



Report for Manildra Group
Shoalhaven Starches Project Approval 06_0228
2016 Independent Environmental Audit
14 July 2016



edge environment

For: Manildra Group

Quality Assurance and Environment Coordinator

36 Bolong Road, Bomaderry

nowra@manildra.com.au

+612 4423 8200

By: Edge Environment Pty Ltd

L5, 39 East Esplanade, Manly NSW 2095

T +61 (2) 9438 0100

Jon Panic

Jon@EdgeEnvironment.com.au

edgeenvironment.com.au

ABN 941 301 116 16

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edge environment

EXECUTIVE SUMMARY

Edge Environment Pty Ltd (Edge) was commissioned by Shoalhaven Starches Pty Ltd (Shoalhaven Starches) to undertake this Independent Environmental Audit of compliance as required under Project Approval 06_0228 approved on 28 January 2009.

This Independent Environmental Audit was conducted in accordance with conditions prescribed in Schedule 4 of the Project Approval.

Of the 108 conditions in the approval, Shoalhaven Starches were found have complied with 75 conditions and not complied with 10 conditions. An additional 23 conditions were not able to be audited.

Two of the non-compliances related to direct / actual impacts to the environment:

- A discharge of starch into the Shoalhaven River; and
- An exceedance of the noise limits of the approval

A further two non-compliances were related to the construction of four silos without appropriate prior approval.

The remaining non-compliances were related to documentation submissions and approvals. In this regard, significant improvements had been made since the last independent audit during which technical non-compliances of this nature represented a large number of the non-compliances identified.

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1. INTRODUCTION

Edge Environment Pty Ltd (Edge) was commissioned by Shoalhaven Starches Pty Ltd (Shoalhaven Starches) to undertake this independent environmental audit of compliance as required under Project Approval 06_0228 approved on 28 January 2009.

This independent audit was conducted in accordance with 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.*

The scope of the audit included the following conditions in Shoalhaven Starches Expansion Project Approval (Consolidated) 06_0228 up to and including MOD 8:

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

The audit included a desktop review and a one-day site visit. The audit was undertaken by Jon Panic, an Exemplar (RABQSA) accredited Lead Auditor (and approved by the Department of Planning), on 5 April 2016 and involved a walk-around of the entire site whilst accompanied by a member of Shoalhaven Starches staff.

Table 1 lists the personnel interviewed during the site component of the audit.

Table 1. Personnel interviewed during the audit.

Title
Quality Assurance & Environmental Coordinator
Farm Manager
Maintenance Strategist

1.1 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 Primary Industries (DPI) (NSW Office of Water)

1.2 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.

2. AUDIT FINDINGS

2.1 Follow up on findings from 2013 audit

Table 2 below shows a summary of the findings, including an update on whether the requirement has been completed (closed out).

Table 2. Follow up on non-compliances from 2013 Independent Audit

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
2	4	The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of any reports, plans, strategies, programs or correspondence...	<p>There were some instances where the Proponent was unable to demonstrate full compliance with a requirement by the Director General.</p> <p>It was considered that these were generally minor issues that reflected management system breakdown rather than on any broader suggestion of inaction. That is, the auditor considered that Shoalhaven Starches generally endeavoured to comply with reasonable requirement/s of the Director-General.</p>	<p>Ensure all requirements issued by the Director-General are fully complied with.</p> <p>Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.</p>	<p>Compliance with approval requirements was found to be more effectively managed than the 2013 audit.</p> <p>There is still an opportunity to further tighten procedures around managing compliance requirements in the <i>EMS itself</i>, however the auditor notes that instances of non-compliance with technical requirements in the approval (e.g. timing of submissions; and requirements for Council / Secretary approval) was significantly reduced this audit.</p>	Complete
2	6	The Proponent must not produce on site: a) more than 265,000 tonnes of industrial grade flour per year; and b) more than 300 million litres of ethanol per year, subject to (2) below...	Production of ethanol was increased above the volumes permitted in the staged approval	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Production limits were not exceeded in the audit period.	Complete.

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
						Flour & ethanol production within limits of approval.
2	7	The Proponent may apply to the Director-General for approval to increase ethanol production up to the rate of 200 million litres of ethanol a year on site if – a) the mandatory odour controls listed in Appendix 3 to this Approval have been implemented...	Production of ethanol was increased above the volumes permitted in the staged approval.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Production limits were not exceeded in the audit period.	Complete. Ethanol production within 300ML p.a. limit.
2	8A	Within 2 months of the date of the approval of MP 06_0228 MOD 2, the Proponent shall: a) obtain and provide copies to the Director-General all necessary building certificate(s) from Shoalhaven City Council....	The required information was not provided to the Director-General	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. Certificates submitted to Planning on 21 February 2014.	Complete.
3	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.	Offensive odours were detected emanating from Pond 4 due to a pond cover not being in place.	Ensure odour management controls are implemented, maintained in working order, and meet Director-General or EPA requirements.	There were no offensive odour emissions incidents during the audit period.	Complete. Pond 4 cover installed on 21 May 2010

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
3	4A	Prior to increasing ethanol production the Odour Management Plan for the project must be updated to the satisfaction of the Director General to include the additional Appendix 3 mandatory odour controls specified in the modification approval MOD 1 – Deletion of DDG Pelletiser.	No evidence that the revised plan has been endorsed by the Director General.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Planning approval for the Odour Management Plan has been obtained	Complete. Submitted 1 May 2015, Planning Approval letter 12 November 2015
3	6	Within 6 weeks of the completion of this audit, the Proponent shall submit a copy of the audit report to both OEH and the Department with a response to any recommendations contained in the audit report.	No evidence of submission to the Director-General with response to recommendations.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Audit reports were submitted to NSW EPA and DPE within 6 weeks of completion.	Complete. 2013 audit dated 30 September 2013 submitted with comments on 11 October 2013
3	10	The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Director-General	Evidence of consultation with OEH for this procedure was not provided.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	The Air Quality Monitoring Program is being implemented.	Complete.

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
3	12	The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.	One instance was recorded in which Shoalhaven Starches did not comply with the noise limits in Table 2	Ensure noise management controls are implemented, maintained, and hours of operation are adhered to.	Gluten discharge ducts cleaned & follow-up noise testing in Jan 2014 within noise limits. One instance was recorded at 'Nobblers Lane' (August 2015) in which EPA Noise Limits were not complied with	Complete. Gluten discharge ducts cleaned & follow-up noise testing in Jan 2014 within noise limits.
3	14	The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General.	The plan was not initially submitted within 3 months of the approval.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	The requirements of this condition are being met.	Complete.
3	22	The Proponent shall prepare and implement a Stormwater Management Plan for the project to the satisfaction of the Director-General	The plan was prepared to the satisfaction of the Director-General, however record of Council consultation was not kept.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Evidence of the Director-General (Secretary) satisfaction was not obtained. Planning Approval letter dated 15 September 2009, viewed in previous audit.	Complete. Revised SMP's for MOD 6 & MOD 7 prepared in accordance with Conditions 22A & 22B.
3	27A	The Proponent shall provide works-as-executed plans to the Director-General and Council...	The original plans were submitted to the Director-General by 31 October 2012, however not to Council. Discussions are currently underway to finalise the	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	The plans were provided to the Secretary and Council as required.	Council yet to approve.

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
			requirements of this condition			
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.	Whilst the works have been undertaken as required by the condition, no evidence of Council satisfaction was provided.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	The access point was removed. However no evidence of Council satisfaction was received.	Council yet to approve.
3	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.; and c) construct at least 30 new parking spaces at the proposed packing plant prior to the commencement of operations at the plant, to the satisfaction of the Director-General.	Works are not currently in compliance with the requirements of this condition, however approval has been requested from Council that internal roads/parking not be required to meet AS2890.1:2004 and AS2890.2:2002, or their latest versions.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed. Where necessary seek approval for extension of time for compliance requirements when a requirement is first identified as having potential for modification.	Council approval has not been obtained (not closed out since last audit). Letter to Council dated 23 August 2013 requesting approval for existing car parking on site. During a site visit by Andrew Lissenden (Council) in February 2016, it was indicated a response will be provided soon.	Council yet to approve.
3	35	The Proponent shall implement all reasonable and feasible recommendations in the rail level crossing safety assessment to the satisfaction of the Director-General.	Evidence of Director-General satisfaction of the implementation of these works has not been obtained.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Secretary approval has not been obtained (not followed up from last audit) Rail Assessment conducted in 2009 with representatives from Council & Planning present. All feasible recommendations have been implemented by SS. No written evidence of approval by D.G. Crossing has been in operation for 6 years with	Complete (explicit written approval not obtained, but operation has been permitted to continue).

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
					no issues raised from any regulatory authorities. Documentation Status spreadsheet maintained & submitted to Planning on a regular basis seeking approvals to avoid re-occurrence.	
3	36	The Proponent shall prepare and implement a Construction Safety Study in accordance with the Department's Hazardous Industry Planning Advisory Paper No.7 - Construction Safety Guidelines, for the Project to the satisfaction of the Director-General.	An initial study has been submitted, however an addendum required by the Director-General has not yet been provided.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	All CSS have been submitted in accordance with this condition since the last audit.	Complete.
3	37A	The Proponent shall prepare and implement a Construction Safety Study in accordance with the Department's Hazardous Industry Planning Advisory Paper No.7 - Construction Safety Guidelines, for MP 06_0228 MOD 2 to the satisfaction of the Director-General	The Study was not updated as required.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. CSS submitted 28 August 2014 and approved 14 November 2014	Complete.
3	38	The Proponent shall prepare and implement the following to the satisfaction of the Director-General: a) an updated Fire Safety Study for the project as modified by MP 06_0228 MOD 2 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...	Requirements (a) and (e) were not updated as required for MOD 2. Revised dates for new submissions have now been agreed with planning	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. Fire Safety Study submitted 17 September 2013 and Rev E submitted 18 December 2013. Emergency Plan submitted 1 November 2013	Complete.

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
3	39A	The Proponent shall prepare and implement the following to the satisfaction of the Director-General: a) a Hazard and Operability Study for MP 06_0228 MOD 2. b) a Final Hazards Analysis (FHA) for MP 06_0228 MOD 2	Studies not updated prior to commissioning. The studies are being updated but have not yet been completed.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. MOD 2 HAZOPs & FHA have been submitted & approved in accordance with this condition.	Complete.
3	39B	Twelve months after the commencement of operations of MP 06_0228 MOD 2 and every three years thereafter, or at such intervals as the Director General may agree, the Proponent shall carry out a comprehensive Hazard Audit of the project as modified by MP 06_0228 MOD 2...	The audit has not yet been undertaken.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. Hazard Audit 2013 completed, submitted 27 March 2014.	Complete.
3	43	The Proponent shall prepare and implement a Vegetation Management Plan for the project to the satisfaction of the Director-General.	Whilst the plan has been developed and approved by the Director-General, the requirement to submit annual reports detailing the implementation of the plan has not been met each year.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Updates sent in 2014 and 2015 Annual Reports	Complete.
3	44	The Proponent shall, to the satisfaction of the Director-General, 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	The landscaping works were not completed within the required timeframe. It is noted that the construction works are not yet completed, and it is therefore not practical to complete the works in all areas.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Works are being completed and maintained as required	Complete.

Sched.	Cond.	Requirement (Summary)	Auditors comment 2013	Auditors recommendation	2016 update	Status
		vegetation at the site is maintained for the life of the project.				
4	2	The Proponent shall notify the Director-General of any incidents associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General with a detailed written report on the incident, and any action that has subsequently been taken in relation to this incident.	Only one incident has been reported to the Director-General; notification to the Director-General was not provided within 7 days of the date of the incident.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Two incidents reported since 2013 audit and reporting timing requirements were met.	Complete.
4	3	The Proponent shall submit an Annual Report to the Director-General and other relevant agencies.	The reports required by this condition are not being submitted.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	2014 Annual Report submitted 2 February 2015	Complete.
4	5A	Within 3 months of: a) a modification to this approval; and/or b) any audit required under this approval, the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General. 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.	Evidence of all plans being reviewed and revised following modifications to this approval were not available.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit. Reviews completed for MODs 4,5,6 & 7. Approval by the Director-General no longer required.	Complete.
4	6	Within 3 months of the approval of any strategy / plan / program required under this approval (or any subsequent revision of these strategies / plans / programs), or the completion of the audits or annual reports required under this approval, the Proponent shall provide a copy of the relevant documents/data to: a) the relevant agencies, and b) any interested party upon request.	Not all finalised plans were submitted to the relevant stakeholders as required.	Revise the Shoalhaven Starches EMS to ensure that compliance requirements are more effectively managed.	Compliance with approval requirements was found to be more effectively managed than the 2013 audit.	Complete.

2.2 Summary of audit findings

Table 3 shows a summary of the findings. Conditions assessed as “*No Finding*” are conditions that were not considered auditable for this audit. They may have requirements that are not yet triggered, for example. The full audit tables are included in Appendix A.

Table 3. Summary of compliance for 2016 Independent Audit (06_0228).

Schedule	Conditions	Compliance	No finding	Non-Compliance
Schedule 2	18	13	3	2
Schedule 3	81	53	20	8
Schedule 4	9	9	0	0
Total	108	75	23	10

Table 4 below presents a summary of the non-compliances and the relevant comments and recommendations for each.

Table 4. Non-compliances 2016 Independent Audit

Sched.	Cond.	Requirement (Summary)	Auditors comment	Auditors recommendation
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"> Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	Construction 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
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

Sched.	Cond.	Requirement (Summary)	Auditors comment	Auditors recommendation
3	12	<u>The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.</u>	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
3	15	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
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
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
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
3	35	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
3	35A	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	Council approval has not been obtained	Ensure documentation required under this approval is submitted within the required timeframes

Sched.	Cond.	Requirement (Summary)	Auditors comment	Auditors recommendation
		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.		
3	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.	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

2.3 Stakeholder consultation

2.3.1 Shoalhaven City Council

Shane Pickering, Environmental Health Unit Manager, Shoalhaven City Council, provided the following response to the auditor's request for comment:

Although Council is not the ARA for the site we do get complaints from time to time which are referred to the EPA. These relate to the yeasty odour coming from the premise that can often affect the residential areas of Bomaderry and Nowra depending on the wind conditions at the time. There are no records kept of these complaints but they are supported by observations from council's authorised officers as being quite noticeable at times.

Having said that these incidents are less frequent than in the past but still do make the area unpleasant at times.

We have also been advised (Self-Reported) about a discharge into the Shoalhaven River on the 19/3/14 where 5000L of starch discharged into the River between 8.00am & 9.30am.

2.3.1 NSW EPA

Stefan Press, Senior Operations Officer – South East Region, NSW EPA, provided the following response to the auditor's request for comment:

The only specific comments that we have relate to the undertaking of the annual Independent Odour Audit which we are not sure if this is occurring concurrently this year with the tri-annual Independent Environmental Audit? In any case, I will provide you with these comments as follows.

The EPA has for the previous year's Independent Odour Audit requested that the audit identify and quantify emissions from all significant odour sources at Shoalhaven Starches premises, including the EPA licensed air emissions discharge points that have odour monitoring requirements. The odour monitoring results obtained should be included in an appropriate odour dispersion model and that provides a visual representation/map(s) that includes but need not be limited to:

- predicted ground level odour concentrations (represented as suitably scaled odour contours) in the areas surrounding the Shoalhaven Starches premises from all identified odour sources, including EPA licensed points with odour monitoring requirements;*
- predicted ground level odour concentrations (represented as suitably scaled odour contours) in the areas surrounding the Shoalhaven Starches premises from only EPA licensed points that have odour monitoring requirements; and*
- a comparative analysis of the current audit year odour dispersion modelling results against the results obtained from the past years audits and critical with the odour impact predictions that were made in the original Environmental Assessment (EA) for the Shoalhaven Starches ethanol expansion project approval.*

Undertaking these above actions allows the EPA to see how the overall odour performance of the premises is tracking over time and against the original

predictions in the EA, and to also determine if the EPA licence held by Shoalhaven Starches needs to be amended to include any newly identified odour source(s).

The EPA has also been asked by previous auditors engaged to undertake the Independent Odour Audit about the number of odour complaints received by the EPA in the relevant audit period. In this respect, the EPA has since 1 July 2015 received 7 complaints where the person reporting nominated Shoalhaven Starches as the source of the odour. Please note that upon investigation of these complaints the EPA identified that 5 of these complaints (all received in close succession in November last year) related to the spreading of poultry manure on agricultural land in Terara which had no association to the operations undertaken by Shoalhaven Starches. As such, the EPA has not attributed these 5 complaints to the Shoalhaven Starches premises.

2.3.1 Department of Planning and Environment

Deana Burn, Environmental Consultant, NSW DPE, provided the following response to the auditor's request for comment:

The Department would like the audit to encompass both the factory site and the environmental farm. There have been numerous modifications since the last audit, so a thorough examination of built, approved and modified components is required. The Department would also like to get an understanding of the adequacy of Starches processes for managing compliance with the project approval and a general understanding of how well the factory/environmental farm performs against key environmental criteria.

2.3.2 Department of Primary Industries (NSW Office of Water)

David Zerafa of Department of Primary Industries was contacted for comment. No comments were provided.

3. CONCLUSION

Of the 108 conditions in the approval, Shoalhaven Starches were found have complied with 75 conditions and not complied with 10 conditions. An additional 23 conditions were not able to be audited.

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

- A discharge of starch into the Shoalhaven River; and
- An exceedance of the noise limits of the approval

A further two non-compliances were related to the construction of four silos without appropriate prior approval.

The remaining non-compliances were related to documentation submissions and approvals. In this regard, significant improvements had been made since the last independent audit during which technical non-compliances of this nature represented a large number of the non-compliances identified.

3.1 Stakeholder consultation

Comments were received from Shoalhaven City Council, the NSW EPA and NSW DPE.

The comments from the three agencies suggest that the key concern remains the odour emissions (or potential for odour emissions). The comments suggest that the frequency of complaints and issues surrounding odour emissions from the site continues to decrease over time.

NSW DPE requested that the audit include the environmental farm. This was incorporated into the scope of the audit and found to be well managed. Soil monitoring was being undertaken as required (and reported in the Annual Reports). The 2015 *Annual Surface Soil Testing Program* by Cowman Stoddart found that “the pastures are in good condition and are highly productive”.

NSW DPE also commented on the appropriateness and effectiveness of the approach to managing compliance with the approval. During the 2013 audit a number of non-compliances were identified that related to ineffective management of compliance with the approval requirements (as opposed to incidences of environmental harm or potential for environmental harm). The auditor found that the management of these issues had been significantly improved in the last three years. The *Fastrack* system used to manage compliance (which included an audit program management module and management plan review module) was considered to be an effective tool for improving the management of compliance with approval requirements.

3.2 Recommendations

Table 5 summarises the recommendations made by the auditor.

Table 5. Audit Recommendations

Recommendation	Justification
Ensure approvals (including construction certificates) are obtained for all new construction work on site	One non-compliance during the audit period related to works carried out without the required approval.
Ensure documentation required under this approval is submitted within the required timeframes	A number of non-compliances raised in this audit could have been avoided by the implementation of a more effective management system.

Recommendation	Justification
	This aspect of the management of the site had been significantly improved upon in the three years since the last independent environmental audit.
Review noise management controls to ensure that there are no exceedances of the stipulated noise limits	One non-compliance during the audit period related to an exceedance of the noise limits in the approval.
Review wastewater discharge controls to ensure there are no discharge incidents that do not comply with this approval or the POEO Act	One non-compliance during the audit period related to a discharge of starch into the Shoalhaven River.
Review bunding on site and ensure all chemicals and fuels are stored in appropriately bunded areas	Some chemicals and fuels observed on site were not stored in appropriately bunded areas.

3.3 Opportunities for improvement

Table 6 summarises the opportunities for improvement suggested by the auditor.

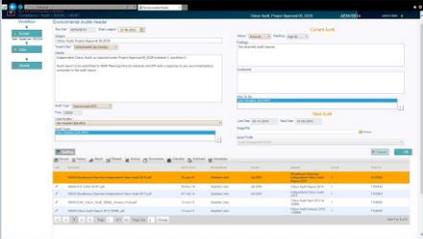
Table 6. Opportunities for Improvement

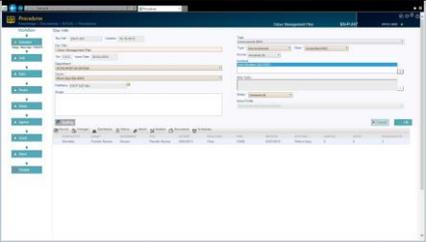
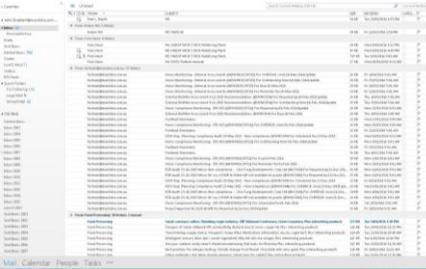
Opportunities for Improvement	Justification
Consider undertaking a waste audit or some other task appropriate for measuring the effectiveness of waste management measures in place and identifying any opportunities for improved processes.	An opportunity exists to determine the effectiveness of existing waste management measures on site and whether there is any scope to improve resource recovery.
Whilst still generally intact and functional, a number of areas on the site contained sediment fencing that was in need of replacement. Auditor recommends a program of gradual replacement of sediment fences commencing around the DDG plant	Effective sediment controls provide an important barrier to prevent pollution of nearby waterways during storm events.
Update truck driver induction to include requirement to not track dirt onto the public road network	Existing induction appears to have been effective to date, however there exists an opportunity to more clearly articulate the requirements for not tracking dirt onto the public road network.
Ensure that silencers are cleaned and maintained properly on the Gluten Dryer discharge outlets as recommended in August 2015 report.	Infrequent cleaning of the silencers has resulted in an exceedance of the noise limits for the approval.
Keep records of all inductions to evidence staff and contractors are given this information	This is an important means of evidencing ongoing compliance with the training and awareness requirements of the approval (and management system).

APPENDIX.A Audit Tables

Table 7. Schedule 2 – Administrative Conditions

Cond	Requirement	Interviews and Inspections	Documentation viewed	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	<p>No aspects of the operations reviewed during the course of the audit were considered to have the potential to cause harm to the environment.</p> <p>It is also noted that the Proponent has complied with updated requirements for improved odour controls and paving trafficked areas as the project has progressed. The auditor also notes that whilst housekeeping on the site was generally good, management of used storage containers and chemical drums required improvement.</p>

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
					<p>One unpaved area to the northwest of the site is currently being used to store used containers and drums and requires attention. A stormwater detention basin in this area also requires upgrade.</p> <p>Opportunity for Improvement: Ensure all chemicals are stored in bunded areas regardless of whether they are stored within the broader internal drainage system that drains to the waste water treatment plant.</p>
2	<p>2. The Proponent shall carry out the project in accordance with the:</p> <p>a) EA and associated site plans (see Appendix 2);</p> <p>b) amended modification proposal MP 06_0228 MOD 1 prepared by ME Engineering Pty Ltd and dated 21 December 2010;</p>		Viewed the <i>Fastrack</i> system used to manage compliance which included an audit program management module and management plan review module. Notifications for milestone dates were emailed to the responsible staff members.	C	Notwithstanding a number of minor non-compliances found during the audit, the auditor considers the Proponent to have carried out the project generally in accordance with the requirements listed.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<p>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 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>	 			

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<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) statement of commitments.</p>				
3	If there is any inconsistency between the above, the conditions of this approval shall prevail to the extent of any inconsistency.			C	There were no inconsistencies
4	<p>4. The Proponent shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:</p> <p>a) any reports, plans, strategies, programs or correspondence that are submitted in accordance with this approval; and</p> <p>b) the implementation of any actions or measures contained in these reports, plans, strategies, programs or correspondence.</p>	<p>Quality Assurance & Environmental Coordinator:</p> <p><i>There were no additional requirements issued by the Secretary (not covered elsewhere in this approval).</i></p>	Complied with for 2013 audit. No additional requirements triggered this audit.	C	Complied with for 2013 audit. No additional requirements triggered this audit.
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.		Complied with for 2013 audit. No additional requirements triggered this audit.	C	Complied with for 2013 audit. No additional requirements triggered this audit.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
6	<p>6. (1) The Proponent must not produce on site: a) more than 400,000 tonnes of industrial grade flour per year; and 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 Director – General 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 Director General is satisfied that odour controls will be adequate for such an increase.</p>		<p>Viewed annual production data for flour and ethanol for: - 2013/2014; - 2014/2015; - 2015 to date</p> <p>All data reported was within the limits stipulated in the condition.</p>	C	Production of flour and ethanol was within the limits of the approval
7	<p>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> <p>a) the mandatory odour controls listed in Appendix 3 to this Approval have been implemented; and</p>		<p>Complied with for 2013 audit. No additional requirements triggered this audit.</p> <p>Letter from Department of Planning and Infrastructure dated 4th June 2012 granting approval to increase production to 300 million viewed in 2013 audit.</p>	C	Complied with for 2013 audit. No additional requirements triggered this audit.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<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>				

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<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> <ul style="list-style-type: none"> a) must assess the effectiveness of the mandatory odour controls required under this approval; and b) may assess the effectiveness of implementing additional odour controls (such as those listed in Appendix 3). <p>(4) In deciding whether to approve an increase in ethanol production under this condition, the Secretary must –</p> <ul style="list-style-type: none"> a) assess the odour performance of the premises at its current rate of production; and b) assess the likely odour impacts from the proposed increase; and 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. 				

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
8	<p>The Proponent shall ensure that all new buildings and structures on the site are constructed in accordance with the relevant requirements of the BCA.</p> <p>Notes:</p> <ul style="list-style-type: none"> • Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works. • Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 		<p>Viewed Construction Certificate "Civil Works - Piles, Slab and Columns (Ground Floor)" by Accredited Building Certifiers, dated 11/2/2016</p> <p>Viewed letter from Ben Harrison, Acting Director Compliance NSW Planning and Environment "Shoalhaven Starches MP 06_0228 - Breach of Section 125(1) of the Environmental Planning and Assessment Act 1979" describing the investigation into, and subsequent issuing of an infringement notice for, construction of four silos and associated infrastructure not shown in approved plans and without a construction certificate.</p> <p>Viewed email dated 17 March 2016 from Mark Manion, Project Manager to Kristie Lissenden at Shoalhaven Council requesting an extension of time to submit all the information required to support the Building Certificate Application.</p> <p>Viewed email from Kristie Lissenden to Mark Manion dated 17 March 2016 approving extension of time for submission.</p>	NC	Construction certificates were not obtained prior to the construction of four silos on site.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
8A	<p>8A. 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>			NF	Not audited this audit
8B	<p>8B. 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 Construction Certificate "Civil Works - Piles, Slab and Columns (Ground Floor)" by Accredited Building Certifiers, dated 11/2/2016</p> <p>Viewed letter from Ben Harrison, Acting Director Compliance NSW Planning and Environment "Shoalhaven Starches MP 06_0228 - Breach of Section 125(1) of the Environmental Planning and Assessment Act 1979" describing the investigation into, and subsequent issuing of an infringement notice for, construction of four silos and associated infrastructure not shown in approved plans and without a construction certificate.</p>	NC	Documentation was not obtained within three months of the date of approval of MOD 5

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
			Viewed email dated 17 March 2016 from Mark Manion, Project Manager to Kristie Lissenden at Shoalhaven Council requesting an extension of time to submit all the information required to support the Building Certificate Application. Viewed email from Kristie Lissenden to Mark Manion dated 17 March 2016 approving extension of time for submission.		
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.	Quality Assurance & Environmental Coordinator: <i>Demolition works were carried out by All Construction Engineering ACE and asbestos removal by P&D Envirotech.</i>	Viewed quote from All Construction Engineering P/L for demolition work in compliance with AS2601. Viewed Purchase Order for All Construction Engineering P/L for demolition work in compliance with AS2601 "and all other statutory requirements and relevant permits" Viewed Demolition Licence for All Construction Engineering P/L dated 13 August 2014 Viewed Notification Summary for P&D Envirotech Pty Ltd dated 24 August 2015 for Non-friable asbestos removal work Viewed Friable Asbestos Removal Licence for P&D Envirotech Pty Ltd valid to 29 March 2017	C	Demolition work was carried out in accordance with the requirements of this condition
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.		Viewed Demolition Licence for All Construction Engineering P/L dated 13 August 2014	C	Demolition work was carried out in accordance with the requirements of this condition

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
9B	<p>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:</p> <p>(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.</p>		<p>Viewed Greencap NAA Asbestos Clearance Certificate for "Moore House Building" dated 7 December 2015 certifying work completed by P&D Envirotech Pty Ltd has ensured the site is free from asbestos.</p> <p>Viewed Asbestos Waste Tracking Docket for 3 December 2015 and 7 December 2015 for material disposed of at Jacks Gully Landfill which is licensed to receive asbestos waste. Viewed corresponding delivery dockets from SITA Jacks Gully for asbestos disposal.</p>	C	Asbestos was managed in accordance with the requirements of this condition
10	<p>10. 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; b) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and 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 Plan viewed in 2013 audit.</p>	C	Complied with for 2013 audit. No additional requirements triggered this audit.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
11	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.	<p>Maintenance Strategist: <i>The system we run is called MainPac. It logs and schedules all maintenance and repair activities for the plant.</i></p> <p><i>The Maintenance Supervisor, schedules all planned maintenance on a weekly basis. The planned activities are printed each week and issued to the relevant staff members to action.</i></p> <p><i>When there is an issue a staff member raises a work request, which, when approved, becomes a work order. This is subsequently added to the planned maintenance system, or scheduled urgently if required.</i></p>	<p>Viewed MainPac system, including Asset Index Structure.</p> <p>Viewed example Maintenance Work Order for: - "Open motor grease ports and purge motor bearing grease" dated 30 March 2016. - "Inspect No.1 G/Dryer Sprockets, Chains Belts and pulleys ET" dated 11 March 2016 - "Annual Inspection of No 6 Gluten Dryer Particle Obscuration Meter" registered 17 March 2016 and completed 23 March 2016 - "hypo leak" urgent order registered 1 January 2016 and completed 23 February 2016 - "Monthly Inspection of No 6 Gluten Dryer Particle Obscuration Meter" registered 12 February 2016 and completed 15 February 2016 - "Inspect boiler 5 & 6 Letdown Valves and Steam Traps on the Main Steam Headers" registered 28 March 2016 and completed 30 March 2016.</p> <p>All work orders generally include instructions and work plan notes and are marked up by the staff who action them with notes on the outcome of the work.</p>	C	<p>Plant and equipment was considered to be maintained in proper and efficient condition.</p> <p>Observation: With the exception of the work order for the sodium hypochlorite leak, all orders that were sampled were closed out within a reasonable period. No information was provided on the completed form to indicate the reason for the delay in closing out the urgent work order.</p>
12A	12A. With the approval of the Secretary, the Proponent may: a) submit any strategy, plan or program required by this approval on a progressive basis; and/or b) combine any strategy, plan or program required by this approval.	<p>Quality Assurance & Environmental Coordinator: <i>No strategies of plans were submitted on a progressive basis during the audit period.</i></p>		NF	Not triggered this audit.

Cond	Requirement	Interviews and Inspections	Documentation viewed	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"> • 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. • There must be a clear relationship between the strategy, plan or program that is to be combined. 			NF	Not triggered this audit
13	<p>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.</p>		Complied with for 2013 audit. No additional requirements triggered this audit.	C	Complied with for 2013 audit. No additional requirements triggered this audit.
14	<p>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.</p>			NF	Not triggered this audit

Table 8. Schedule 3 – Specific Environmental Conditions

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
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.	Quality Assurance & Environmental Coordinator: <i>There were no notices issued for emission of offensive odours during this audit period</i>		C	There were no emissions of offensive odours reported
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.	C	Complied with for 2013 audit. No additional requirements triggered this audit.
3	3. The Proponent shall implement additional mandatory odour controls as may be directed by the Secretary, arising from the Department's 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.	Quality Assurance & Environmental Coordinator: <i>The Secretary has not directed any additional mandatory odour controls in the audit period</i>		NF	There were no additional requirements directed by the Secretary
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.	C	Complied with for 2013 audit. No additional requirements triggered this audit.
3B	Should the Proponent opt to install a DDG pelletising plant as identified in the additional odour controls in Appendix 3 the plant must		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	C	The requirements of this condition are being met.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	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.		disperse odorous airstreams from the approved DDG pelletising plant pending compliance with stack design requirements and discharge parameters. Viewed MOD 4 and MOD 5 project approvals issued by the Department of Planning and Environment which give demonstrate satisfaction of the Secretary (pending compliance with the approval modifications).		
3C	Deleted				
4	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.		Amended 'Odour Management Plan' dated April 2014 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. Letter from Department of Planning dated 19th May 2011, granting approval of the original plan viewed in 2013 audit.	C	The plan is being implemented.
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.		Amended 'Odour Management Plan' dated April 2014 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.	C	Planning approval for the Odour Management Plan has been obtained.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
5	<p>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:</p> <p>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 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>Viewed: "Shoalhaven Starches - Independent Odour Audit - 2013 Reporting Period" by SLR dated 6th February 2014 "Shoalhaven Starches - Independent Odour Audit - 2014 Reporting Period" by SLR dated 31st October 2014 "Shoalhaven Starches - Independent Odour Audit - 2015 Reporting Period" by SLR dated 30th July 2015</p> <p>a) The NSW EPA and NSW Department of Planning and Infrastructure were consulted to seek approval of auditor and to review all reports. b) The audit includes concluding statements on the effectiveness of odour controls c) The audits reviewed production data and complaints d) The audits reviewed the OMP e) The audits measured key odour sources and compared to the GHD baseline f) The audits provided an assessment of compliance g) The audits made recommendations for improvement</p>	C	<p>Annual Independent Odour Audits have been prepared. NSW EPA and the NSW Department of Planning and Infrastructure were consulted throughout the process and approved odour mitigation measures implemented.</p>
6	<p>Within 6 weeks of the completion of this audit, the Proponent shall submit a copy of the audit</p>		<p>Viewed 2013 Audit - Email dated 12 February 2014 sent to Julian Thompson (EPA) with 2013</p>	C	<p>Audit reports were submitted to NSW EPA</p>

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	report to both EPA and the Department with a response to any recommendations contained in the audit report.		<p>Independent Odour Audit dated 6 February 2014 and email sent to Planning 6th of March 2014 containing EPA comments and approval.</p> <p>2014 Audit - Email dated 31 October 2014 sent to Julian Thompson (EPA) with 2014 Independent Odour Audit dated 31 October 2014</p> <p>2015 Audit - Email dated 31 July 2015 sent to Julian Thompson (EPA) with 2015 Independent Odour Audit dated 31 July 2015</p> <p>2013 Audit - Email dated 7 February 2014 sent to Chris Ritchie (DPE) with 2013 Independent Odour Audit dated 6 February 2014</p> <p>2014 Audit - Email dated 31 October 2014 sent to Chris Ritchie (DPE) with 2014 Independent Odour Audit dated 31 October 2014</p> <p>2015 Audit - Email dated 31 July 2015 sent to Chris Ritchie (DPE) with 2015 Independent Odour Audit dated 31 July 2015</p>		and DPE within 6 weeks of completion.
6A	<p>6A. The Proponent shall ensure that any Independent Odour Audit submitted to the Secretary in accordance with Condition 5 of this Schedule includes:</p> <p>a) 3 monthly (quarterly) odour monitoring with samples taken from the carbon dioxide/ethanol recovery scrubber inlet/s and outlet/s; and</p> <p>b) quarterly odour monitoring with samples taken of single vent stack (direct to atmosphere) emissions from a filling fermenter tank.</p>		<p>Viewed:</p> <p>Quarterly Odour Monitoring Reports by Stephenson Environmental Management Australia</p> <p>"EPL ODOUR EMISSION SURVEY ANNUAL & QUARTER 1, 2015-2016" issued 13 MAY 2015</p> <p>"EPL ODOUR EMISSION SURVEY ANNUAL & QUARTER 2, 2015-2016" issued 28 OCTOBER 2015</p> <p>"EPL ODOUR EMISSION SURVEY ANNUAL & QUARTER 3, 2015-2016" issued 24 NOVEMBER 2015</p>	C	Odour Audits have been submitted to planning and contain relevant monitoring results. Separate Odour Monitoring Reports have also been viewed.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
			<p>"EPL ODOUR EMISSION SURVEY ANNUAL & QUARTER 4, 2015-2016" issued 29 FEBRUARY 2016</p> <p>Letter from Azmeena Kelly (Planning) 18th of February 2014 stating the Odour Audit 2013 is approved on the condition that evidence is provided of consultation with the EPA and resolution of any concerns raised by the EPA - email sent 6th of March 2014 with EPA comments and approval.</p> <p>Letter from David Mooney (Planning) 22nd of April 2015 stating that the Odour Audit 2014 satisfies conditions 5, 6, and 6A of Schedule 3 and is approved.</p> <p>Letter from Chris Ritchie (Planning) 12th of November 2015 stating that the Odour Audit 2015 satisfies conditions 5, 6, and 6A of Schedule 3 and is approved.</p>		
6B	<p>The Proponent shall construct, commission and operate the DDG exhaust stack in accordance with the following specifications:</p> <p>a) 49.2 metres in height; b) 1.5 metres in diameter; c) discharge air temperature of 60 degrees Celsius; and d) exit velocity of 12 metres per second.</p> <p>Note: Conditions c) and d) apply unless otherwise prescribed in an EPL for the project.</p>		Viewed "DG Pellet Stack M.S. Arrangement Manildra Group" architectural drawing by Cori & Associates dated June 2015 viewed showing 49.2 m height and 1.5m diameter to exhaust stack	C	Condition a) and b) are met. Condition c) and d) are not yet triggered as stack is not yet operational
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.			NF	Not yet triggered - the plant is not yet operational

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
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.			NF	Not yet triggered - the plant is not yet operational
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.			NF	Not yet triggered - the plant is not yet operational
7	The Proponent shall implement all reasonable and feasible measures to minimise the dust generated by the project.	Minimal dust observed on site - temporary carpark covered in shale surface. NO complaints regarding dust were received during the audit period	Viewed "Demolition Dust Management Plan" (DMP) dated 19 October 2015 and prepared by Environment and Natural Resource Solutions which included a range of mitigation measures to be implemented during demolition (occurred prior to site component of audit).	C	Dust is being effectively managed on site.
8	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.	No construction on site during audit.	Viewed Truck Driver Site Safety Induction dated 5 May 2015. Includes points: - Ensure your load is restrained as per load restraint guidelines. - All loads are to be securely covered and all spillages are to be cleaned up before leaving the site. Failure to do so may lead to you being banned from the site. - Please report all spills, noise or water contamination immediately to our operators –NO MATTER HOW SMALL. Viewed "Dust Management Plan" which included the following mitigation measures:	C	Measures are in place to meet the requirements of this condition. Recommendation for improvement: Update truck driver induction to include requirement to not track dirt onto the public road network

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
			<p>- Loads are to be covered before leaving the site boundary.</p> <p>- The frequency of watering for dust suppression shall be increased as required to manage dust potential during periods of wind, heat and drying to ensure no visible dust leaves the site boundary.</p> <p>The auditor notes that no complaints of dirt being tracked onto the road were received in the audit period.</p>		
9	9. The Proponent shall ensure that the emissions from the combined boiler stacks for Number 5 and 6 Boilers on site comply with the limits in the EPL.		<p>Viewed:</p> <p>Emissions Test Reports for Emission Point 35 Serving Boilers No. 5 & 6.</p> <p>Viewed following sample reports (all reports for the audit period provided):</p> <p>Quarter No. 3, 2013-2014 (issued 29th January 2014)</p> <p>Quarter No. 2, 2014-2015 (issued 29th September 2014)</p> <p>Quarter No. 4, 2015-2016 (issued 29th February 2016)</p> <p>All reports are approved by the NATA signatory.</p>	C	Emissions limits were complied with during the audit period
10	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		<p>Viewed:</p> <p>Viewed "Annual Odour Audits and Quarterly Monitoring Reports" (2013-2015)</p> <p>Letter from Deana Burn, Planning Officer, Industry, Major Development Assessment</p>	C	The Air Quality Monitoring Program is being implemented.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	c) include a program to monitor the ongoing performance of the project.		regarding approval of the above procedure dated 15 September 2009 viewed in 2013 audit.		
10A	The Proponent shall implement the Dust Management Plan included in the EA for MOD 6.	Minimal dust observed on site - temporary carpark covered in shale surface. Quality Assurance & Environmental Coordinator: <i>No complaints regarding dust were received during the audit period</i>	Viewed "Demolition Dust Management Plan" (DMP) dated 19 October 2015 and prepared by Environment and Natural Resource Solutions which included a range of mitigation measures to be implemented during demolition (occurred prior to site component of audit).	C	Dust is being effectively managed on site.
11	The Proponent shall comply with the restrictions in Table 1.			C	Whilst complaints for noise were noted during the audit period, there was no evidence of non-compliance with the restrictions in Table 1 was observed.
12	The Proponent shall ensure that noise from the project does not exceed the noise limits in Table 2.		Viewed the 6 monthly acoustic monitoring reports for: August 2015 April 2015 July 2014 Jan 2014	NC	One instance was recorded at 'Nobblers Lane' (August 2015) in which EPA Noise Limits were not complied with Recommendation: Ensure that silencers are cleaned and maintained properly on the Gluten Dryer discharge outlets as recommended in August 2015 report.
13	During construction, the Proponent shall implement all reasonable and feasible measures to minimise the construction noise impacts of the project.	No construction works were underway during the site visit (construction had commenced on MOD 7), however Quality Assurance & Environmental Coordinator advised that: <i>Contractors are informed of the construction noise management measures</i>	Noise Management Plan dated 7th September 2010 by The Acoustic Group	C	Measures are in place to meet the requirements of this condition. Recommendation for improvement: Keep records of all

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
		<i>through toolbox talks, construction safety plans and environmental management plans.</i>			inductions to evidence staff and contractors are given this information
14	14. The Proponent shall prepare and implement 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 Noise Management Plan dated 7 September 2010 by The Acoustic Group Viewed "Acoustic Compliance Monitoring Shoalhaven Starches Bomaderry" dated 14 April 2015 in response to complaint of a "roaring noise" received by the EPA. Complaint not found to relate to the site. Six monthly monitoring is being undertaken. Letter from Department of Planning dated 19th May 2011, granting approval of the plan viewed in 2013 audit.	C	The requirements of this condition are being met.
14A	The Proponent shall design and construct the relocated starch dryer in accordance with the design specifications included in the EA for MOD 7.			NF	Condition has not yet been triggered
14B	Within 12 months of operation of the relocated starch dryer, the Proponent shall undertake noise validation to confirm that the noise levels comply with the predictions in the EA for MOD 7.			NF	Condition has not yet been triggered
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			NF	Condition has not yet been triggered

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	Condition 2 of Schedule 2, the Proponent shall investigate and implement all reasonable and feasible noise mitigation measures to achieve compliance.				
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.			NF	Condition has not yet been triggered
14E	Within 12 months of operation of the modified flour mill, the Proponent shall undertake noise validation to confirm that the noise levels comply with the predictions in the EA for MOD 8, to the satisfaction of the EPA.			NF	Condition has not yet been triggered
15	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.		Viewed "Final Report Pollution Incident 19/03/14 8.00am to 9.30am" dated 24th of March 2014 by Manildra Group	NC	Starch was discharged to Shoalhaven River on the 19 March 2014
16	16. 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: a) in consultation with DWE and be submitted to the Secretary for approval within 12 months of this approval; and b) in accordance with the Guidelines for Water Savings Action Plans (DEUS 2005) and		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.	C	No updates required since 2013 audit.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	Guidelines for Energy Savings Action Plans (DEUS 2005), respectively.				
17	<p>The Proponent shall store all chemicals, fuels and oils used on site in appropriately banded 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>			NC	Not all chemicals were stored in banded areas during site visit.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
					
18	The Proponent shall ensure that all imported fill is VENM.	Quality Assurance & Environmental Coordinator: 40mm of VENM shale was imported for the MOD 6 temporary carpark from SCCCR Quarries South Nowra		C	All imported fill is VENM
19	<p>19. 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> <ul style="list-style-type: none"> a) be submitted to the Secretary before the commencement of construction on site; b) be prepared in accordance with Landcom's Managing Urban Stormwater: Soils and Construction manual; c) identify the works that could cause soil erosion and generate sediment; d) describe the location, function, and capacity of the erosion and sediment controls that would be implemented; and e) describe the measures that would be implemented to maintain these controls during the construction period. <p>Note: the provisions of this plan shall be implemented for all construction works</p>	<p>The sediment control barriers around the temporary car park were inspected and working effectively.</p>  <p>Some of the sediment fences around the storage and DDG Pelletiser Plant were somewhat worn</p>	<p>Erosion and Sediment Control Plan dated 22nd of June 2015 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>	C	<p>The Plan is being implemented.</p> <p>Recommendation: Whilst still generally intact and functional, a number of areas on the site contained sediment fencing that was in need of replacement. Auditor recommends a program of gradual replacement of sediment fences commencing around the DDG plant</p>

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	associated with the project and/or modification approved thereafter.				
19A	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.	Photo evidence provided documenting implementation and confirmed with additional photos / inspection during site visit	Erosion and Sediment Control Plan dated 22nd of June 2015 by John Studdert (Manildra)	C	The Plan is being implemented
20	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).		Complied with for 2013 audit. No additional requirements triggered this audit. Letter from Department of Planning dated 17 April 2009 granting approval for both Site Audit Reports viewed in 2013 audit.	C	Complied with for 2013 audit. No additional requirements triggered this audit.
20A	Prior to the commencement of construction of the works associated with MOD 7, 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.		Viewed Unexpected Finds Protocol prepared by Coffey's dated 24 December 2015	C	Complied
20B	The Proponent shall implement the unexpected finds protocol for the duration of construction of the relocated starch dryer as described in MOD 7.	Quality Assurance & Environmental Coordinator: <i>Excavations complete. No unexpected materials found.</i>		C	Complied

Cond	Requirement	Interviews	Documentation viewed	Status	Comment	
21	<p>21. The Proponent shall prepare and implement an Acid Sulphate Soil Management Plan for the project, as modified. The plan must be prepared in accordance with the Acid Sulphate Soils Manual (Acid Sulphate Soils Management Advisory Committee, 1998), and be submitted to the Secretary for approval prior to the commencement of construction.</p> <p>Note: If a modification does not require an update of the plan listed above, the Proponent shall provide written justification to</p>		<p>Letter from Department of Planning dated 17 April 2009 granting approval for Acid Sulphate Management Plan and Site Contamination Management Letter dated 11 March 2009 viewed in 2013 audit.</p> <p>Letter from Department of Planning (Chris Ritchie) dated 8th of March 2016 giving an exemption for the need to update the Acid Sulphate Soil Management Plan (up to MOD 7).</p>	C	Complied.	
22	<p>22. The Proponent shall prepare and implement 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>Viewed ash being stored at the border of the storage area within 50m of the Shoalhaven River</p> <p>Viewed some chemical and fuel containers stored outside bunded areas.</p> <p>Viewed lockable drain not locked.</p>		<p>Planning approval letter dated 17 September 2009 viewed in previous audit. Latest SMP revision dated 23 June 2015 submitted to Planning on 4 September 2015</p>	C	<p>The Plan is being implemented.</p> <ol style="list-style-type: none"> 1. Recommendations: Store all chemicals in bunded areas as SMP requires 2. Ensure that area surrounding the DDG Pelletiser is swept regularly
22A	<p>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</p>		<p>Viewed "Stormwater Management Plan Temporary Car Park MP 06_0228 MOD 6" dated 7 December 2015 by John Studdert (Manildra) Email from John Studdert (Manildra) to</p>	C	The Plan was submitted as required.	

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	stormwater design, discharge location and pollution control for the temporary car park.		Shoalhaven Council (Planning & Development Services Group) 7 December 2015 with report attached.		
22B	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.	Quality Assurance & Environmental Coordinator: <i>No further correspondence received from Council (approval not required). We have received a construction certificate from the PCA inferring SMP is adequate.</i>	Viewed "PROPOSED STORMWATER PLAN FOR PROPOSED STARCH DRYER #5 Rev 3" by Allen Price & Scarrets dated 11th of Feb 2016 Viewed emails between John Studdert (Manildra) and Andrew Lissendon (Council) showing consultation and feedback during the development of the plan.	C	The Plan was updated as required.
22C	22C. Any excavations undertaken between the starch dryer and Abernathy's Creek shall be supervised by a geotechnical engineer.	Quality Assurance & Environmental Coordinator: <i>No excavations have taken place between the starch dryer and Abernathy's Creek.</i>		NF	not yet triggered
23	23. The Proponent shall ensure runoff and spray from the irrigation of wastewater does not go beyond the boundary of the utilisation areas.	Site visit included a detailed tour around the Environmental Farm, including around the majority of the boundary. There was no evidence of flooding or irrigation water leaving the boundary of the farm.	Viewed Standard Operating Procedures for: - Irrigation with Pivot Irrigators; - Irrigation with Travelling Irrigators; - Pre-Irrigation Checks Included requirements not to irrigate within 40m of the boundaries; no runoff to water courses, drains, boundaries or roadways; no ponding; no runoff	C	Procedures are in place to ensure runoff and spray does not go beyond the boundary of utilisation areas.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
					
24	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.	Quality Assurance & Environmental Coordinator: <i>The EPL does not have impact criteria for any analytes</i>	Viewed "Annual Report 2014" which include annual Soil Monitoring Results (Monitoring Point 43) for 2014. Viewed "Annual Report 2015" which include annual Soil Monitoring Results (Monitoring Point 43) for 2015. The 2015 <i>Annual Surface Soil Testing Program</i> by Cowman Stoddart found that "the pastures are in good condition and are highly productive".	NF	No soil quality impact assessment criteria are outlined in the EPL and the sampling required by the EPL is being undertaken.
25	25. The Proponent shall prepare and implement a Wastewater Management Plan for the project to the satisfaction of the Secretary. This plan must: a) be prepared in consultation with EPA and be submitted to the Secretary for approval within 12 months of this approval; b) be prepared in accordance with DECC's Environmental Guidelines: Use of Effluent by Irrigation; c) outline the location, design and management of the irrigation, crop and grazing system, including measures to minimise soil and groundwater degradation; and		"Shoalhaven Starches Ethanol Upgrade, Wastewater Management Plan, Incorporating OEH Changes" dated August 2011 by Dr. John Murtagh and Glenys Lugg Viewed "Annual Report 2014" which include annual Soil Monitoring Results (Monitoring Point 43) for 2014. Viewed "Annual Report 2015" which include annual Soil Monitoring Results (Monitoring Point 43) for 2015.	C	The Wastewater Management Plan is being implemented

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	<p>d) include:</p> <ul style="list-style-type: none"> • baseline data on soil and groundwater quality and characteristics; • wastewater and soil quality impact assessment criteria and the effluent treatment and irrigation system performance measures; • details of the wastewater, soil, silage and groundwater monitoring program; • procedures for the reporting the monitoring results against the criteria and to determine the annual site nutrient and analyte budgets and water balance; • contingency measures to address exceedances, pollutant triggers and problems with the wastewater management systems; and • a description how the effectiveness of actions would be monitored over time. 		Letter from Department of Infrastructure (undated) granting approval of the Plan viewed in 2013 audit.		
26	<p>26. 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; details of all reasonable and feasible measures that would be implemented to minimise on-site and off-site flooding; procedures for the monitoring, assessment and compensation of any flood impacts caused by the project; a program for contribution toward the ALERT Flood Warning System operated by Council and</p>	<p>Quality Assurance & Environmental Coordinator:</p> <p><i>Sandbags are purchased when a likely flood event is identified - sandbags are not kept onsite as they deteriorate. (some sandbags are stored & maintained on-site for spill management</i></p>	<p>Viewed "Flood Mitigation & Management Plan" dated 2nd March 2016 by Manildra Group</p> <p>As per previous plan, the FMMP includes b):</p> <ul style="list-style-type: none"> • baseline data on local and regional flooding and flood impacts, Section 6.2 • mitigation measures, Section 8 • procedures for monitoring etc., Section 3.2 • program for ALERT flood warning system, Section 5 <p>The plan does not include:</p> <ul style="list-style-type: none"> • procedures for collaboration and coordination with the paper mill, Section 3.4 <p>Email from Ailsa Schofield (Council) dated February 2016 giving comments on the FMMP Email from John Studdert to Chris Ritchie (Planning) on 2 March 2016 containing FMMP</p>	C	The Plan has been updated and provided to the Secretary.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	the Bureau of Meteorology; and procedures for collaboration and coordination with the paper mill with respect to flood emergency planning.		Letter from the Department of Planning And Infrastructure dated 28 September 2011, granting conditional approval for the Plan viewed in 2013 audit.		
27	27. Within 12 months of this approval, the Proponent shall: a) upgrade the three accesses to the site off Bolong Road (marked in color on the map in Appendix 5); and b) clear and profile the road verges at the intersection of the site's access road and Hannigan's Lanes, to the satisfaction of Council and the RTA. Note: Site accesses referred to in this condition are illustrated by the figure in Appendix 5.	Quality Assurance & Environmental Coordinator: <i>Works complete, plans submitted to Council for approval on 22 August 2013. During a site visit by Andrew Lissenden from Council in February 2016 he indicated a response will be provided to SS on the status of Conditions 27 & 31.</i>		NF	Not audited this audit
27A	27A. The Proponent shall provide works-as-executed plans to the Secretary and Council for: a) the road upgrade works completed in accordance with condition 27, no later than 31 October 2012; and b) the intersection upgrade works required by condition 27B, within 1 month of completion of the upgrade works, to the satisfaction of Council and RMS.	Quality Assurance & Environmental Coordinator: <i>The plans were handed over in the meeting on 22-8-2013 with Council</i>	Viewed letter from Manildra to Shoalhaven City Council dated 23 August 2013 confirming that the plans were handed to Council in a meeting (held the previous day)	C	The plans were provided to the Secretary and Council as required.
27B	27B. Prior to operation of the car park described in MOD 3, the Proponent shall complete the following upgrades in accordance with Austroads Guide to Road Design – Part 4a: Unsignalised and Signalised Intersections: a) upgrade the right turn in to the 'Dairy Farmers' site from Bolong Road to a Channelised Right (CHR) intersection; and b) upgrade the left turn in to the 'Dairy Farmers' site from Bolong Road to an Auxiliary	Quality Assurance & Environmental Coordinator: <i>Car park not yet built. Works as per a) & b) complete, executed plans submitted for approval to Council as per Condition 27A.</i>		C	

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	Right (AUL), to the satisfaction of Council and RMS.				
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.	Quality Assurance & Environmental Coordinator: <i>The plans were handed over in the meeting on 22 August 2013 with Council</i> <i>No approval received During a site visit by Andrew Lissenden from Council in February 2016 he indicated a response will be provided to SS on the status of Conditions 27 & 31.</i>	Viewed letter from Manildra to Shoalhaven City Council dated 23 August 2013 confirming that the plans were handed to Council in a meeting (held the previous day)	NC	The access point was removed. However, no evidence of Council satisfaction was received. Recommendation for improvement: Follow up with Council for final sign off on condition requirement
27D	27D. The Proponent shall ensure that the existing access point for the relocated starch dryer no. 5 is designed to accommodate the largest vehicle. If maneuvering areas for the largest vehicle impact on existing car parking spaces, these spaces must be relocated within close proximity to the relocated starch dryer, to the satisfaction of Council.		Viewed Traffic Impact Assessment dated October 2015 which concluded that "the works associated with the Modification - would have no significant impact on the local or on-site traffic environments"	C	The requirements of this condition are being met.
28	28. Prior to the commencement of operations at the proposed packing plant, the Proponent shall: a) construct the proposed left turn only access to the packing plant site from Bolong Road with appropriate physical barriers and signage; b) provide alternative access arrangements for the vehicles from the adjoining Shoalhaven Water site, and dedicate any land additional land required for these alternative access arrangements to Council as a road reserve; and c) upgrade the access from the packing plant site to Railway Street; and d) construct the proposed bridge over			NF	Not triggered yet - packaging plant not constructed

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	Abernethy Creek, to the satisfaction of Council and the RTA.				
29	29. Prior to the commencement of construction on the proposed packing plant site, the Proponent shall prepare a Construction Traffic Management Plan for the construction works on site to the satisfaction of Council.			NF	Not triggered yet - packaging plant not constructed
30	<p>30. Within 12 months of this approval, the Proponent shall:</p> <p>a) provide a 1.2 metre pedestrian pathway along the southern boundary of Bolong Road between the Central Access Point (see map in Appendix 5) and the western boundary of Lot 62 DP 1078788;</p> <p>b) provide a pedestrian refuge on Bolong Road between the factory and the: CO2 gas plant; and the proposed packing plant; and</p> <p>c) upgrade the street lighting along Bolong Road, in accordance with AS/NZS 1158: Lighting for Roads and Public Spaces to ensure that the pedestrian pathways, including the bridge over Abernethy Creek, and refuges are suitably lit after dark, to the satisfaction of the Council.</p> <p>Note: The pedestrian pathway over Abernethy Creek must be designed and constructed in accordance DWE's Guidelines for Controlled Activities – Watercourse Crossings, dated February 2008.</p>		Works completed, viewed in previous audit as compliant.	C	Complied
30A	<p>Pedestrian Access from Car Park (MOD 3)</p> <p>30A. The Proponent shall provide a formal pedestrian access from the car park described</p>	<p>Quality Assurance & Environmental Coordinator: <i>Car park not built.</i></p>		NF	not yet triggered

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	in MOD 3 to the existing pedestrian footpath adjacent to Bolong Road, as shown on the plans in Appendix 2C. The pedestrian access shall be: a) completed prior to operation of the car park; b) designed in consultation with Council; and c) appropriately lit in accordance with the requirements of condition 30c).				
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.		Viewed letter to Council dated 23 August 2013 requesting approval for existing car parking on site. During a site visit by Andrew Lissenden from Council in February 2016 he indicated a response will be provided to SS on the status of Conditions 27 & 31.	NC	Council approval not yet obtained for parking on site
32	32. The Proponent shall ensure that vehicles associated with the project do not park or queue on the public road network at any time.	Quality Assurance & Environmental Coordinator: Drivers are made aware of these <i>requirements through signage on the road and site inductions</i>		C	No vehicles were observed parking or queuing on public roads during the audit.
33	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.	Quality Assurance & Environmental Coordinator: <i>Drivers are made aware of these</i>	Viewed Truck Driver Site Safety Induction dated 5 May 2015.	C	Controls are in place to ensure this requirement is being met.

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
		<i>requirements through signage on the road and site inductions</i>	Includes map showing correct truck routes during two operating hour scenarios		
34	34. Within 12 months of this approval, the Proponent shall undertake an assessment of the safety of the rail level crossing of Bolong Road, in consultation with the RTA, Council, NSW Rail Level Crossing Unit and the Independent Safety and Reliability Regulator, and to the satisfaction of the Secretary.		Works completed, viewed in previous audit as compliant.	C	Not audited this audit
35	35. The Proponent shall implement all reasonable and feasible recommendations in the rail level crossing safety assessment to the satisfaction of the Secretary.			NC	Secretary approval has not been obtained (not followed up from last audit)
35A	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.	b) only light vehicles were in the temporary car park during the site visit d) the car park was not being used for storage of plant, equipment or materials during the site visit		NC	Council approval has not been obtained
35B	35B. The Proponent shall ensure that access to Shoalhaven Water's pumping station is maintained at all times.	Quality Assurance & Environmental Coordinator: <i>The car park was built to the north of the pump station. Access to pump station not impeded.</i>		C	Complies

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
36	<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):</p> <p>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 implemented to the satisfaction of Fire and Rescue NSW;</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>c) A Final Hazard Analysis for the Project as</p>	<p>Quality Assurance & Environmental Coordinator: <i>Pre-construction studies have been submitted for the various mods</i> <i>MOD 8 removed previous conditions 36, 37, 37A, 37B, 38, 39A, 39B, 39D & 39E with new consolidated 'as modified' conditions 36 & 37.</i></p>	<p>a) Viewed letter from Chris Ritchie, DPE to Shoalhaven Starches dated 31 March 2015 approving the Fire Safety Study for Mod 4.</p> <p>Viewed letter from Simon Bracht (NSRFS) to Shoalhaven Starches dated 19 June 2015 requiring additional measures be put in place prior to approval.</p> <p>b) "HAZOP Study Report, Alterations to Existing Flour Mill, Rev. D" dated 7 March 2016 by Pinnacle Risk Management Pty Ltd Email to Chris Ritchie and Deana Burn (Planning) on the 8th of March 2016 submitting the above report for approval. Viewed letter from Carolyn McNally, DPE to Shoalhaven Starches dated 14 November 2014 approving the pre-construction studies for Mod 2 and Mod 4.</p> <p>Letter from Chris Ritchie, DPE to Shoalhaven Starches dated 22 March 2016 approving the HAZOP report dated 16 February 2016.</p> <p>Letter from Jeanna Bakopanos, DPE to Shoalhaven Starches dated 14 April 2014 approving the HAZOP reports dated 20 December 2014 and (supplementary) 11 February 2015.</p> <p>c) Letter from Chris Ritchie, DPE to Shoalhaven Starches dated 1 October 2015 approving the FHA for the fermenters and ethanol distillery.</p> <p>Letter from Chris Ritchie, DPE to Shoalhaven Starches dated 3 February 2016 approving the FHA for the DDG Pelletising Plant Rev C</p>	C	Studies submitted as required

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	<p>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"> • report on the implementation of the recommendations of the Preliminary Hazard Analysis; • re-evaluate and reconfirm the relevant data and assumptions from the Preliminary Hazard Analysis; and • re-evaluate and reconfirm all control measures for prevention and mitigation of incidents; and <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>"Final Hazard Analysis, Alterations to Existing Flour Mill, Rev. C" dated 7 March 2016 by Pinnacle Risk Management Pty Ltd</p> <p>Email to Chris Ritchie and Deana Burn (Planning) on the 8 March 2016 submitting the above report for approval</p> <p>d) "Construction Safety Study Report, Alternations to Existing Flour Mill" dated 6 March 2016 by Pinnacle Risk Management Pty Ltd Email to Chris Ritchie and Deana Burn (Planning) on 7 March 2016 with above report attached for approval.</p> <p>Letter from the Department dated 17th April 2009, granting approval for the study subject to the submission of an addendum covering the commissioning process of Stage 1 viewed in 2013 audit.</p> <p>Viewed letter from Chris Ritchie, DPE to Shoalhaven Starches dated 31 March 2015 approving the Fire Safety Study for Mod 4.</p> <p>Viewed Letter from Department of Planning dated approx 21 September 2009 approving (originally undated but subsequent email issued providing estimated date) (Transport of Hazardous Materials Plan) in 2013 audit.</p> <p>Letter from Department of Planning dated 8 April 2010 approving Emergency Plan as per Order viewed in 2013 audit.</p>		
37	37. The Proponent shall develop and implement the plans and systems set out	Quality Assurance & Environmental Coordinator:	Viewed letter from Carolyn McNally, DPE to Shoalhaven Starches dated 14 November 2014	C	Studies submitted as required

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	<p>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> <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>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>c) Safety Management System updated to include the Project as modified and maintained</p>	<p><i>Pre-construction studies have been submitted for the various mods</i> <i>MOD 8 removed previous conditions 36, 37, 37A, 37B, 38, 39A, 39B, 39D & 39E with new consolidated ‘as modified’ conditions 36 & 37.</i></p>	<p>approving the pre-construction studies for Mod 2 and Mod 4.</p> <p>a) Letter from Department of Planning dated approx. 21 September 2009 approving Transport Of Hazardous Materials Plan viewed in 2013 audit.</p> <p>b) Letter from Department of Planning dated 8 April 2010 approving Emergency Plan viewed in 2013 audit. Viewed letter from David Mooney, DPE to Shoalhaven Starches dated 28 September 2015 approving the updated Emergency Plan for the DDGS Pelletising Plant.</p> <p>c) Letter from Department of Planning dated 30 June 2011 approving SMS. Viewed letter from Chris Ritchie, DPE to Shoalhaven Starches dated 18 February 2016 approving updated SMS (dated 13 October 2015).</p>		

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	<p>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. The Safety Management System shall be prepared in accordance with the Department of Planning's Hazardous Industry Planning Advisory 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>				
38	<p>38. 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</p>	<p>Quality Assurance & Environmental Coordinator: <i>Previously condition 39B, updated by MOD 8 approval to Condition 38 with October 2016 date added.</i></p>	<p>Hazard Audit Report 2013 submitted to Planning on 27 March 2014. Planning approval letter dated 17 June 2014.</p>	C	

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	the implementation of a recommendation, reasons must be documented.				
39	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 36 to 38 inclusive, within such time as the Secretary may agree.	Quality Assurance & Environmental Coordinator: <i>The next audit is due by the end of October this year.</i>	Viewed "Hazard Audit Report" submitted 27 March 2014 and approval of the report dated 19 June 2014 Viewed "Hazard Audit report" submitted 29 January 2016	C	Complies
40	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.	Quality Assurance & Environmental Coordinator: <i>No waste is received on site</i> <i>We used some road-base material excavated from near the DDG Pellet Plant as base for the temporary car park, with imported gravel over the top (as previously advised).</i> <i>Test results as per NSW EPA Resource Recovery Order – Excavated Natural Material (ENM).</i>	Viewed tests results (including chain of custody) for samples of excavated material used as base for temporary car park.	C	No waste was received from off site
40A	40A. The Proponent shall ensure that the use of any waste, including steel mill slag, is in accordance with the requirements of a Resource Recovery Order and Exemption issued under the Protection of the Environment Operations (Waste) Regulation 2014.	Quality Assurance & Environmental Coordinator: <i>Materials meeting VENM & ENM RRO's used instead of steel mill slag on MOD 6 car park.</i>	Viewed Chain of Custody and Certificate of Analysis for soil samples 14 January 2016.	C	Complies

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
					
41	<p>41. The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>a) be submitted to the Secretary for approval within 3 months of this approval;</p> <p>b) identify the various waste streams of the project;</p> <p>c) describe what measures would be implemented to reuse, recycle or minimise the waste generated by the project; and</p> <p>d) include a program to monitor the effectiveness of these measures.</p>	<p>Viewed a sample of bins and found low contamination across waste streams.</p> 	<p>Viewed "Shoalhaven Starches Environmental Procedure - Waste Management Plan" dated 15 March 2016</p> <p>b) the plan identifies the main waste streams</p> <p>c) the plan includes a plan for management of waste</p> <p>d) the plan includes a program for monitoring</p> <p>Requested and viewed waste tracking records for May 2015:</p> <ul style="list-style-type: none"> - Invoice from Suez for general waste collection (Dairy farm, DDG, fermenters) - invoice from Suez for monthly site fee <p>Requested and viewed waste tracking records for June 2014:</p> <ul style="list-style-type: none"> - Invoice from Suez for general waste collection , plastic collection (Dairy farm, DDG, fermenters) - invoice from Suez for monthly site fee. <p>Letter from Department of Planning undated (advised September 2009 by Shoalhaven Starches) approving the Plan but noting concerns over volumes of some materials viewed in 2013 audit.</p>	C	<p>The WMP is being implemented.</p> <p>Recommendation: Consider undertaking a waste audit or some other task appropriate for measuring the effectiveness of waste management measures in place and identifying any opportunities for improved processes.</p>

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
42	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.	Quality Assurance & Environmental Coordinator: <i>There have been no changes to the lighting since the last audit.</i>		NF	Not triggered this audit period
42A	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.	Quality Assurance & Environmental Coordinator: <i>No LED lighting to be installed</i>		NF	No LED lighting to be installed on tall structures
43	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, Abernethy's Creek and Broughton Creek on the site; - manage weeds in the vicinity of the riparian zones;		Viewed 2015 Annual Reports which included report on landscaping and vegetation works for the year as required in the LMVP. Letter from Department of Planning dated 8 April 2010 approving subject to submission of annual reports detailing implementation of the plan viewed in 2013 audit.	C	Complies

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	<ul style="list-style-type: none"> - 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. 				
43A	<p>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:</p> <ul style="list-style-type: none"> a) be undertaken every three months from February 2016 for a period of 12 months; 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>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>		"Results of Monitoring Survey of Rock Revetment Wall at Bolong Road" by Allen Price & Scarratts dated 30th of March 2016	C	The first quarterly survey for 2016 has been undertaken
43B	. 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.	Quality Assurance & Environmental Coordinator: <i>The engineer will be engaged once the four studies have been completed</i>		NF	Not yet triggered
44	<p>44. The Proponent shall, to the satisfaction of the Secretary, ensure that:</p> <ul style="list-style-type: none"> 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 		Viewed 2015 & 2014 Annual Environmental Management Plan which included report on landscaping and vegetation works for the year as required in the LMVP	C	Works are being undertaken as required

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	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.				
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.		Viewed "Compliance Audit Report" 29 May 2015 by Department of Planning & Environment - two non-compliances identified: - failure to submit VMP by the end of April 2013; and - failure to provide adequate on-site parking compliant with the Australian Standards Email from Chris Schultz (Department of Environment & Planning) containing above audit report "Landscape & Vegetation Management Plan" (not dated) by Manildra Group submitted to Planning 31 July 2015 "Landscape and Vegetation Management Plan" by Coffey dated 26 May 2009 "Manildra Group Landscape Screen Site Plan" for MOD 2 dated April 2012 by Peter Phillips Landscape Architecture "Manildra Group Landscape Screen Planting Site Plan" for MOD 3 dated May 2012 by Peter Phillips Landscape Architecture	NC	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
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		Letter from Chris Ritchie (Planning) dated 3 March 2016 stating that evidence submitted to the Secretary meets the requirements for Condition 46	C	Secretary approval obtained as required

Cond	Requirement	Interviews	Documentation viewed	Status	Comment
	that the Landscape Plan/s in Appendix 2B have been fully implemented.				
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 Principal Certifying Authority dated 15 October 2015 confirming that the materials of construction "for the sections of the facility visible from outside the site boundaries (stack, silos) are constructed from non-reflective material where possible.	C	Complies
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 to Airservice Australia (info@airserviceaustralia.com) on 28 October 2015 containing as-constructed plans for the DDG exhaust stack: -"Pellet Mill Plain View As Built - MN253-025" dated 15 October 2015 -"Pellet Mill Western Elevation As Built - MN253-024" dated 15 October 2015	C	As-constructed plans were sent to Airservice Australia within 1 month of construction of the DDG stack
49	One month following the completion of construction of the starch dryer described in MP 06_0228 MOD 7, the Proponent shall provide as-constructed details to Airservices Australia.	Quality Assurance & Environmental Coordinator: <i>The following conditions for MOD 7 have not been triggered yet: Condition 49: not constructed yet</i>		NF	Not triggered yet
50	One month following the completion of construction of the modified flour mill described in MP 06_0228 MOD 8, the Proponent shall provide as-constructed details to Airservices Australia.			NF	Not triggered yet

Table 9. Schedule 4 – Environmental Management, Reporting and Auditing Conditions

Cond	Requirement	Interviews and Inspections	Documentation viewed	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"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; • manage cumulative impacts; and • respond to emergencies; and <p>d) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the project.</p>		Viewed in previous audit, approved by Planning in September 2009. EMS updated on 20 July 2015 and submitted to Planning on 4 September 2015.	C	Complies

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
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>"Final Report Pollution Incident 19/03/14 8.00am to 9.30am" dated 24th of March 2014 by Manildra Group - The following agencies were notified immediately:</p> <ul style="list-style-type: none"> - NSW EPA - Public Health - WorkCover - Fire and Rescue - Department of Planning - Shoalhaven City Council - Crookhaven Oyster Farmers <p>Letter from NSW EPA titled "RE: Shoalhaven Starches Pty Ltd - Bomaderry, NSW - Environment Protection License No. 883 Pollution Incident 19 March 2014" and dated 2nd May 2014 stating the EPA was pleased with the Manildra response to the incident and that no further regulatory action would be taken. Some recommendations were made.</p> <p>Viewed email from John Studdert to Chris Ritchie (DPE) dated 1 March 2015 notifying of an incident in which 100L of process water was dumped to the factory sump drainage system resulting in an overflow into the Bolong Rd curbside guttering. Notes submission of report to EPA on 26 February 2016.</p> <p>Viewed letter from EPA to Shoalhaven Starches dated 3 March 2016 "Incident Reporting" requesting notification of completion of actions nominated in the incident report.</p>	C	<p>Two reported incidents since 2013 audit. 50kg of starch (diluted with approximately 5,000L seawater) was released into Shoalhaven River on 19th of March 2014 and reported immediately to the EPA.</p> <p>100L of process water overflowed into the Bolong Rd stormwater system on 20 February 2016 and was reported to the DPE.</p>

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
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>"Final Report Pollution Incident 19/03/14 8.00am to 9.30am" dated 24th of March 2014 by Manildra Group - as well as emails containing the report within 7 days to:</p> <ul style="list-style-type: none"> - Julian Wilson (NSW EPA) on the 25th of March - Georgia Dragicevic (Department of Planning) on the 25th of March <p>"Interim Incident Report" from Scott Foggo (Manildra) dated 19th of March 2014 sent to Julian Thompson (NSW EPA) on the 19th of March</p> <p>Viewed email from John Studdert to Chris Ritchie (DPE) dated 1 March 2015 notifying of an incident in which 100L of process water was dumped to the factory sump drainage system resulting in an overflow into the Bolong Rd curbside guttering. Notes submission of report to EPA on 26 February 2016.</p> <p>Viewed letter from EPA to Shoalhaven Starches dated 3 March 2016 "Incident Reporting" requesting notification of completion of actions nominated in the incident report.</p>	C	The report was provided to NSW EPA and Planning within 7 days of the incident. In addition, an Interim Report was provided to NSW EPA on the same day of the incident.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
3	<p>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 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>"Annual Environmental Monitoring Report 2014" by Manildra Group originally dated 2 February 2015 and updated 22 July 2015</p> <p>Email to Chris Ritchie (Planning) on the 2 February 2015 with the above attached.</p> <p>Letter from Planning dated 26 June 2015 containing comments required amendments to the report - 4 weeks are given for Manildra to respond.</p> <p>Letter from Planning dated 20 January 2016 stating the above report is generally in accordance with Condition 3.</p> <p>"Annual Environmental Monitoring Report 2015" by Manildra Group dated 30 October 2015</p> <p>Email to Chris Ritchie (Planning) on the 30 October containing the above report.</p> <p>Letter from Planning dated 20 January 2016 stating the above report is in accordance with Condition 3.</p>	C	Reports were submitted as required.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<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>				
4	<p>4. 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>		Viewed "Shoalhaven Starches Expansion Project Independent Environmental Audit" dated September 2013.	C	This audit represents the second audit (every third year)

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
	<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 Environmental Audit team should include experts in Odour, Noise, and Wastewater Irrigation.</p>				
4*/4A	<p>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.</p>		<p>Viewed email from Shoalhaven Starches to Chris Ritchie, NSW DPE dated 11 October 2013 with 2013 Independent Environmental Audit and action plan attached.</p> <p>Viewed letter from Manildra to Chris Ritchie, NSW DPE dated 11 October 2013 noting submission of the audit report.</p> <p>Viewed "Shoalhaven Starches Audit Action Plan" which included actions and timeframes for each of the recommendations made in the 2013 independent audit.</p>	C	<p>The requirements of this condition are being met.</p>

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
4B	3. 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 Revision of Management Plans / Monitoring Programs for - February 2014 - November 2015 The Spreadsheet notes the changes to the plans and the date they were approved	C	The requirements of this condition are being met.
5A	5A. Within 3 months of the submission of an: 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, the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval. 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.		Viewed Revision of Management Plans / Monitoring Programs for - February 2014 - November 2015 The Spreadsheet notes the changes to the plans and the date they were approved.	C	The requirements of this condition are being met.

Cond	Requirement	Interviews and Inspections	Documentation viewed	Status	Comments
6	<p>The Proponent shall:</p> <p>a) make copies of the following publicly available on its website:</p> <p>(i) the documents referred to in Condition 2 in Schedule 2;</p> <p>(ii) all current statutory approvals for the Project;</p> <p>(iii) all approved strategies, plans and programs required under the conditions of this approval;</p> <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>Quality Assurance & Environmental Coordinator:</p> <p><i>"We have had no community meeting to publish"</i></p>	<p>Viewed Manildra project website for Shoalhaven Starches and note the following were available on the site:</p> <ul style="list-style-type: none"> - Environmental Assessments (as per Condition 2) - Current statutory approvals (via link to DPE page) - a sample of approved strategies required by this approval - 2014 and 2015 Annual Reports which include summaries of the monitoring results for the site <p>The site did include:</p> <ul style="list-style-type: none"> - a complaints register. - minutes of community meetings - the previous environmental audit 	C	The requirements of the condition are being met.

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