemption for the updating of the Transport of Hazardous Materials Plan, Emergency Plan and Safety Management System as required under this condition.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 8 Flour Mill) Hazard Studies" dated 23 June 2016 stating that no updates are required.</p> <p>MOD</p> <p>Viewed "Shoalhaven Starches Safety Management System" prepared by Manildra Group, dated 5 September 2018.</p> <p>Viewed letter from Chris Ritchie, Planning to Brian Hanley, Manildra "Shoalhaven Starches Ethanol Expansion Project (06_2208 MOD 8 Flour Mill) Safety Management System" dated 29 January 2019 stating that the SMS satisfied the requirements of this condition.</p>			
37A	<p>One month prior the commencement of commissioning, or as otherwise agreed with the Secretary, a testing program must be undertaken in accordance with the International Standard (IEC 61508) Functional Safety of Electrical/Electronic/Programmable Electronic Safety-related Systems. The testing shall verify that all safety related equipment and controls in the existing coal handling equipment for the boilers are fit for re-use. A report of the findings of the</p>	<p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 13 Conversion of Boilers - Condition 37A Boiler Testing" dated 12 February 2019 stating that the Department has "no further requirements in relation to Condition 37A".</p>		C	<p>The requirements of this condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	testing program must be provided to the Secretary describing the scope, methodology and testing results. This equipment must include the safety instrumented controls and any mechanical protective systems.				
38	<p>By the end of October 2016 and every three years thereafter, or at such intervals as the Secretary may agree, the Proponent shall carry out a comprehensive Hazard Audit of the Project as modified and the Site, and within one month of each audit submit a report to the Secretary.</p> <p>a. the audits shall be carried out at the Proponent's expense by a qualified person or team, independent of the Project, approved by the Secretary prior to commencement of each audit. Hazard audits shall be consistent with the Department of Planning's Hazardous Industry Planning Advisory Paper No. 5 - Hazard Audit Guidelines;</p> <p>b. the audit report must be accompanied by a program for the implementation of all recommendations made in the audit report, as well as any outstanding recommendations from previous hazard audit reports (if applicable). If the Proponent intends to defer the implementation of a recommendation, reasons must be documented.</p>	<p>Viewed letter from Chris Ritchie, Planning to John Studdert, Manildra "Shoalhaven Starches Ethanol Expansion Project (02_0228) Hazard Audit" dated 21 July 2016 stating approval for the audit to be carried out in December 2016 with the report to be provided by the end of February 2017.</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, Planning dated 20 July 2016 requesting for Karin Nilsson, Planager to conduct the audit.</p> <p>Viewed letter from Chris Ritchie, Planning to John Studdert, Manildra "Shoalhaven Starches Ethanol Expansion Project (02_0228) Hazard Audit" dated 21 July 2016 stating approval for Karin Nilsson to conduct the audit.</p> <p>Viewed Appendix A - Hazard Audit Program in "REPORT OF THE 2016 HAZARD AUDIT OF MANILDRA GROUP SHOALHAVEN STARCHES PTY LTD'S FACILITY AT BOMADERRY, NSW" prepared by Planager Risk Management Consulting, dated 5 April 2017.</p> <p>Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Hazard Audit Update" dated 16 May 2019 noting completion of a range of hazard audit actions and stating: <i>"There is no longer any need to provide the Department with quarterly management action plans".</i></p>		C	The requirements of this condition are being met.
39	The Proponent shall comply with all reasonable requirements of the Secretary in respect of the implementation of any measures arising from the hazard studies submitted in respect of conditions	Viewed "Recommendations – 2016 Hazard Audit Report Quarterly Report of Progress / Actions Referencing Table E1 – Management Action Plan"		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	36 to 38 inclusive, within such time as the Secretary may agree.	prepared by Manildra Group dated 28 December 2017 which shows closeout of all actions.  Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Hazard Audit Update" dated 16 May 2019 noting completion of a range of hazard audit actions and stating:  <i>"There is no longer any need to provide the Department with quarterly management action plans"</i> .			
40	Except as expressly permitted by an EPL, the Proponent shall: a) not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing or disposal; and b) ensure that all waste generated on the site is classified and managed in accordance with the DECC's Environmental Guidelines: Waste Classification Guideline.	Viewed Waste Management Plan which includes requirement for "classifying the waste in accordance with the NSW EPA Waste Classification Guidelines". Appendix A provides classifications and disposal methods for all anticipated wastes.	John Studdert, Manildra:  "No waste material has been used on site".  Verified implementation evidence on site:  - Waste shall be contained in appropriate, covered and labelled containers, and  - maintained in a clean and tidy condition.	C	Waste is being appropriately managed on site.
40A	The Proponent shall ensure that the use of any waste material on the site, is in accordance with the requirements of a Resource Recovery Order and Exemption issued under the Protection of the Environment Operations (Waste) Regulation 2014.		John Studdert, Manildra:  "No waste material has been used on site".	NT	The requirements of the condition have not been triggered.
40B	Prior to the reuse of any waste material on the site, the Proponent shall provide details of the source, type and quantity of the material in writing to the EPA and the Secretary.	Viewed email from Deana Burn, Planning to John Studdert, Manildra, dated 5 April 2018 noting submission of waste reuse material in accordance with the requirements of this condition and submission to EPA.		C	The requirements of this condition are being met.
41	The Proponent shall prepare and implement a Waste Management Plan for the project to the	Condition complied with in 2013 audit.	Verified implementation action on site:	C	The plan continues to be implemented.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	satisfaction of the Secretary. This plan must: a) be submitted to the Secretary for approval within 3 months of this approval; b) identify the various waste streams of the project; c) describe what measures would be implemented to reuse, recycle or minimise the waste generated by the project; and d) include a program to monitor the effectiveness of these measures.		<ul style="list-style-type: none"> <li>- Waste shall be contained in appropriate, covered and labelled containers, and</li> <li>- maintained in a clean and tidy condition.</li> </ul>		
42	The Proponent shall ensure that the lighting associated with the project: a) complies with the latest version of AS 4282(INT) - Control of Obtrusive Effects of Outdoor Lighting; and b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.	<p>Viewed letter from Paul Whisson, Electrical Engineer "Beverage Grade Alcohol Distillery Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p> <p>Viewed letter from Paul Whisson, Electrical Engineer "Boiler 2 Conversion to Coal Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p> <p>Viewed letter from Paul Whisson, Electrical Engineer "Boiler 4 Conversion to Coal Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p> <p>Viewed letter from Paul Whisson, Electrical Engineer "Flour Mill B Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p> <p>Viewed letter from Paul Whisson, Electrical Engineer "MVR Evaporators Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p> <p>Viewed letter from Paul Whisson, Electrical Engineer "Starch Dryer 5 Project" dated 20 May 2019 stating that lighting associated with the project complies with this condition.</p>		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
42A	If any LED obstruction lighting is to be installed on tall structures on the site, the frequency range of the LED light emitted must fall within the range of wavelengths 655 to 930 nanometres, and be installed to the satisfaction of the Department of Defence.		John Studdert, Manildra: “there has been no LED obstruction lighting installed on tall structures”	NT	No LED obstruction lighting has been installed.
43	The Proponent shall prepare and implement a Vegetation Management Plan for the project to the satisfaction of the Secretary. This plan must: a) be prepared in consultation with DWE and Council and be submitted to the Secretary for approval within 6 months of this approval; b) be prepared in accordance with DWE’s Guidelines for Controlled Activities – Vegetation Management Plans; and c) include: • a Landscape Plan for the project, which identifies screen plantings to minimise visual impacts; • detailed plans and procedures to: - restore and maintain the waterways and riparian zones of Shoalhaven River, Bomaderry Creek, Abernathy’s Creek and Broughton Creek on the site; - manage weeds in the vicinity of the riparian zones; - integrate works into the proposed landscaping for the rest of the site; - manage impacts on fauna; and - monitor the performance of the proposed restoration works.	Viewed letter from Chris Ritchie, Planning to John Studdert, Manildra “Landscape and Vegetation Plan” dated 15 May 2019 approving the Plan up to MOD 15.  The plan was not submitted in the required timeframe (extension of time granted to 30 July 2018, and the plan ultimately submitted on 1 May 2019).	Verified on site:  - Screen plantings  - Weeding  - Lawns  - Maintenance in the riparian zones	NC	The plan was not submitted within the required timeframe.  <b>Recommendation:</b>  Ensure all approval requirements are captured, tracked and assigned a responsibility in the compliance management system
43A	The Proponent shall survey the rock revetment wall on the Site to measure ongoing patterns of settlement and lateral movement. The survey monitoring shall: a) be undertaken every three months from February 2016 for a period of 12 months;	Viewed surveys of the rock revetment wall prepared by Allen Price and Scarratts from:  - 30 March 2016  - 29 June 2016	John Studdert, Manildra:  “Four surveys were conducted in 2016 which showed no measurable change compared to previous surveys (condition 43A issued under MOD 8 was for a	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>b) include river bed monitoring extending 15 metres from the toe of the revetment wall to measure changes in the bed profile; and c) include regular visual monitoring to assess any obvious change to ground features and the effects of major rainfall events.</p> <p>Note: If a geotechnical specialist concludes that movement levels are insignificant during the monitoring period, the frequency of monitoring may be reduced to once a year, or after significant rainfall events.</p>	<ul style="list-style-type: none"> <li>- 28 September 2016</li> <li>- 20 December 2016</li> <li>- 25 January 2018</li> <li>- 18 January 2019</li> </ul> <p>All surveys stated there was no lateral movement of any of the surveyed monitoring points.</p> <p>Viewed advice provided by Coffeys on 10 October 2016 stating that <i>“lateral movement along the revetment wall appears insignificant at this stage”</i>.</p>	<p>period of 12 months; 2 years was added for MOD 10)</p> <p>Geotechnical Advice obtained from Coffey’s in October 2016 (and in January 2018) conclude lateral movement is insignificant, hence frequency was reduced to once per year.”</p>		
43B	<p>The Proponent shall engage a suitably qualified geotechnical engineer to regularly review the survey data obtained in accordance with Condition 43A and shall carry out maintenance and/or repairs to the rock revetment wall if required, to the satisfaction of the Secretary. Maintenance and/or repairs shall be completed within 2 months of identifying the need for the repairs, unless otherwise agreed with the Secretary.</p>	<p>Viewed advice provided by Coffeys on 10 October 2016 stating that <i>“lateral movement along the revetment wall appears insignificant at this stage”</i>.</p> <p>Viewed advice provided by GHD on 10 April 2018 stating that <i>“the 2015 piling works have had no adverse influence on the stability of the bank”</i>.</p>	<p>John Studdert, Manildra: “Four surveys were conducted in 2016 which showed no measurable change compared to previous surveys (condition 43A issued under MOD 8 was for a period of 12 months; 2 years was added for MOD 10)</p> <p>Geotechnical Advice obtained from Coffey’s in October 2016 (and in January 2018) conclude lateral movement is insignificant, hence frequency was reduced to once per year.”</p>	C	The requirements of the condition are being met.
43C	<p>The Proponent shall engage a suitably qualified geotechnical engineer to survey the Shoalhaven River bank near the rail line extension described in MOD 12. The survey report shall:</p> <p>a) be approved by the Secretary prior to construction of the rail line extension; and</p>		<p>John Studdert, Manildra: “This condition has not been triggered. The rail line extension under MOD 12 has not been completed”.</p>	NT	

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	b) describe the nature and timing of measures to be implemented to protect river bank stability, if required.				
43D	The Proponent must ensure that all external, long-term storage areas at the Paper Mill site are set back a minimum of 11.5 metres from the crest of the Shoalhaven River bank.		Viewed aerial photo showing containers appearing to be 11.5m beyond bank.  John Studdert, Manildra: "We confirm the shipping containers are greater than 11.5 metres from the River bank...all external long-term storage areas at the Paper Mill site comply with condition 43D"	C	The requirements of the condition are being met.
43E	The Proponent must maintain and when required repair, the existing vegetation and rock protection on the Shoalhaven River bank on the Paper Mill site, to maintain the integrity and stability of the river bank.		John Studdert, Manildra:  "No maintenance or repairs have been required in the audit period."	NT	No maintenance or repairs have been required in the audit period.
44	The Proponent shall, to the satisfaction of the Secretary, ensure that: a) all landscaping works proposed in the Landscape Plan/s in Appendix 2B of this approval are completed within 6 months of the date of approval of MP 06_0228 MOD 2 in consultation with Council; b) the Landscape Plan/s in Appendix 2B of this approval are incorporated into the approved Landscaping and Vegetation Management Plan for the project; and c) suitable measures are in place and detailed in the Landscaping and Vegetation Management Plan to ensure vegetation at the site is maintained for the life of the project.	Assessed as compliant in the 2016 audit.	Viewed a range of areas, including the "Dairy Farmers" site in well-maintained condition.  John Studdert, Manildra:  "Vegetation is managed (pruning, etc) as required, to ensure adequate sight distances for entries/exits to site.  Council consultation has occurred for landscaping as part of vegetation screening in front of the ethanol distillery and prior to submission of the updated Landscape Plan.	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
45	45. The Proponent shall: a) commence landscaping as proposed in the Landscape Plans in Appendix 2C within 6 weeks of commencing construction of the car park described in MOD 3; b) update the Vegetation Management Plan for the project, in consultation with Council, to include the Landscape Plan in Appendix 2C, including details of the measures to be implemented to ensure that landscaping is maintained for the life of the project; and c) submit the updated Vegetation Management Plan to the Secretary for approval, by the end of April 2013.	Assessed as compliant in the 2016 audit.	John Studdert, Manildra: "The remaining MOD 3 car park landscaping was completed in the audit period"	C	The requirements of the condition are being met.
46	Prior to operation of the pelletising plant described in MP 06_0228 MOD 4 and as modified by MP 06_0228 MOD 5, the Proponent shall provide evidence to the satisfaction of the Secretary demonstrating that the Landscape Plan/s in Appendix 2B have been fully implemented.	Assessed as compliant in the 2016 audit.		NT	No additional requirements have been triggered in the audit period.
46A	The Proponent shall manage all vegetation on site to ensure adequate sight distances for vehicles entering and exiting the site. The Proponent shall consult with Council to ensure the landscaping is maintained in accordance with the requirements of Council.	Assessed as compliant in the 2016 audit.	Viewed vegetation on site and considered it to have been appropriately managed to ensure adequate sight distances for vehicles entering and exiting the site  John Studdert, Manildra: "Vegetation is managed (pruning, etc) as required, to ensure adequate sight distances for entries/exits to site.  Council consultation has occurred for landscaping as part of vegetation screening in front of the ethanol distillery and prior to	C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
			submission of the updated Landscape Plan.		
46B	The Proponent must plant screening vegetation in front of the parking area at the Paper Mill site, no later than 30 June 2018.	Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval 06_0228 MOD 14 Use of Paper Mill Site - Condition 46B Landscape Works" dated 3 July 2018 noting that planting has been completed prior to 30 June 2018 as required by condition 46B.		C	The requirements of the condition are being met.
46C	The Proponent must plant screening vegetation in front of the carbon dioxide plant at the Dairy Farmers site, no later than 31 December 2018.	Viewed email from Deana Burn, Planning to John Studdert, Manildra "RE: Shoalhaven Starches Project Approval MP06_0228 MOD 15 - Carbon Dioxide Plant - Condition 46C landscaping works" dated 12 February 2019 granting an extension to comply with this condition.		NT	The requirements of the condition have not yet been triggered.
47	Where possible the Proponent shall utilise building materials that will minimise the potential visibility of the Project (i.e. use of non-reflective materials).	Viewed letter from M.E. Engineering to PCA "DDG Pelletising Plant MOD 5" dated 15 October 2015 confirming that section visible from the boundary are constructed from non-reflective material where possible.	Viewed non-reflective building materials in use on site.	C	The requirements of the condition are being met.
48	One month following the completion of construction of the DDG exhaust stack described in MP 06_0228 MOD 5, the Proponent shall provide as-constructed details to Airservices Australia.	Viewed email from John Studdert, Manildra to Air Services Australia "Shoalhaven Starches Project Approval 06_0228 MOD 7 Starch Dryer No.5 - Condition 49 As-constructed plans" dated 20 December 2016 and submitting MOD 7 plans.  Viewed email from John Studdert, Manildra to Air Services Australia "Shoalhaven Starches Project Approval 06_0228 MOD 8 Flour Mill Alterations - Condition 50 As-constructed plans" dated 9 December 2016 and submitting MOD 8 plans.  Viewed email from John Studdert, Manildra to Air Services Australia "Shoalhaven Starches Project Approval 06_0228 MOD 10 Flour Mill B - Condition 48 Tall Structures" dated 18 October 2018 and submitting Flour Mill B plans.		C	The requirements of the condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		Viewed a resubmit of these plans at Air Services Australia request using new form.  Viewed email from John Studdert, Manildra to Air Services Australia "Shoalhaven Starches Project Approval 06_0228 MOD 12 Beverage Grade Ethanol - Condition 48 Tall Structures" dated 19 December 2018 and submitting MOD 12 plans.			
49	Deleted				
50	Deleted				
51	Deleted				
52	52. The Proponent shall ensure the filled area for construction of the access road and rail lines as described in MOD 9 shall be setback a minimum of 18 metres from Abernathy's creek.		John Studdert, Manildra: " Packing Plant project on hold".	NT	The packing plant is on hold.
53	29. Within 6 months of operation of the packing plant described in MOD 9, the Proponent shall provide evidence to the Secretary to demonstrate that landscaping and revegetation works have been fully implemented. The works shall include:  a) landscaping along the northern side of Bolong Road as described in MOD 9; and  b) a minimum 18-metre-wide section of the western bank of Abernathy's creek from Bolong Road to the northern boundary of the packing plant.		John Studdert, Manildra: " Packing Plant project on hold".	NT	The packing plant is on hold.

Table 13 Schedule 4 – Environmental Management, Reporting and Auditing Conditions

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
1	<p>1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Secretary. This strategy must:</p> <p>a) be submitted to the Secretary for approval within 3 months of this approval;</p> <p>b) identify the statutory requirements that apply to the project;</p> <p>c) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> <li>• keep the local community and relevant agencies informed about the operation and environmental performance of the project;</li> <li>• receive, handle, respond to, and record complaints;</li> <li>• resolve any disputes that may arise during the course of the project;</li> <li>• respond to any non-compliance;</li> <li>• manage cumulative impacts; and</li> <li>• respond to emergencies; and</li> </ul> <p>d) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the project.</p>	Assessed as compliant in the 2016 audit.	<p>Viewed implementation of:</p> <ul style="list-style-type: none"> <li>- complaints management</li> <li>- Corrective action procedure (CARs dated 4 August 2017 and 29 November 2016)</li> <li>- Management plans</li> </ul>	C	The requirements of this condition are being met.
2	The Proponent shall implement the Environmental Management Strategy and the management plans required in Schedule 3 of this approval (as revised and approved by the Secretary from time to time) for the duration of the project.		Viewed a range of evidence of implementation of the Environmental Management Strategy and Management Plans as part of auditing all conditions in Schedule 3.	C	The requirements of this condition are being met.
2A	The Proponent shall notify the Secretary and any other relevant agencies of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment associated with the facility immediately after the Proponent becomes aware of the incident.	<p>Viewed incident reports sent to the EPA and Planning regarding incidents on:</p> <ul style="list-style-type: none"> <li>- 4 August 2017 (overflow of process water to Bolong Rd footpath and kerbside guttering)</li> <li>- 31 October 2018 (discharge of process water from the DDG to Abernathy’s Creek)</li> </ul>	<p>John Studdert, Manildra:</p> <p>“3 incident reports submitted to the EPA and the Secretary during the audit period.</p> <p>A 4th incident (14 December 2017) reported to the EPA was</p>	NC	<p>On one occasion an incident was not reported to Planning.</p> <p><b>Recommendation:</b></p> <p>Ensure all notification requirements are</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>- 12 November 2017 (loss of containment of process liquid / vapour mix from ethanol plant resulting in process liquid depositing on Bolong Rd footpath and kerbside guttering.</p> <p>Viewed incident reports sent to the EPA regarding incident on 14 December 2017 (pipe failure of one of the floor drains).</p> <p>Viewed letter from Katrina O'Reilly, Planning to John Studdert, Manildra re "Warning" dated 29 November 2018. The letter is a warning for:</p> <p>"...failing to comply with Schedule 4, Condition 2A of the approval by failing to "notify the Secretary of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment associated with the facility immediately after the Proponent becomes aware of the incident".</p>	not submitted to the Secretary. This was self-reported as a non-compliance in the 2008 Annual Report 2018 and a subsequent warning letter issued by the Department."		assigned a responsibility and appropriate systems are in place to trigger them when an incident occurs.
2B	Within 7 days of the date of this incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident.	<p>As above.</p> <p>Incident reports all sent to the Secretary and EPA within 7 days with the exception of the incident on 14 December 2017 which was not reported to Planning within 7 days.</p>		NC	<p>On one occasion an incident was not reported to Planning within 7 days.</p> <p><b>Recommendation:</b></p> <p>Ensure all notification requirements are assigned a responsibility and appropriate systems are in place to trigger them when an incident occurs.</p>
3	By the end of October each year, or other timing as may be agreed by the Secretary, the Proponent shall review the environmental performance of the Project to the satisfaction of the Secretary. This	Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 29 November 2016 regarding submission of Annual Environmental Reports required		C	The requirements of this condition are being met.

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>review must:</p> <p>a) be submitted to the Secretary by the end of October each year;</p> <p>b) describe the development that was carried out over the previous 12-month period, and the development that is proposed to be carried out over the next year;</p> <p>c) include a summary of monthly production levels over the year;</p> <p>d) include a comprehensive review of the monitoring results and complaints records of the Project over the previous year, which includes a comparison of these results against the</p> <p>(i) the relevant statutory requirements, limits or performance measures/criteria;</p> <p>(ii) requirements of any plan or program required under this approval;</p> <p>(iii) the monitoring results of previous years; and</p> <p>(iv) the relevant predictions in the EA;</p> <p>e) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>f) identify any trends in the monitoring data over the life of the Project;</p> <p>g) identify any discrepancies between the predicted and actual impacts of the Project, and analyse the potential cause of any significant discrepancies; and</p> <p>h) describe what measures will be implemented over the next year to improve the environmental performance of the Project.</p>	<p>by this condition and confirming the report was completed to the satisfaction of the Secretary.</p> <p>Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 17 November 2017 regarding submission of Annual Environmental Reports required by this condition and confirming the report was completed to the satisfaction of the Secretary.</p> <p>Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 29 November 2018 regarding submission of Annual Environmental Reports required by this condition and confirming the report was completed to the satisfaction of the Secretary.</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228 - Annual Environmental Management Report 2016" dated 31 October 2016</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228, schedule 4, condition 3 - Annual Environmental Management Report 2017" dated 31 October 2017</p> <p>Viewed email from John Studdert, Manildra to Chris Ritchie, DPE "Shoalhaven Starches Project Approval 06_0228 - Annual Environmental Management Report 2016" dated 31 October 2018</p> <p>Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 29 November 2016 and confirming the report generally satisfied Condition 3 of the Approval.</p> <p>Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 17 November 2017 and confirming the report generally satisfied Condition 3 of the Approval.</p> <p>Viewed letter from Karina O'Reilly, DPE to John Studdert, Manildra dated 29 November 2018 and</p>			

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
		<p>confirming the report generally satisfied Condition 3 of the Approval.</p> <p>In addition, the auditor viewed a sample of sections of the report to validate that the requirements (b)-(h) were included in each years' report.</p>			
4	<p>Within 12 months of the commencement of operations, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <p>a) be conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>b) be undertaken in consultation with EPA, DWE and Council;</p> <p>c) assess the environmental performance of the project and undertake any works necessary to determine whether it is complying with the relevant standards, performance measures, and statutory requirements;</p> <p>d) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,</p> <p>e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.</p> <p>Note: Wherever possible, the timing of the Independent Environmental Audit, Independent Odour Audit and Hazard Audit should be co-ordinated to avoid duplication, and the experts conducting the Independent Odour Audit and Hazard Audit should be included in the broader audit team. In the initial years, the Independent</p>	<p>Audits meeting the requirements for this condition were completed for 2013 and 2016.</p>		C	<p>The requirements of this condition are being met.</p>

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	Environmental Audit team should include experts in Odour, Noise, and Wastewater Irrigation.				
4A	Within 6 weeks of completing this audit, or as otherwise agreed by the Secretary, the Proponent shall submit a copy of the audit report to the Secretary with a response to any recommendations contained in the audit report.	Viewed audits and close out actions for 2013 and 2016.		C	The requirements of this condition are being met.
4B	Within 3 months of submitting an audit report to the Secretary, the Proponent shall review and if necessary, revise the strategy/plans/programs and undertake additional mitigation measures as required under this approval to the satisfaction of the Secretary.	Viewed evidence of a range of plans having been updated since the last audit.		C	The requirements of this condition are being met.
5A	<p>Within 3 months of the submission of an:</p> <p>a) annual review under condition 3;  b) incident report under condition 2;  c) audit under condition 4; or  d) any modification to the conditions of this approval,</p> <p>the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval.</p> <p>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 Project.</p>	Viewed evidence of a range of plans having been updated since the last audit.		C	<p>The requirements of the condition are being met.</p> <p><b>Opportunity for Improvement:</b></p> <p>Ensure the review process following each of the triggers in this condition is documented.</p>
6	<p>The Proponent shall:</p> <p>a) make copies of the following publicly available on its website:  (i) the documents referred to in Condition 2 in Schedule 2;  (ii) all current statutory approvals for the Project;  (iii) all approved strategies, plans and programs required under the conditions of this approval;</p>	Viewed Project website and links for all required information.	<p>John Studdert, Manildra:</p> <p>“We have had no community meeting minutes to publish.</p> <p>Point 45 (Boiler No. 2) there has been no annual monitoring completed since 2017, due to not</p>	C	

Cond	Requirement	Documentation viewed	Interviews and Inspections	Status	Comments
	<p>(iv) a comprehensive summary of the monitoring results of the Project, reported in accordance with the specifications in any conditions of this approval, or any approved plans and programs;</p> <p>(v) a complaints register, updated on an annual basis;</p> <p>(vi) minutes of community meetings;</p> <p>(vii) the annual reviews of the Project;</p> <p>(viii) any independent environmental audit of the Project, and the Proponent's response to the recommendations in any audit;</p> <p>(ix) any other matter required by the Secretary;</p> <p>and</p> <p>b) keep this information up to date,</p> <p>Note: This condition does not require any confidential information to be made available to the public.</p>		<p>boiler not operating (standby-duty boiler) and modification works to convert from woodchip back to coal-fired (MOD 13)"</p>		

## APPENDIX B – SECRETARY AUDITOR APPROVAL



Contact: Georgia Dragicevic  
Phone: 4247 1852  
Fax: 4224 9470  
Email: [Georgia.Dragicevic@planning.nsw.gov.au](mailto:Georgia.Dragicevic@planning.nsw.gov.au)

Mr John Studdert  
Quality Assurance & Environmental Coordinator  
Shoalhaven Starches Pty Ltd  
36 Bolong Road  
BOMADERRY NSW 2541

Dear Mr Studdert

**Shoalhaven Starches Plant (MP 06\_0228)  
Independent Environmental Audit 2019**

I refer to your email letter dated 25 February 2019 seeking approval of Mr Jon Panic of Malo Sustainability Consulting Pty Ltd as the lead auditor for the upcoming Shoalhaven Starches Plant Independent Environmental Audit, in accordance with Schedule 4, Condition 4 of the project approval MP 06\_0228, as modified (the approval).

Having considered the qualifications and experience of Mr Panic, the Secretary endorses the appointment of Mr Panic to undertake the audit in accordance with Schedule 4, Condition 4 of the approval. This approval is conditional on Mr Panic being independent of the development.

The audit is to be conducted in accordance with AS/NZS ISO 19011 Australian/New Zealand Standard: Guidelines for quality and/or environmental management systems auditing and in accordance with the Independent Audit Post Approval Requirements dated June 2018. A copy of the requirements can be located at <http://planning.nsw.gov.au/Assess-and-Regulate/About-compliance/Compliance-policy-and-guidelines/Independent-audit-post-approval-requirements>.

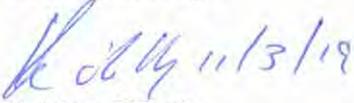
The audit report is to include the following:

- consultation with the relevant agencies;
- a compliance table indicating the compliance status of each condition of approval and any relevant EPL;
- not use the term "partial compliance";
- recommend actions in response to non-compliances;
- review the adequacy of plans and programs required under this consent; and
- identify opportunities for improved environmental management and performance.

Within six weeks of completion of the audit, Starches is to submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Secretary, it is recommended that Starches review the report to ensure it complies with the relevant consent condition.

Should you have any enquiries in relation to this matter, please contact Georgia Dragicevic, Senior Compliance Officer, on 4247 1852 or by email to [Georgia.Dragicevic@planning.nsw.gov.au](mailto:Georgia.Dragicevic@planning.nsw.gov.au)

Yours sincerely



Katrina O'Reilly

**Team Leader Compliance**  
*as nominee of the Secretary*

## APPENDIX C – INDEPENDENT AUDIT DECLARATION

## Appendix C – Independent Audit Declaration

### Independent Audit Declaration Form

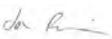
Project Name	Shoalhaven Starches Expansion Project
Consent Number	06_0228
Description of Project	Ethanol production capacity increase at Shoalhaven Starches factory
Project Address	160 Bolong Rd, Bomaderry NSW 2541
Proponent	Manildra Group / Shoalhaven Starches
Title of Audit	Independent Environmental Audit
Date	21 June 2019

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 2018)*;
- 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:

- 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
- 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	Jonathan Panic
Signature	
Qualification	BEnvSc; Exemplar Lead Environmental Auditor
Company	Malo Sustainability Consulting Pty Ltd
Company Address	Manly, NSW 2095

## APPENDIX D- AGENCY CONSULTATION

# Shoalhaven Starches Expansion Project

## Agency Consultation for Independent Environmental Audit

June 2019

Malo Sustainability Consulting  
For Manildra Group



<b>1</b>	<b>Introduction .....</b>	<b>3</b>
<b>1.2</b>	<b>Stakeholder consultation .....</b>	<b>3</b>
1.2.1	NSW Environment Protection Authority.....	3
1.2.2	NSW Department of Industry / Lands and Water .....	3
1.2.3	NSW Department of Planning and Environment .....	3
1.2.4	Shoalhaven City Council.....	3

# 1 Introduction

Malo Sustainability Consulting (Malo) was commissioned by Shoalhaven Starches Pty Ltd (Shoalhaven Starches) to undertake an independent environmental audit of compliance as required under Project Approval 06\_0228 approved on 28 January 2009.

## 1.2 Stakeholder consultation

The auditor contacted the following stakeholders informing them that the audit was being undertaken and requesting any input relating to environmental management at the site, or Shoalhaven Starches compliance with their approval more broadly:

- Shoalhaven City Council (Council)
- NSW Environment Protection Authority (NSW EPA)
- Department of Planning and Environment (NSW DPE)
- Department of Industry / Lands and Water)

### 1.2.1 NSW Environment Protection Authority

Stefan Press, Senior Operations Office at the NSW Environment Protection Authority (EPA) advised that:

*Compliance with the EPL remains generally good – at this point in time there are no particular outstanding issues with respect to environmental issues or how the site operates. There was an incident going back 18 months where there was a process failure and starch was discharged to Abernathys Creek. At the time, an appropriate response was carried out.*

### 1.2.2 NSW Department of Industry / Lands and Water

David Zerafa, Senior Water Regulation Officer at the Department of Industry / Lands and Water (DILW) advised that:

*The jurisdiction and priorities for Natural Resource Access Regulator (a division of Department of Industry) is waterfront land being land in and within 40m of watercourses. For this Shoalhaven Starches site, that is primarily the Shoalhaven River and Bomaderry Creek. However, Abernethys Creek (which despite being highly modified) also runs through the site and there are some components of the Plant expansion that have the potential to impact on that creek and adjoining waterfront land.*

*The Regulator considers the following areas suitable for focus in the Independent Environmental Audit:*

- *Ongoing Implementation of the rehabilitation management plan for the Shoalhaven River & Bomaderry Creek Riparian Zones in accordance with the timeframes proposed.*
- *Following instances of bank failure or increased risk of bank failure as a result of vibration from rail use, the site constructed a concrete retaining wall on the bank of the Shoalhaven River. This option was endorsed by DPI Water and DPI Fisheries at the time but is to include additional works to place a rock revetment and planting of vegetation along the toe of the wall to provide screening and establish some riparian value along this part of the riverbank. I have attached the approved cross-section for your assistance. Aspects of this work involved some small encroachments onto Crown land which require consent from Crown Lands. At present, this aspect remains outstanding and so should be investigated for timeframes for Crown Lands approvals and implementation/completion.*
- *Ensure the integrity of Abernethys Creek is being maintained as works adjacent are ongoing during implementation construction of Packaging Plant and new rail lines.*

### 1.2.3 NSW Department of Planning and Environment

The NSW Department of Planning and Environment (DPE) were contacted for comment and contributed to finalisation of the scope for the audit.

### 1.2.4 Shoalhaven City Council

Shoalhaven City Council were contacted and noted receipt, however did not provide any specific feedback or comment

## APPENDIX E – SITE INSPECTION PHOTOGRAPHS



Pedestrian safety controls



IBC unbundled



Accessible Pump Station



Car parking



Parking discs



Parking lines



Biofilter



Weeded, cleared area



HumeCeptor



DDG Enclosed building



Waste management



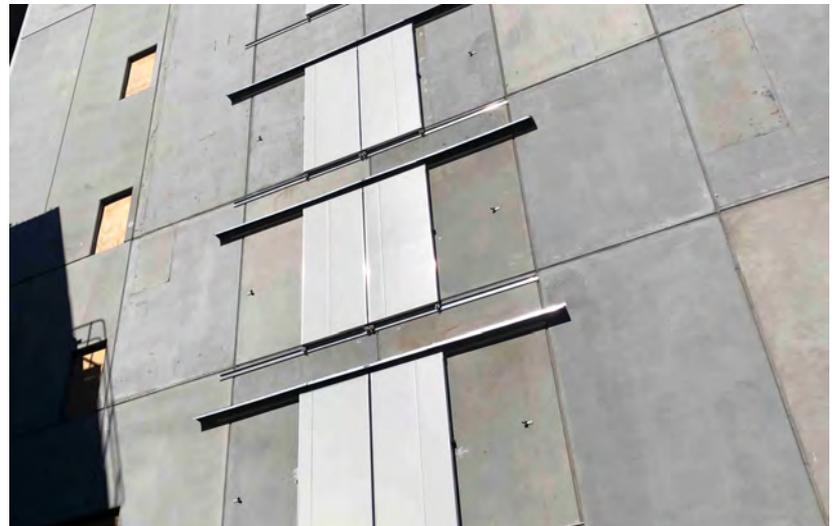
Starch Dryer No5



Wash water contained



Newly installed stormwater pump



Flour Mill B



Lanscaping implemented



MSDS enclosure



CO2 plant construction



WWTP



WWTP



Irrigation