

2021/22 ANNUAL COMPLIANCE REPORT - APPROVAL EPBC 2014/7384

WOLFFDENE QUARRY EXTENSION, LUSCOMBE, QUEENSLAND

**Prepared for
Hanson Construction Materials Pty Ltd**

**Biodiversity Assessment and Management Pty Ltd
PO Box 1376
CLEVELAND 4163**



Specialised ecological knowledge that reduces your risk

EPBC Approval Number

2014/7384

Project Name

Wolffdene Quarry Extension, Luscombe, Queensland

Proponent

Hanson Construction Materials Pty Ltd
ACN 009 679 734

Action

Extension of the existing Wolffdene Quarry at Luscombe, approximately 6.5km south of the centre of Beenleigh, Queensland

Date of Preparation

24 August 2022

Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed



Quarry Manager – David Leahy

Hanson Construction Materials Pty Ltd

25/08/2022

Document Preparation History:

Version No.	Date of Issue	Reviewed by	Issued by
2022 Draft A	09/08/2022	Jedd Appleton	Lisa Bannister
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Wolffdene Quarry Extension, Luscombe, Queensland

Approval EPBC 2014/7384

2021/22 Annual Compliance Report

16 June 2021 – 15 June 2022

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Table of Terms and Abbreviations

ACR	Annual Compliance Report
BAAM	Biodiversity Assessment and Management Pty Ltd
DNRM	Department of Natural Resources and Mines
EA	Environmental Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
MNES	Matters of National Environmental Significance
OAMP	Offset Area Management Plan

1.0 PURPOSE

This Annual Compliance Report (ACR) sets out the status of compliance with the conditions imposed under the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) through Approval EPBC 2014/7384 within the required reporting period of 16 June 2021 to 15 June 2022 for the Wolffdene Quarry Extension in Luscombe, Queensland (the Project).

Preparation of this ACR addresses Condition 9 of EPBC 2014/7384, which states:

Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, except condition 2 which specified its own publishing requirements. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Reports must remain on the approval holder's website for the life of the approval.

2.0 BACKGROUND

On 23 June 2016, the Minister for the Environment and Energy (now Minister for Environment and Water) (the Minister) approved the proposed Wolffdene Quarry Extension subject to conditions under the EPBC Act. The Minister, through EPBC 2014/7384, approved the proposed action of:

The controlling provisions to which EPBC 2014/7384 relates are:

- Listed threatened species and communities (sections 18 and 18A, EPBC Act).

The Action officially commenced on 16 June 2021.

3.0 SCOPE

This ACR outlines activities undertaken in relation to EPBC 2014/7384, and assesses:

- Status of compliance with the conditions listed within EPBC 2014/7384 by Hanson and its contractors.
- Any non-compliance with the conditions of EPBC 2014/7384.
- Records of any unavoidable adverse impacts on Matters of National Environmental Significance (MNES), mitigation measures applied to avoid adverse impacts on MNES, and any corrective actions or plan amendments undertaken in connection with any unavoidable adverse impacts on MNES.

This ACR covers the first 12 months of the action, being the period 16 June 2021 to 15 June 2022.

4.0 CONDITION COMPLIANCE

4.1 COMPLIANCE STATUS

The status of compliance with each condition under EPBC 2014/7384 is set out in **Table 1**.

4.2 NON-COMPLIANCES

EPBC 2014/7384 – Condition 5

There were two releases of stormwater (during the February 2022 floods, and during May 2022) with water quality parameters in excess of release criteria specified in Environmental Authority EPPR01766213. These releases were notified to Pollution hotline and investigated further. The investigations found that, on both occasions, the total rainfall received exceeded the site's catchment capacity requirements and the water released was substantially better quality than the upstream and downstream water quality; therefore, no environmental harm occurred from either release. The Department of Environment and Science acknowledged these as instances of dilution rather than pollution and dismissed the releases with no further enforcement action.

Correspondence records relating to these incidents is provided in **Appendix A**.

4.3 UNAVOIDABLE IMPACTS ON MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE

MNES of relevance to the proposed action include the following threatened species:

- Macadamia Nut *Macadamia integrifolia*.
- Koala *Phascolarctos cinerea*.
- Grey-headed Flying-Fox *Pteropus poliocephalus*.

No unavoidable impacts on these MNES have occurred during the current reporting period.

Table 1. Commonwealth EPBC 2014/7484 Compliance Status – Active Conditions

No.	Condition	Status	Comment
1	The approval holder must not clear more than 112.75 hectares of koala and grey-headed flying-fox habitat located inside the project area	Compliant	There was no clearing of Koala or Grey-headed Flying-fox habitat within the project area subject to EPBC 2014/7484 during the 2021-2022 reporting period.
2	The approval holder must ensure there is no loss of macadamia nut within the project area as a result of the proposed action. The approval holder must:	Compliant	During the reporting period from 16 June 2021 to 15 June 2022, there was no loss of Macadamia Nut within the project area. Responses to conditions 2a to 2e below provide further details.
2.a	a) prior to the commencement of the action, collect baseline information on the macadamia nut individuals within the project area, including the number of individuals and information on recruitment of new plants and provide it to the Department;	Compliant	A survey was completed during November 2018 and a report on the survey was finalised on 9 January 2019, prior to commencement of the action on 16 June 2021. The Macadamia Nut Baseline Monitoring Report was provided to the Department on 16 June 2021.
2.b	b) prior to the commencement of the action prepare and implement a management strategy to ensure no loss of macadamia nut within the project area	Compliant	A Macadamia Nut Management Strategy is included in the Wolffdene Quarry Offset Area Management Plan and outlined in more detail in the 2019 Macadamia Nut Baseline Monitoring Report. The management strategy is being implemented, and is focused on managing key threats to the species (wildfire, weeds and livestock grazing) and rehabilitating disturbed regrowth vine forest habitats in the offset area. Initially, weeds are being controlled within a 5 m radius of all Macadamia Nut individuals. Control of Lantana <i>Lantana camara</i> and other weed infestations in regrowth vine forest vegetation to facilitate natural regeneration will be undertaken in a staged manner over the first 7-10 years, with annual maintenance thereafter and restoration plantings, if required.
2.c	c) for the life of the approval collect information every 2 years on the macadamia nut individuals within the project area, including the number of individuals and information on recruitment of new plants	Not applicable	This information will be collected and reported as part of the next ACR covering the required 2 year period.

No.	Condition	Status	Comment
2.d.	prepare and publish a report on the results of the monitoring including the data collected at (c), and the success or otherwise of the management strategy annually for the first three years and then once every five years for the life of the approval;	Not applicable	This information will be collected and reported as part of the next ACR.
2.e.	ensure that all surveying, monitoring and development of management strategies is undertaken by a suitably qualified expert.	Compliant	All surveying, monitoring and development of management strategies has been undertaken by Dr Penn Lloyd of BAAM, a suitably qualified expert.
3	For the long term protection of the koala and the grey-headed flying-fox the approval holder must ensure there is no mortality of koalas and grey-headed flying-foxes at the project area as a result of the proposed action. Compliance with this condition must be monitored daily.	Compliant	During the reporting period from 16 June 2021 to 15 June, there was no identified mortalities of Koala or Grey-headed Flying Fox.
4	If monitoring results indicate that outcomes in conditions 2 or 3 have not been achieved and / or are not likely to be achieved, the approval holder must:	Not applicable	The Proponent has achieved the required outcomes for conditions 2 and 3.
4.a	a) investigate why the outcomes will not be achieved and determine if it is a result of the proposed action.	Not applicable	The Proponent has achieved the required outcomes for conditions 2 and 3.
4.b	a) where caused by the action, within 14 days of receiving the monitoring results advise the	Not applicable	The Proponent has achieved the required outcomes for conditions 2 and 3.

No.	Condition	Status	Comment
	Department; and provide revised management strategies developed in consultation with a suitably qualified expert, which increase the likelihood of achieving the outcomes.		
4.c	c) Implement the revised management measures and advise the Department of the results in reports prepared in accordance with condition 9.	Not applicable	The Proponent has achieved the required outcomes for conditions 2 and 3.
5	For the long term protection of the koala, grey-headed flying-fox, Mary River cod and the macadamia nut, the approval holder must comply with conditions WT1, WT2, WT3, L1 and L2 of the Environmental Authority EPPR01766213 issued by the Queensland Department of Environment and Heritage Protection. The approval holder must advise the Department in writing of any proposed changes to conditions WT1, WT2, WT3, L1 and L2 within 10 days of formally proposing a change or becoming aware of the State proposing a change.	Not applicable	No changes to conditions WT1, WT2, WT3, L1 or L2 of the Environmental Authority (EA) EPPR01766213 were proposed during the reporting period.
5 (WT1)	The only contaminants to be released to surface waters are at Release Point W1 as identified in <i>Attachment 1 Plan 1001.278 Revision 4 dated 31 August 2016</i> – in accordance	Compliant	All records substantiating activities associated with or relevant to this condition of approval are maintained by the Proponent.

No.	Condition	Status	Comment
	with <i>Table 1 – Surface water release limits</i> and associated monitoring requirements.		
5 (WT2)	In addition to WT1, the release to waters must not: <ol style="list-style-type: none"> 1. Have any other properties at a concentration that is capable of causing environmental harm; 2. Produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter. 	Non-compliant	There were two releases of stormwater (during the February 2022 floods, and during May 2022) with water quality parameters in excess of release criteria specified in Environmental Authority EPPR01766213. These releases were notified to Pollution hotline and investigated further. The investigations found that, on both occasions, the total rainfall received exceeded the site's catchment capacity requirements and the water released was substantially better quality than the upstream and downstream water quality; therefore, no environmental harm occurred from either release. The Department of Environment and Science acknowledged these as instances of dilution rather than pollution and dismissed the releases with no further enforcement action. Reports and correspondence records relating to these incidents is provided in Appendix A .
5 (WT3)	The stormwater runoff from disturbed areas, generated by (up to and including) a 24-hour storm event with an average recurrence interval of 1 in 5 years must be retained on site or managed to remove contaminants before release.	Non-compliant	There were two releases of stormwater (during the February 2022 floods, and during May 2022) with water quality parameters in excess of release criteria specified in Environmental Authority EPPR01766213. These releases were notified to Pollution hotline and investigated further. The investigations found that, on both occasions, the total rainfall received exceeded the site's catchment capacity requirements and the water released was substantially better quality than the upstream and downstream water quality; therefore, no environmental harm occurred from either release. The Department of Environment and Science acknowledged these as instances of dilution rather than pollution and dismissed the releases with no further enforcement action. Reports and correspondence records relating to these incidents is provided in Appendix A .
5 (L1)	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <ol style="list-style-type: none"> 1. Suitable native species of vegetation for the location are established and sustained for earthen surfaces; 	Compliant	Rehabilitation has been undertaken on the western face of the tower pit at RL140 and the top benches of the southern pit as those have become terminal. Outside of this, none of the disturbed areas are at terminal phase and, therefore, revegetation is not suitable or required.

No.	Condition	Status	Comment
	2. Potential for erosion is minimised; 3. The quality of water, including seepage, released from the site does not cause environmental harm; 4. Potential for environmental nuisance caused by dust is minimised; 5. The water quality of any residual water body does not have potential to cause environmental harm; 6. The final landform is stable and protects public safety.		
5 (L2)	Rehabilitation of disturbed areas required under condition L1 must take place progressively as works are staged and new areas of extraction are commenced.	Compliant	No terminal faces had been met over the period except the top bench on the southern pit and the western faces of the tower pit at RL140. These have been covered with over burden and revegetated.
6	To compensate for the loss of 112.75 hectares of koala and grey-headed flying-fox habitat the approval holder must:		See 6a-6d for responses.
6.a	a) prior to the commencement of the action legally secure a 189 hectare offset containing koala and grey-headed flying-fox habitat as mapped at Figure 2 of this approval;	Compliant	A 189 hectare offset containing koala and grey-headed flying-fox habitat as mapped at Figure 2 of the approval was legally secured via a voluntary declaration by the Queensland DNRM on 15 December 2017, prior to the commencement of the action on 16 June 2021.

No.	Condition	Status	Comment
6.b	b) provide the Department with offset attributes, shapefile and map(s) clearly defining the location and boundaries of each offset, within two weeks of lodgement of the offset with the Titles Office	Compliant	The offset attributes, shapefile and map(s) clearly defining the location and boundaries of each offset were provided to the Department on 6 February 2018.
6.c	c) ensure the agreement is registered on the title on which each offset is located, and provide a copy of the signed agreement within 2 weeks of receipt from the Titles Office; and	Compliant	The agreement was registered on the title on which each offset is located, and a copy of the signed agreement was provided to the Department on 6 February 2018.
6.d	d) ensure that the offset is managed to achieve a future quality offset score of 8 as described in the preliminary documentation, within 30 years of the date of this approval. Progress towards the achievement of a future quality offset score of 8 must be demonstrated and justified in reports prepared in accordance with condition 9.	Compliant	The offset is being managed in accordance with an approved Offset Area Management Plan (OAMP) to achieve a future quality offset score of 8 within 30 years. The Wolffdene Quarry Offset Area Baseline Habitat Quality Assessment was finalised on 16 June 2021; the offset area was assessed as having a baseline habitat quality score of 7. A copy of the Wolffdene Quarry Offset Area Baseline Habitat Quality Assessment was provided to the Department with notification on commencement of the action on 16 June 2021.
6	The approval holder must ensure any proposal for alternative offsets is agreed to in writing with the Department. Note: Offsets for different species may overlap where they share the same habitat requirements.	Not applicable	A request for alternative offsets has not been proposed during the reporting period.
7	Within 10 days after the commencement of the action,	Compliant	The Department was advised in writing of the date of commencement of the action on 16 June 2021.

No.	Condition	Status	Comment
	the approval holder must advise the Department in writing of the actual date of commencement.		
8.	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the report and strategy required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	All such records are maintained by the proponent for auditing purposes.
9.	Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, except condition 2 which specifies its own publishing requirements. Documentary evidence	Compliant	<p>The Annual Compliance Report for Year 1 of the approval was published on the Hanson website prior to 15 September 2022.</p> <p>The website link is provided below:</p> <p>https://www.hanson.com.au/about-us/regulatory-information/wolffdene-quarry/</p>

No.	Condition	Status	Comment
	<p>providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Reports must remain on the approval holder's website for the life of the approval.</p>		
10.	<p>Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.</p>	Not applicable	<p>A request for an independent audit of the Project was not made by the Minister during the reporting period.</p>
11.	<p>If, at any time after five years from the date of this approval, the approval holder has not commenced the action, then the approval holder must not commence the action without the written agreement of the Minister.</p>	Not applicable	<p>The approval holder commenced the action on 16 June 2021.</p>

Appendix A

Reporting and Correspondence relating to Stormwater Releases

Certificate of Analysis

Contact: David Leahy
Customer: Hanson Construction Materials
Address: Harts Road
LUSCOMBE QLD 4207
Date Received: 3/03/2022
Date Commenced: 3/03/2022
Time Commenced (Microbiology):
Date Approved: 7/03/2022
Cust Ref:
No. of Samples: 14

Comments: Results refer to sample/s as received at the laboratory.
Analysis commenced on the date of sample receipt.
The recommended holding time for pH is 15 minutes, all pH results for samples submitted to the laboratory will exceed this holding time.
Samples submitted for Dissolved Oxygen analysis are outside holding time as this test needs to needs to be performed in-situ for a true result. Analysed at client request.

For information on Uncertainty of Measurement, please go to <https://www.goldcoast.qld.gov.au/scientific-laboratory-services-16246.html>

Key: ND = Not detected * = Approximation only < = less than > = greater than EST = Estimated ^ = Test not covered by scope of NATA accreditation LOR = Level of Reporting
NP = Not Performed MPN = Most Probable Number CFU = Colony Forming Units PFU = Plaque Forming Units

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

Authorised By


Christine Traby
Senior Scientific Officer



Accreditation No. 2536
Accredited for compliance
with ISO/IEC 17025 – Testing

Your feedback is important to us, please submit your comments to scientificservices@goldcoast.qld.gov.au

Certificate of Analysis

Sample ID: 2022004956 2022004957 2022004958 2022004959 2022004960 2022004961 2022004962 2022004963 2022004964 2022004965 2022004966 2022004967 2022004968

Sampling Date: 25/02/2022 26/02/2022 28/02/2022 28/02/2022 28/02/2022 1/03/2022 1/03/2022 1/03/2022 2/03/2022 2/03/2022 2/03/2022 3/03/2022 3/03/2022

Sampling Time: 0900 0700 0840 0850 0830 0900 0900 0900 1100 1100 1100 0900 0900

Parameter	Units	LoR	Stormwater W1	Stormwater W1	Albert River Upstream	Albert River Downstream	W1	Albert River Upstream	Albert River Downstream	W1	Albert River Upstream	Albert River Downstream	W1	Albert River Upstream	Albert River Downstream
APHA 4500 OG : Dissolved Oxygen															
Dissolved Oxygen	mg/L	0.1	5.8	7.9	7.3	5.5	7.4	6.3	5.0	7.2	6.4	3.6	6.2	7.4	7.8
APHA 4500 H+ : pH															
pH		0.03	7.2	7.6	6.6	6.7	7.2	7.0	6.8	7.4	7.2	7.0	7.2	7.3	7.4
APHA 2540 C / APHA 2540 D / APHA 2540 E / APHA 2540 G : Solids															
Total Suspended Solids	mg/L	2	13	81	180	320	630	97	75	130	49	38	21	61	120

Certificate of Analysis

Sample ID: 2022004969

Sampling Date: 3/03/2022

Sampling Time: 0900

Parameter	Units	LoR	W1
APHA 4500 OG : Dissolved Oxygen			
Dissolved Oxygen	mg/L	0.1	8.2
APHA 4500 H+ : pH			
pH		0.03	7.5
APHA 2540 C / APHA 2540 D / APHA 2540 E / APHA 2540 G : Solids			
Total Suspended Solids	mg/L	2	81

Certificate of Analysis

Contact: David Leahy
Customer: Hanson Construction Materials
Address: Harts Road
LUSCOMBE QLD 4207
Date Received: 18/05/2022
Date Commenced: 18/05/2022
Time Commenced (Microbiology):
Date Approved: Interim

Cust Ref: **No. of Samples:** 9

Comments: Results refer to sample/s as received at the laboratory.
The recommended holding time for pH is 15 minutes, all pH results for samples submitted to the laboratory will exceed this holding time.
Dissolved Oxygen analysis should be performed in-situ, results for analysis performed at the laboratory is not a true result.

For information on Uncertainty of Measurement, please go to <https://www.goldcoast.qld.gov.au/scientific-laboratory-services-16246.html>

Key: ND = Not detected * = Approximation only < = less than > = greater than EST = Estimated ^ = Test not covered by scope of NATA accreditation LOR = Level of Reporting
NP = Not Performed MPN = Most Probable Number CFU = Colony Forming Units PFU = Plaque Forming Units

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Authorised By

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Accreditation No. 2536
Accredited for compliance
with ISO/IEC 17025 – Testing

Certificate of Analysis

Sample ID: 2022011132 2022011133 2022011134 2022011135 2022011136 2022011137 2022011138 2022011139 2022011140

Sampling Date: 13/05/2022 13/05/2022 13/05/2022 14/05/2022 14/05/2022 14/05/2022 16/05/2022 16/05/2022 16/05/2022

Sampling Time:

Parameter	Units	LoR	Wolffdene (W1)	Upstream	Downstream	Wolffdene (W1)	Upstream	Downstream	Wolffdene (W1)	Upstream	Downstream
APHA 4500 OG : Dissolved Oxygen											
Dissolved Oxygen	mg/L	0.1									
APHA 4500 H+ : pH											
pH		0.03	7.2	7.2	7.2	7.3	7.1	7.0	7.5	7.3	7.2
APHA 2540 C / APHA 2540 D / APHA 2540 E / APHA 2540 G : Solids											
Total Suspended Solids	mg/L	2	150	240	170	210	210	210	150	220	150

14 March 2022

Permits and Licences
 Department of Environment and Science
 GPO Box 2454
 Brisbane Qld 4001

Email: PollutionHotline@des.qld.gov.au

Re: Notification of Stormwater Release (Ref: N-100212561) – Wolffdene Quarry

To whom it may concern,

Hanson writes to provide the Department of Environment and Science (the Department) with further information regarding the Stormwater Release Notification (REF: N-100212561) for Wolffdene Quarry (EPPR01766213), submitted 28 February 2022. Since this initial notification, the Department has attended site as part of their regional response to the significant rainfall and flooding event. This site visit occurred on 8 March 2022, where the rainfall event and our response to it was discussed.

Hanson confirms that between 23 – 28 February, Wolffdene Quarry experienced a significant rainfall event, receiving approximately 750 mm over the 6-day period. The rainfall received exceeded the site’s stormwater catchment capacity, resulting in an uncontrolled release of surface water, beginning 25 February. Rainfall data from the onsite weather station has been provided in the table below:

Date	Rainfall (mm)	Date	Rainfall (mm)
23/02/2022	63.4	26/02/2022	170.4
24/02/2022	71.8	27/02/2022	204
25/02/2022	93.4	28/02/2022	147.8
Total Rainfall Recorded (mm)			750.8

Prior to the storm event, Wolffdene Quarry had achieved maximum freeboard levels in the stormwater catchment dams, as required by condition WT3 of the site’s Environmental Authority (EA), in readiness for the predicted rainfall. Based on the freeboard that was made available, the catchment capacity prior to the event was sufficient to capture and hold runoff from a 1-in-5 year storm event (195.6 mm). However, due to the continual and concentrated nature of the rainfall event, freeboard levels were not able to be maintained and catchment capacity was exceeded by the afternoon of 25 February.

During the event, Wolffdene Quarry maintained Stormwater Management Systems in accordance with the site’s Stormwater Management Plan. Flocculent was continuously applied to each of the stormwater management dams and drainage channels. This assisted in controlling Total Suspended Solids (TSS) in release waters. The management of stormwater was effective during the initial release on 25 February, however as rainfall intensified between 26 – 28 February, this became increasingly difficult to maintain.

Following the intense rainfall received between 26 - 27 February, an undisturbed embankment collapsed, the embankment is located within the site's stormwater catchment. It is believed this failure occurred as a result of oversaturation of the soil / weathered material leading to localized collapse. Stormwater from this area is directed towards SB1, which resulted in an increase in suspended solids as a result of an influx of sediment from this failure.

Water quality monitoring was undertaken where and when it was safe to do so. Results from this monitoring is provided below. Results for 28 February show the short-term increase in suspended solids associated with the failure. Results quickly decreased over the proceeding days.

Date	Sample Location	DO >6 mg/L	pH 6.5 – 8.5	TSS <50 mg/L
25/02/2022	W1	5.8	7.2	13
26/02/2022	W1	7.9	7.6	81
28/02/2022	W1	7.4	7.2	630
01/03/2022	W1	7.2	7.4	130
02/03/2022	W1	6.2	7.2	21
03/02/2022	W1	8.2	7.5	81

Considering the severity of the rainfall event, and the major flooding that ensued within the Albert River, the release from site is unlikely to have resulted in environmental harm to the receiving environment.

The stormwater management system performed well throughout the event, with the initial 1 in 5-year 24-hour volume being able to be successfully captured at the site. Proceeding rainfall simply overwhelmed the stormwater system, with the localized failure causing an increase in TSS concentrations over a short period.

Hanson will continue to monitor the situation to ensure any further releases remain compliant with the site's EA release criteria. In the event any non-compliant releases occur, Hanson will notify the Department as required.

Should you require any further details or clarification, please do not hesitate to contact me directly.

Yours Sincerely,



David Leahy

Hanson Construction Materials - Quarry Manager

27 May 2022

Permits and Licences
Department of Environment and Science
GPO Box 2454
Brisbane Qld 4001

Email: PollutionHotline@des.qld.gov.au

Re: Notification of Stormwater Release – Wolffdene Quarry

To whom it may concern,

Hanson writes to provide the Department of Environment and Science (the Department) with further information regarding the Stormwater Release Notification for Wolffdene Quarry (EPPR01766213), submitted 13 May 2022.

Hanson confirms that between 9 – 13 May, Wolffdene Quarry experienced a significant rainfall event, receiving approximately 203 mm over the 5-day period. The rainfall received exceeded the site's stormwater catchment capacity, resulting in an uncontrolled release of surface water on the evening of 12-13 May. Rainfall data from the onsite weather station has been provided in the table below:

Date	Rainfall (mm)
09/05/2022	27.6
10/05/2022	0.4
11/05/2022	96
12/05/2022	69.8
13/05/2022	9
Total (mm)	202.8

Prior to the rain event, Wolffdene Quarry had achieved maximum freeboard levels in the site's stormwater catchment dams SB1, SB2, SB3, SB3a, as required by condition WT3 of the site's Environmental Authority (EA). The catchment capacity prior to the event was sufficient to capture and hold runoff equivalent to a 1-in-5 year storm event (195.6 mm). However, due to the continual and concentrated nature of the rainfall event, and the considerable saturation of the catchment area, freeboard levels were not able to be maintained and catchment capacity was exceeded.

During the release, water quality monitoring was undertaken at the site's release point (W1), as well as upstream (Albert River Weir) and downstream (Patterson Road Bridge) locations, to understand any potential impacts of released waters on the receiving environment. Results from this monitoring have been provided in the table below:

Date	Sample Location	pH 6.5 – 8.5	TSS <50 mg/L
13/05/2022	W1	7.2	150
13/05/2022	Albert River Upstream	7.2	240
13/05/2022	Albert River Downstream	7.2	170
14/05/2022	W1	7.3	210
14/05/2022	Albert River Upstream	7.1	210
14/05/2022	Albert River Downstream	7.0	210
15/05/2022	W1	7.5	150
15/05/2022	Albert River Upstream	7.3	220
15/05/2022	Albert River Downstream	7.2	150

Hanson acknowledges elevated results for TSS at the release point W1. However, results also show significantly elevated results for TSS at the upstream monitoring location, and reduced values for TSS at the downstream monitoring location. Hanson believes this is representative of released waters diluting more the more highly concentrated upstream TSS values within the Albert River, resulting in improved environmental values in the downstream receiving environment. Considering the nature of the rain event, volume of rain received, and upstream/downstream values, Hanson believes that the release is unlikely to have caused environmental harm to the receiving environment.

Hanson will continue to monitor the situation to ensure any further releases remain compliant with the site's EA release criteria. In the event any non-compliant releases occur, Hanson will notify the Department as required.

Should you require any further details or clarification, please do not hesitate to contact me directly.

Yours Sincerely,



David Leahy

Hanson Construction Materials - Quarry Manager

Jedd Appleton

From: Pollution Hotline <PollutionHotline@des.qld.gov.au>
Sent: 21 March, 2022 5:02 PM
To: Dennis, Nick (Skygate) AUS
Subject: C-CPLRC-100224306 RE: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

External Email - Please use proper judgment and caution when opening attachments, clicking links, or responding. Report suspicious emails with SPAM PHISH button.

Dear Nick

Thank you for your formal report. Your ref is C-CPLRC-100224306.

Kind regards,



Laura Arias
Principal Environmental Officer
Community Response | Operational Support
Environmental Services and Regulation
Department of Environment and Science
P 1300 130 372 E pollutionhotline@des.qld.gov.au

From: Dennis, Nick (Skygate) AUS <nick.dennis@hanson.com.au>
Sent: Monday, 14 March 2022 1:23 PM
To: Pollution Hotline
Cc: Leahy, David (Wolffdene) AUS; Cole, Phil (Skygate) AUS; Graham, Murray (Skygate) AUS
Subject: RE: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

Hello,

Please find formal notification of release for Wolffdene Quarry (EPPR001766213) attached.

Kind regards,

Nick Dennis
NR Sustainability & Planning Lead

T +61 7 3246 5548 | M +61 437 756 456
nick.dennis@hanson.com.au | www.hanson.com.au

From: Dennis, Nick (Skygate) AUS
Sent: Monday, 28 February 2022 10:34 AM
To: PollutionHotline@des.qld.gov.au
Cc: Leech, Jarrod (Nerang) AUS <jarrod.leech@hanson.com.au>; Leahy, David (Wolffdene) AUS <David.Leahy@hanson.com.au>; Taylor, John (Ferny Grove) AUS <John.Taylor@hanson.com.au>; Purcell, Brett (Ravensbourne) AUS <Brett.Purcell@hanson.com.au>; Wilson, Chris (Glasshouse Mountains) AUS <chris.wilson@hanson.com.au>; Cole, Phil (Skygate) AUS <phil.cole@hanson.com.au>; Graham, Murray (Skygate)

AUS <Murray.Graham@hanson.com.au>

Subject: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

Hello,

Thank you for taking my call earlier notifying of various uncontrolled stormwater releases from Hanson's South East Queensland quarry operations (REF: N-100212561).

Due to the significant rainfall received, Hanson is providing preliminary notification of uncontrolled stormwater releases at the following locations:

- Nerang Quarry, Hymix Road, Gaven – EPPR00984013
- Wolffdene Quarry, Harts Road, Luscombe – EPPR01766213
- Ferny Grove Quarry, Upper Kedron Road, Upper Kedron – EPPR00340013
- Glasshouse Quarry, Mt Beerwah Road, Glass House Mountains – EPPR00389713
- Ravensbourne Quarry, Philp Road, Ravensbourne – EPPR00345113

As stormwater catchment capacity has been exceeded at all operations, stormwater releases are ongoing and will continue until freeboard can be regained.

Water quality monitoring continues to be undertaken where safe to do so.

Hanson will provide a detailed summary of events, once access to site is available and all monitoring data has been collated.

Please feel free to contact site management or myself directly for more information.

Kind regards,



Nick Dennis
NR Sustainability & Planning Lead

M: +61 437 756 456 | nick.dennis@hanson.com.au
T: +61 7 3246 5548 | hanson.com.au



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Jedd Appleton

From: Jamie-Lee Young <JamieLee.Young@des.qld.gov.au>
Sent: 21 April, 2022 3:41 PM
To: Dennis, Nick (Skygate) AUS
Cc: ESR - Gold Coast; Leahy, David (Wolffdene) AUS; Yvette Morgan; Emmie Elliott
Subject: RE: C-CPLRC-100224306 FW: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

External Email - Please use proper judgment and caution when opening attachments, clicking links, or responding. Report suspicious emails with SPAM PHISH button.

Good afternoon Nick,

Thank you for sending through further information relating to the stormwater release and for showing us around the site on 8 March 2022.

The department has now closed this case with no further action.

Kind regards,

Jamie-Lee Young

Senior Environmental Officer, Compliance (I work part-time, Tuesday & Wednesday)

Waste, Development and Southeast Compliance

Department of Environment and Science

P 07 5626 6811

From: Dennis, Nick (Skygate) AUS <nick.dennis@hanson.com.au>
Sent: Monday, 14 March 2022 1:23 PM
To: Pollution Hotline
Cc: Leahy, David (Wolffdene) AUS; Cole, Phil (Skygate) AUS; Graham, Murray (Skygate) AUS
Subject: RE: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

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Nick Dennis

NR Sustainability & Planning Lead

T +61 7 3246 5548 | M +61 437 756 456

nick.dennis@hanson.com.au | www.hanson.com.au

From: Dennis, Nick (Skygate) AUS
Sent: Monday, 28 February 2022 10:34 AM
To: PollutionHotline@des.qld.gov.au
Cc: Leech, Jarrod (Nerang) AUS <jarrod.leech@hanson.com.au>; Leahy, David (Wolffdene) AUS <David.Leahy@hanson.com.au>; Taylor, John (Ferny Grove) AUS <John.Taylor@hanson.com.au>; Purcell, Brett (Ravensbourne) AUS <Brett.Purcell@hanson.com.au>; Wilson, Chris (Glasshouse Mountains) AUS <chris.wilson@hanson.com.au>; Cole, Phil (Skygate) AUS <phil.cole@hanson.com.au>; Graham, Murray (Skygate)

AUS <Murray.Graham@hanson.com.au>

Subject: Hanson Construction Materials - Stormwater Release Notification (REF: N-100212561)

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Kind regards,



Nick Dennis
NR Sustainability & Planning Lead

M: +61 437 756 456 | nick.dennis@hanson.com.au
T: +61 7 3246 5548 | hanson.com.au



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Jedd Appleton

From: Leahy, David (Wolffdene) AUS <david.leahy@hanson.com.au>
Sent: 13 May, 2022 12:19 PM
To: Pollution Hotline
Cc: Dennis, Nick (Skygate) AUS
Subject: Notification of a release of stormwater from our Wolffdene Quarry

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

This is provided to the Department as notification of a release of stormwater from our Wolffdene Quarry, operated under Environmental Authority EPPR01766213.

We have collected samples of the release and have submitted for laboratory results. This email is provided as an early notification of a potential non-compliant release, further information will be submitted to the Department once results are received.

Considering the sustained heavy rainfall received on site, the site has performed well, and we do not believe any environmental harm has resulted from the release, particularly considering the impact of this sustained rainfall in the catchment more broadly.

Should you have any questions please do not hesitate to contact me.

Thanks



David Leahy
Quarry Manager

M: +61 418 153 510 | david.leahy@hanson.com.au
T: +61 7 5549 7077 | hanson.com.au



**ARE YOU READY?
SAFETY WEEK 2022**



Jedd Appleton

From: Leahy, David (Wolffdene) AUS <david.leahy@hanson.com.au>
Sent: 27 May, 2022 11:35 AM
To: ESR - Gold Coast
Cc: Cole, Phil (Skygate) AUS; Graham, Murray (Skygate) AUS; Dennis, Nick (Skygate) AUS
Subject: Formal Notification of release for Wolffdene Quarry
Attachments: Wolffdene_Stormwater Release Notification.pdf

Hello,

Please find formal notification of release for Wolffdene Quarry (EPPR001766213) attached.

Kind regards,



David Leahy
Quarry Manager

M: +61 418 153 510 | david.leahy@hanson.com.au

T: +61 7 5549 7077 | hanson.com.au



Jedd Appleton

From: Leahy, David (Wolffdene) AUS <david.leahy@hanson.com.au>
Sent: 10 June, 2022 5:14 AM
To: Dennis, Nick (Skygate) AUS
Cc: Cole, Phil (Skygate) AUS
Subject: FW: Formal Notification of release for Wolffdene Quarry_C-CPLRC-100261796

See below

David Leahy
Quarry Manager

T +61 7 5549 7077 | M +61 418 153 510

david.leahy@hanson.com.au | www.hanson.com.au

From: Pollution Hotline <PollutionHotline@des.qld.gov.au>
Sent: Thursday, 9 June 2022 4:19 PM
To: Leahy, David (Wolffdene) AUS <david.leahy@hanson.com.au>
Subject: RE: Formal Notification of release for Wolffdene Quarry_C-CPLRC-100261796

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Ref C-CPLRC-100261796

9 June 2022

Hanson Construction Materials Pty Ltd

Dear David

Thank you for your email notification to the Department of Environment and Science of 27 May 2022, concerning a notification of a non-compliance with:

- Condition WT3 – Stormwater release

The department reminds you of your general environmental duty under the *Environmental Protection Act 1994* to take all reasonable and practicable measures to prevent or minimise environmental harm.

The department is aware that you are the holder of Environmental Authority EPPR01766213. The department reminds you of your obligation to comply with the conditions of your environmental authority and invites you to undertake any necessary due diligence processes, to confirm that you are implementing reasonable measures to prevent or minimise nuisance and are in compliance with the conditions in your environmental authority.

The department has considered the information provided in your notification and has decided to take no further action at this time considering:

- the level of impact on environmental values
- notification was received within a reasonable timeframe
- non-compliance was inadvertent
- reasonable measures were implemented to mitigate any impacts.



Queensland
Government



Queensland
Government

If you require any further information, please contact me on 1300 130 372 (option 2).

Yours sincerely,

Justin Fritz

Senior Environmental Officer

Community Response Team | Operational Support

Environmental Services and Regulation

Department of Environment and Science

P 1300 130 372 option 2 E pollutionhotline@des.qld.gov.au

GPO Box 2454, Brisbane QLD 4001

From: Pollution Hotline

Sent: Wednesday, 1 June 2022 10:49 AM

To: 'david.leahy@hanson.com.au'

Subject: FW: Formal Notification of release for Wolffdene Quarry - N-100261791

Good morning David,

Thank you for your email below. Your receipt number for this contact is N-100261791.

If you have any further queries or information regarding this matter please contact the department quoting reference number C-CPLRC-100261796.

Regards

Rickie

Rickie Huckle ([she/her](#))

Senior Environmental Officer

Community Response | Operational Support

Environmental Services and Regulation

Department of Environment and Science

P 1300 130 372 opt. 2 | E pollutionhotline@des.qld.gov.au

GPO Box 2454, Brisbane QLD 4001

From: Leahy, David (Wolffdene) AUS <david.leahy@hanson.com.au>

Sent: Friday, 27 May 2022 11:35 AM

To: ESR - Gold Coast

Cc: Cole, Phil (Skygate) AUS; Graham, Murray (Skygate) AUS; Dennis, Nick (Skygate) AUS

Subject: Formal Notification of release for Wolffdene Quarry

Hello,

Please find formal notification of release for Wolffdene Quarry (EPPR001766213) attached.

Kind regards,



David Leahy
Quarry Manager

M: +61 418 153 510 | david.leahy@hanson.com.au

T: +61 7 5549 7077 | hanson.com.au



**WE'LL MAKE
IT HAPPEN**

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