

Annual Environmental Management Report July 2022 – June 2023

Name of Operation	Nowra Brickworks Quarry
Name of Operator	South Coast Concrete Crushing & Recycling Pty Ltd
Development consent / project approval #	07_0123
Name of holder of development consent / project approval	South Coast Concrete Crushing & Recycling Pty Ltd
Mining Lease #	ML 5087 / ML 6322 / ML 531
Name of Holder of mining lease	Abib Pty Ltd
Water Licence #	10BL602172
Name of holder of water licence	South Coast Concrete Crushing & Recycling Pty Ltd
MOP/RMP start date	1st September 2015
MOP/RMP end date	31st August 2022
Annual Review start date	1st July 2022
Annual Review end date	30 th June 2023

I, Budd Green, certify that this audit report is a true and accurate record of the compliance status of South Coast Concrete Crushing and Recycling for the period July 2022 – June 2023 and that I am authorised to make this statement on behalf of South Coast Concrete Crushing and Recycling

Note.

- a) The Annual Review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report to the minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement-maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents maximum penalty 2 years imprisonment or \$22,000 or both).

Name of authorised reporting officer	Budd Green
Title of authorised reporting officer	General Manager / Production Manager
Signature of authorised reporting officer	J-
Date	21st August 2023

Contents

An	nual Environmental Management Report July 2021 – June 2022	1
	Contents	2
1.	INTRODUCTION	5
	1.1 Consents, Leases and Licences	5
	1.1.1 Mineral Authorities	5
	1.1.2 Licences	5
	1.1.3 Development Consents	5
	1.2 Mine Contacts	5
	1.3 Actions Required at Previous AEMR Review	
2.	Operations/Activities During Reporting Period	7
	2.1 Exploration	7
	2.2 Land Preparation	7
	2.3 Construction	7
	2.4 Mining - Extraction	7
	2.5 Mineral Processing	7
	2.5.1 Importation of material for Blending	8
	2.5.2 VENM/ENM Certificate and Receipt Procedures	8
	2.5.3 VENM Stockpiling	9
	2.6 Waste Management	10
	2.6.1 Scrap steel (ferrous metal) from concrete recycling	10
	2.6.2 Waste timber, plastic, non-ferrous metals	10
	2.6.3 Lunch Waste and Food Scraps	10
	2.6.4 Asbestos Materials	10
	2.6.5 Ablutions	10
	2.6.6 Waste Oils, Batteries	11
	2.7 Ore and Product Stockpiles	11
	2.8 Water Management	11
	2.9 Hazardous Material Management	11
	2.10 Production Quantities and VENM/ENM importation for Emplacement in Void	11
3.	ENVIRONMENTAL MANAGEMENT AND PERFORMANCE	13
	3.1 Blasting Monitoring	13
	3.1.1 Blasting Analysis (Ground Vibration)	14
	3.1.2 Blasting Analysis (Air Blast Overpressure)	16
	3.1.3 Blasting Summary	18
	3.2 Noise Monitoring	19
	3.2.1. Noise Summary	19
	3.3 Air Monitoring	20
	3.3.1 Dust Deposition Gauges (DDG)	20
	3.3.2 TsP High Volume Samplers	21
	3.3.3. Pm10 High Volume Samplers	21
	3.3.4. Dust Summary	22

3.4 Erosion and Sediment Control Monitoring	22
3.4.1 Nowra Brickworks Quarry	22
3.4.2 Flat Rock Quarry	22
3.5 Landscape and Biodiversity Monitoring	22
3.5.1 Weed Management	22
3.5.2 Site Reference Photos	24
3.5.3 Landscape and Biodiversity Summary	24
3.6 Aboriginal heritage monitoring.	24
3.7 Surface water monitoring	25
3.7.1 pH	25
3.7.2 Electrical Conductivity	26
3.7.3 Iron	26
3.7.4 Aluminium	26
3.7.5 Arsenic	26
3.7.6 Zinc	26
3.7.7 Nitrate	27
3.7.8 Ammonia	27
3.7.9 Phosphorus	27
3.7.10 Surface Water Summary	28
3.8 Ground water monitoring	29
3.8.1 Groundwater Monitoring summary	33
3.9 Nowra Creek Health monitoring	33
3.9.1 Health Monitoring Photos 21st Feb 2021	34
3.9.2 Health monitoring photos 21st May 2021	35
3.9.4 Creek Health Monitoring Summary	39
3.10 Aboriginal Heritage	40
3.11 Natural Heritage	40
3.12 Spontaneous Combustion	40
3.13 Bushfire	40
3.14 Mine subsidence	40
3.15 Hydrocarbon contamination	40
3.16 Methane drainage/ventilation	41
3.17 Public safety	41
3.20 Other issues and risks	42
4. COMMUNITY RELATIONS	43
4.1. Community Consultative Committee (CCC)	43
4.2. Complaints	43
5. REHABILITATION	44
6. ACTIVITIES PROPOSED IN THE NEXT AEMR PERIOD	47
Appendix A – Project Approval	48
Appendix B – EMS	49
Appendix C – Blasting Monitoring Results	50

Appendix D – Noise monitoring results	51
Appendix E – Air monitoring results	52
Appendix F – Erosion and Sediment Control Log	53
Appendix G – Landscape and Biodiversity Monitoring	54
Appendix H – Surface water monitoring	55
Appendix I – Ground Water Monitoring	56
Appendix J – Contour Plans of Brickworks Quarry	57
Appendix K – Complaints Register	58
Appendix L – VENM	59
Appendix M – Plans	60



1. INTRODUCTION.

This AEMR has been prepared to cover a period from 1st July 2021 to 30th June 2022. The operation of this mine is controlled by the Mining Operations Plan (MOP) which covers mining operations from September 2015 – 2022. The current MOP provides the relevant information on the mining, processing and rehabilitation operations necessary for compliance with the collective conditions imposed upon the mining development at the Nowra Brickworks Quarry by the applicable mineral authorities and other licences required to be held by SCCCR.

This report should be read in conjunction with the current mining operations plan.

1.1 Consents, Leases and Licences

1.1.1 Mineral Authorities.

Table 1 - Mineral Leases

Title	Act	Expiry Date	Area (ha)	Group
ML 5087	1906	08 January 2041	7.36	Group 5
ML 6322	1906	08 March 2041	14.67	Group 5

The area covered by these mineral authorities is referred to hereafter as "the quarry site". No activities were carried out in flat rock quarry (ML531) during the reporting period

1.1.2 Licences

The Nowra Brickworks Quarry is operated in accordance with Environment Protection Licence No. **11765.** This licence covers "Hard-Rock Gravel Quarrying" of between 100 000t and 500000t per annum and "Crushing, Grinding or Separating Works" between 100 000t and 500 000t per annum.

1.1.3 Development Consents

Development Consent under Section 75J of The Environmental Planning and Assessment Act 1979. Application No. 07_0123. Approved by the Minister for Planning 1st December 2009. MOD 1 approved June 2013. MOD 2 approved 21st June 2018.

1.2 Mine Contacts

SCCCR personnel responsible for operational and environmental performance at the Nowra Brickworks Quarry and their relevant contact details are as follows.

- Budd Green Mine Manager SCCCR, retains overall responsibility for all activities and performance on site. Contact: 02 4421 7766. Fax 02 4421 7988. Postal Address PO Box 192, OAK FLATS NSW 2529
- Genaya Shephard –Production Manager of SCCCR. Contact: 02 4421 7766. Fax 02 4421 7988. Postal Address PO Box 192, OAK FLATS NSW 2529

➤ Ben Brookfield/Angela Thorley – Allocations and Processing of SCCCR. Contact: 02 4421 7766. Fax 02 4421 7988.



2. Operations/Activities During Reporting Period

2.1 Exploration

No exploration was carried out within the mine area during the period.

2.2 Land Preparation

No Land preparation was required during the reporting period.

2.3 Construction

During the July 2022 – June 2023 AEMR reporting period no new permanent structures were built.

2.4 Mining - Extraction

All mining activities were carried out in accordance with the current MOP 2015-2021.

During the reporting period, ongoing extraction of minerals was carried out. This was carried out using standard excavating procedures (ripping and excavating) of the subsoil/overburden. The harder material was blasted as per approved methods.

Mining Methods (ref section 2.3.3 MOP 2015-2021)

"Weathered shale material would be extracted from below the base of the subsoil to a depth where the material becomes too hard to be extracted using an excavator. The weathered shale material would be loaded into trucks for transportation to customers, stockpiled for subsequent sale and despatch, or used for rehabilitation-related purposes within the quarry. Once the hardness of the shale becomes too great to be ripped, drill and blast techniques would be used to extract the material which would be direct loaded into the processing plant using an excavator. All drilling and blasting-related activities will be conducted in accordance with the Drilling and Blasting procedures set out in the EMS (GHD 2010)".

2.5 Mineral Processing

All materials mined were processed in accordance with the current MOP 2015-2021.

From MOP 2.3.5 Mineral Processing

The quarry maintains the following infrastructure to carry out its operations:

- Three mobile crushers (jaw, cone and impact);
- Four excavators (three 35t excavators and two 38t Excavator);
- Three mobile screens
- Two Front end loaders.

The shale extracted from the quarry undergoes crushing, shaping, screening and blending with imported construction waste material.)

2.5.1 Importation of material for Blending

The following materials were imported and stockpiled for re-use in processing or backfilling to existing quarry void: for processing and blending into recycled and reusable products.

- Virgin Excavated Natural Material (VENM) for blending and processing into quarry products
- > VENM, top-soil, subsoil and weathered shale for quarry backfilling operations
- > Blending materials, such as crusher dust and road base, for processing into quarry products
- Recyclable materials, such as masonry construction waste (brick, cement roof tiles), concrete and asphalt.

In accordance with the mining leases, mining is planned to a depth of 30 metres with the maximum amount of shale material to be extracted while ensuring no resource sterilisation. The extraction area would then be backfilled with VENM and ENM to create a final, rehabilitated landform that would mimic the adjacent environment.

All material imported onto the quarry will be as per the Importation and use of Virgin Excavated Natural Material procedures as set out in our **EMS GHD (2010).**

"VENM/ENM is to be imported to the site for processing and blending to produce quarry products. VENM/ENM not used to make quarry products will also be placed within the 'exhausted' extraction area for rehabilitation purposes and to ultimately establish a final landform which mimics the pre-extraction landform."

The use of VENM as part of the rehabilitation process will be restricted to the use of VENM as defined in the NSW Protection of the Environment Operations Act 1997,

"Natural material (e.g. clay, gravel, sand, soil and rock) that is not mixed with any waste that:

- a) has been excavated from areas that are not contaminated, as the result of industrial, commercial, mining or agricultural activities, with manufactured chemicals and that does not contain sulphidic ores or soils. or
- b) consists of excavated natural materials that meet such criteria as may be approved by the EPA"

2.5.2 VENM/ENM Certificate and Receipt Procedures

- All imported VENM will be certified at its source and certification verified by the Mine Manager (or delegated authority) on receipt in accordance with relevant guidelines current at the time of VENM importation. This is likely to include a visual inspection for signs of contamination and the presence of any other waste material.
- A VENM certification sheet will be prepared, dated and signed by the person certifying the material.
- > The history of the site from which the material is to be excavated will be determined and recorded on the VENM certificate sheet. The following procedures will be implemented depending on the previous land uses.
 - Where the site has been used for commercial, industrial, mining or agricultural purposes at any time, or if the site contains fill material, or there is potential for chemical contamination from past or current uses, a testing regime will be implemented to establish that the material sourced from the site can be classified as VENM.
 - Where the site is, and has always been, used for residential or agricultural purposes then excavated material from the site, except for surface layers that may be

contaminated with physical debris, vegetation, chemicals, fertilisers or asbestos, will be presumed to be classified as VENM.

- Upon arrival, the Mine Manager (or delegated authority) will require the drivers delivering the VENM material to complete and sign a VENM record sheet. The Mine Manager (or delegated authority) will direct the driver to the receival area where the load will be inspected to ensure it corresponds with the description of the material included on the certificate sheet before it is accepted.
- Any unsuitable loads (i.e. loads that do not meet the description of VENM) will not be accepted and the supplier/driver will be advised to deliver the load to a licensed waste facility.

2.5.3 VENM Stockpiling

When VENM is being processed, it will be placed in the stockpiling and processing area. The environmental management measures for stockpiles detailed in Section 9 of the EMS will be applied.

All surface waters will be diverted into the water storage or sump within the extraction area.

2.5.4 VENM/ENM Placement and Compaction

- When VENM is to be used to backfill the quarry, the following procedures will be undertaken:
- > Compaction of VENM will not occur within approximately 3.5m of the proposed final landform.
- ➤ Between approximately 3.5 m and 1.0 m of the final landform VENM comprising weathered material is to be placed without compaction.
- > Between 1.0 and 0.5 below the final landform, weathered shale material will be placed without compaction.
- Sub-soil and top-soil will be placed over the VENM/weathered shale in accordance with the Landscape and Biodiversity Management Plan.
- Soils will be handled only when they are moist (neither wet, nor dry) to minimise the risk of soil structural decline.

2.5.5 VENM/ENM On-site Operations

- Water sprays and water trucks will be used in all areas of potential dust lift-off to minimise potential dust emissions.
- A maximum speed limit of 25 km/hour will be maintained within the quarry site.
- The width of haul roads will be limited to that which is safe for heavy vehicle passage to minimise soil erosion hazards.

2.5.6 Monitoring and Reporting

- During all VENM/ENM importation operations, records will be kept for each site where imported VENM/ENM is to be sourced and for each load of material received.
- Record sheets must be filled out at the source of VENM/ENM for transport to the quarry, and at the quarry for the receiving of VENM/ENM. Completed record sheets are to be stored and filed in a suitable location to facilitate the reporting, auditing, and "access to information" requirements specified in the Project Approval and EPL.

During the reporting period a total of 16,166.35t of material was imported and placed within the void. All records have been kept and are referenced within Appendix K. the plan of the location of the placement of the VENM/ENM has been provided in Appendix L.

2.6 Waste Management

As the facility is designed to minimise waste production long term there is minimal waste produced at the facility however the following waste is dealt with onsite and managed in accordance with current environmental guidelines

2.6.1 Scrap steel (ferrous metal) from concrete recycling.

The bulk scrap steel from the concrete is separated during pre-processing of the concrete, this material is then stored in bulk storage bins. During final processing of the concrete the steel is separated using a magnet to remove the final small amounts and stored in the same bulk storage bins. Once full the bin is replaced with an empty bin and the full bin is taken to the metal recyclers.

2.6.2 Waste timber, plastic, non-ferrous metals

During processing of imported concrete and brick/masonry products there can be other unwanted products in the final processed material, such as plastic, timber, ferrous and non-ferrous metals. However, there is an allowable amount of this type of material in the final processed product (RTA T276 – Foreign Material content of Recycled Crushed concrete). With our products, we endeavour to have 100% of foreign material removed from our finished product, we do this by a process of machine sorting and hand picking prior to crushing and sorting and picking after crushing. These materials are then sorted into various non-ferrous metal bins (copper, aluminium, steel) and or a rubbish bin. The recycled metal products are transported to the metal recyclers for recycling while the rubbish (plastic, timber etc.) is removed and disposed of at an approved waste disposal facility.

2.6.3 Lunch Waste and Food Scraps

All lunch waste and food scraps are placed in bins around the facility, those bins are then consolidated into a waste bin. This bin is then removed and disposed of at an approved waste disposal facility.

2.6.4 Asbestos Materials

All materials imported to site for disposal are handled per our asbestos management guidelines.

- The load is visually checked at the weighbridge for signs of asbestos contamination.
 If any asbestos is detected the load is refused and sent away. The date, time, truck and rego are all recorded. If no asbestos is identified the truck is permitted to tip onsite subject to another inspection after tipping.
- 2. The load is then taken down to the unloading station in preparation for tipping.
- 3. The load is then directed for tipping away from the main stockpile of material to be processed, to prevent any cross contamination.
- 4. The load is then tipped in the presence of quarry personnel who again inspect the tipped load for any signs of potential asbestos. If any asbestos is detected the load is reloaded and sent away. The date, time, truck and rego are all recorded.
- 5. The tipped load is then pulled up into the main stockpile while again checking for any signs of asbestos.
- 6. Further to this our guidelines have also been updated to comply with the "Standards for managing construction waste in NSW" introduced by the EPA on the 15th May 2019.

2.6.5 Ablutions

Currently utilise medium sized ablution facility that is for all staff currently onsite. This has male and female amenities. This pump out is regularly maintained and serviced by offsite contractor.

2.6.6 Waste Oils, Batteries

Waste oil from servicing is stored in two, 205L drums located in the sea container bund within the maintenance area. These drums are pumped out regularly with local oil recycling contractors. Batteries that are no longer functioning are removed and stored on pallets. A local recycling contractor for batteries attends site and disposes of the batteries.

2.7 Ore and Product Stockpiles

All stockpiled material is managed in 4000t stockpiles. These stockpiles are situated on the floor of the current blasting area. All sales are managed and loaded from the stockpile floor. This area is not exposed to winds and dust generation. There are numerous stockpiles onsite that are stored in preparation for sales in meeting client demand.

2.8 Water Management

Any water that accumulates from the main extraction zone is pumped up to the main water storage buffer dam. Which is processed through the Reverse Osmosis Plant, this water is then used for dust management and suppression, wheel washes, in stockpiles and for cleaning of equipment.

2.9 Hazardous Material Management

No hazardous materials are stored on the mine site.

- Fuel for machinery is brought to site as required, all refuelling is serviced via a dedicated plant refuelling truck.
- The blasting contractor only brings explosives to site on the day required.

Thus, eliminating the need to store any hazardous materials onsite.

2.10 Production Quantities and VENM/ENM importation for Emplacement in Void

Table 2 - Production and Waste Summary Against Approvals

Process	Start of Reporting Period (July 2022)	At end of Reporting Period (June 2023)	End of next reporting (estimated)
Topsoil Stripped	22,680	22,680	22,680
Topsoil Used/Spread	22,680	22,680	22,680
Waste Rock	Nil	Nil	Nil
Ore	1,901,358	2,050,968	2,200,000
Processing Waste	18	18	18
Product	1,901,358	2,050,968	2,200,000
VENM/ENM importation (tonnes)	259555	274950	295000t

Schedule 2 Condition 8	At end of Reporting	Schedule 2 Condition 8
Approval	Period (June 2023)	Approved Quantity
8(a) Extracted materials (clay shale/structural clay)	359,066	364,000t
8(b) Recycling materials	26,178	50,000t
8(c) Blending materials	77,741	125,000t
8(d) VENM/ENM importation	15,395	200,000
8(e) Dispatched materials (natural and blended	463,045	500,000
materials)		

Table 3 - Stored Water

	Volumes held (d	Volumes held (cubic metres)		
	Start of Reporting Period	At end, of Reporting Period	Storage Capacity	
Clean water	10000 est.	10000 est.	103000	
Dirty water	Nil	Nil	Nil	
Controlled discharge water	N/A	N/A	N/A	
Contaminated water	N/A	N/A	N/A	



3. ENVIRONMENTAL MANAGEMENT AND PERFORMANCE

3.1 Blasting Monitoring

Eight blasts were carried out in the AEMR reporting period 1st July 2022 through to 30th June 2023. All blasts were monitored in accordance with the blast management plan, blast controls and project approval. No results were recorded outside the approved limits for vibration and overpressure. All results were analysed at the completion of each blast and forwarded to the DECCW information and verification. See tables and charts below and results attached in appendix C

Blasting controls include the following.

- The police, Shoalhaven City Council, NSW Roads and Traffic Authority, Environmental Protection Agency and the resident occupying the house immediately to the south of the quarry site are notified verbally at least 24 hours prior to the initiation of each blast.
- ➤ The drill hole spacing, burden distance, stemming length, maximum instantaneous charge is carefully designed and implemented by the blasting contractor to ensure that ground vibration and air blast do not exceed the Project Approval Controls criteria and that there is no danger to motorists using the Princes Highway.
- Each blast is monitored at the nearest residence, adjacent to jail, adjacent to commercial premises and north of brickworks and subsequent blast designs are modified if required considering the blast monitoring.
- > Records of each blast monitored have been stored for future reference and are attached to this report.
- All blast monitors are downloaded, and the results analysed at the completion of each blast. Checking for any exceedances of the reporting criteria. Precision Drill and Blast rely on this information for future blasting design and this information enables them to determine if any modifications to the MIC (Maximum Instantaneous Charge), drill pattern and overall blast design are required. (See attached letter and blast reports in Appendix C)
- All drilling and blasting-related activities will be supervised by a suitably qualified and experienced blasting engineer or shot-firer.

As per Section 14.3.1 of our EMS (GHD 2010)

Blasting is to be designed to:

- Achieve the required degree of fragmentation;
- Satisfy all environmental criteria (especially noise and vibration,)
- Contain all blast fly rock within the nominated blast envelope.
- ➤ Blast emissions will be quantified using a portable blast emissions monitor (measurement of air blast and vibration, which will be positioned at the nearest potentially affected residences and other blast emission sensitive receivers to the plant operations as identified in the Project Approval. Blast monitoring instrumentation will be employed to meet the primary specifications presented in the Noise Monitoring Program/Blast management Plan.
- > The Blast Design Record Sheet is to be filled in for individual blast events.

3.1.1 Blasting Analysis (Ground Vibration)

Table 4 - Blasting Ground Vibration Results

July 2022 – June 2023 AEMR Ground Vibration – Results – Residential				
Date	Correctional Centre	Goodsell Residence	Peak Vector Sum Reporting Limit	
16/08/2022	0.682	3.657	5	
6/10/2022	4.195	4.303	5	
29/11/2022	2.353	0.695	5	
11/01/2023	3.84	3.96	5	
9/03/2023	2.983	3.2	5	
24/03/2023	3.886	4.869	5	
18/05/2023	1.258	2.966	5	
15/06/2023	4.118	2.198	5	

Table 5 - Blasting Ground Vibration Results

July 2022 – June 2023 AEMR Ground Vibration – Results – Commercial				
Date	North of Brickworks	Commercial Premises	Peak Vector Sum Reporting Limit	
16/08/2022	0.781	5.936	25	
6/10/2022	0.912	2.185	25	
29/11/2022	0.116	5.825	25	
11/01/2023	0.63	4.773	25	
9/03/2023	0.749	3.772	25	
24/03/2023	0.603	2.457	25	
18/05/2023	0.047	7.773	25	
15/06/2023	0.467	5.843	25	

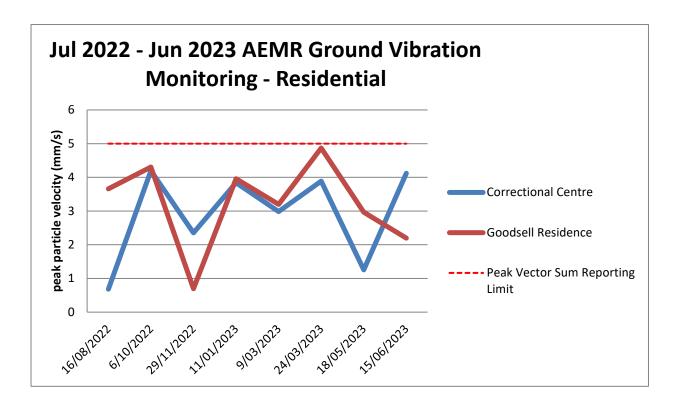
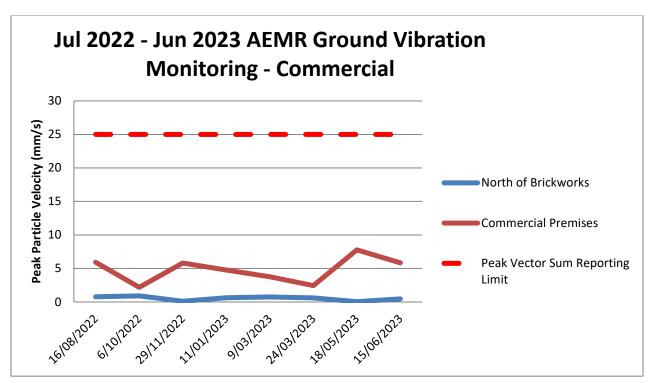


Chart 2 - Commercial Ground Vibration



3.1.2 Blasting Analysis (Air Blast Overpressure)

Table 5 – Residential Overpressure

July 2022 – June 2023 AEMR Air Blast Overpressures – Residential				
Date	Correctional Centre	Goodsell Residence	Peak Overpressure Reporting Limit	
16/08/2022	104.9	111.2	115	
6/10/2022	110.8	110.6	115	
29/11/2022	105.5	100	115	
11/01/2023	107.8	102	115	
9/03/2023	112.8	109.5	115	
24/03/2023	108	105.5	115	
18/05/2023	106.8	110.9	115	
15/06/2023	112	114	115	

Table 6 – Commercial Overpressures

July 2022 – June 2023 AEMR Air Blast Overpressures – Commercial						
Date	North of Brickworks	Commercial Premises	Peak Overpressure Reporting Limit			
16/08/2022	113.1	109.9	125			
6/10/2022	107.7	114.1	125			
29/11/2022	108.4	108.4	125			
11/01/2023	98.5	107	125			
9/03/2023	106	108.1	125			
24/03/2023	102.8	116.7	125			
18/05/2023	104.7	109.5	125			
15/06/2023	101	111	125			

Chart 3 - Residential Overpressure

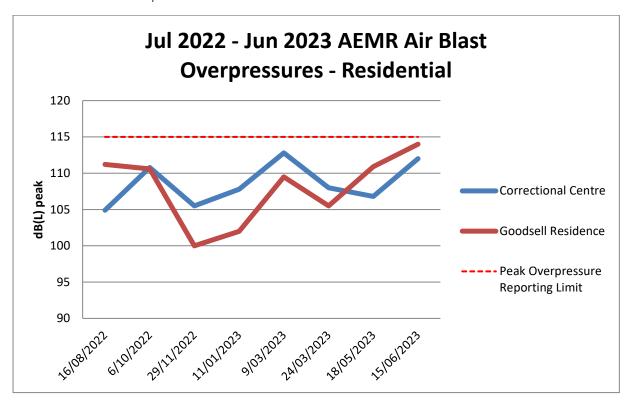
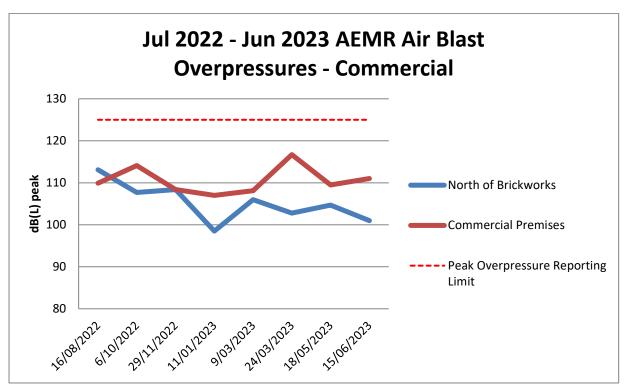


Chart 4 - Commercial Overpressure



3.1.3 Blasting Summary

The blasting program has been successful over this reporting period. This is based on maintaining small blasts onsite and ensuring the project criteria (ground vibration and overpressure) had not been exceeded during this reporting period. The results will continue to be closely monitored after each blast to assess blasting requirements for future blasts. We have now shown 9 consecutive AEMR reporting periods total of 73 blasts that we have been able to maintain project compliance. The number of blasts this reporting period decreased from 9 blasts to 8. The number of blasts in the period was below the forecast 1 per month with slightly less demand. We anticipate that we will be in the range of 8-10 blasts in the next reporting period. This would still fall well within our project approval with permission to blast weekly. All blasts will continue to be kept small to keep air blast overpressures and ground vibration to a minimum.

3.2 Noise Monitoring

Noise monitoring was undertaken during this reporting period. This recommenced this year after it was identified that this was deficient in the previous reporting periods. Noise monitoring was required to be undertaken during 4 periods of monitoring to verify compliance with Schedule 3 Part 2 (Operational Noise Criteria). However due to Dick Godson retiring the schedule was not passed on. 3 periods were completed, March being missed. We have now scheduled all remaining periods with Sean O'Shea to ensure that 4 quarterly monitoring periods are undertaken.

3 sets of attended noise monitoring was undertaken. The monitoring was undertaken by Dick Godson of SLR Consulting Australia Pty Ltd on the 28th October 2022, 22nd December 2022 and by Sean O'Shea pf SLR Consulting Australia Pty Ltd on the 16th June 2023. (Reports attached in Appendix D).

The surveys were carried out in accordance with the EMS and the MOD 2 Project Approval conditions. With monitors being located monitoring stations 1,2,4 and 5. (as per EMS requirements).

All surveys indicated that the quarry had not exceeded any of the "noise impact assessment criteria" at any locations.

Table 8 - Noise Emission Testing

July 2021 – June2022 Noise Monitoring						
Date	Location 1 – 80 links Road	Location 2 – 371 Old Southern Road	Location 4 – 243 Princes Highway	Location 5 – South Coast Correctional Facility		
28/10/2022	<31 dBA	<36 dBA	48 dBA	45 dBA		
22/12/2022	<34 dBA	<37 dBA	48 dBA	47 dBA		
16/06/2022	<26 dBA	<30 dBA	47 dBA	<30 dBA		
Noise Emission Criteria	39 dBA	45 dBA	49 dBA	51 dBA		

3.2.1. Noise Summary

From the noise attended surveys carried out on the 28th October 2022, 22nd December 2022 and the 16th June 2023 it has been clearly demonstrated that the noise emissions generated by the quarry are well within the Project Approval conditions and barely register any impact above the ambient noise of the area.

3.3 Air Monitoring

Airborne dust within the quarry site is generated predominantly through crushing and screening activities, vehicle movement on haul roads, stockpiles and exposed surfaces on the site impacted by westerly winds predominately.

A range of air quality controls are currently undertaken at the Nowra Brickworks Quarry and will continue to be implemented for the term of approval.

- The processing plant is currently fitted with dust suppression equipment and this equipment would continue to be used whenever the plant is operational.
- On-site roads, hardstand areas, stockpiles and exposed surfaces are and will continue to be regularly watered using a water cart or sprinklers. Water for this purpose is sourced from water within the extraction area or the Water Storage Dam.
- The loads of trucks carrying material to or from the quarry site on public roads are and will
 continue to be covered.
- Two automated wheel washes have been constructed in conjunction with shaker grid has been improved and utilises several sprays on all vehicles exiting site.

See appendix E with attached results. These have been analysed and collated in the following charts and tables DDG, TsP and Pm10.

Sprinklers and sprays have also been set up to manage dust on the Eastern boundary and stockpiles impacted by westerly winds and increased vehicle movements along haul road.

3.3.1 Dust Deposition Gauges (DDG)

The DDG reporting criteria of 4 g/m2.month was within limits during the July 2022 – June 2023 AEMR reporting period.

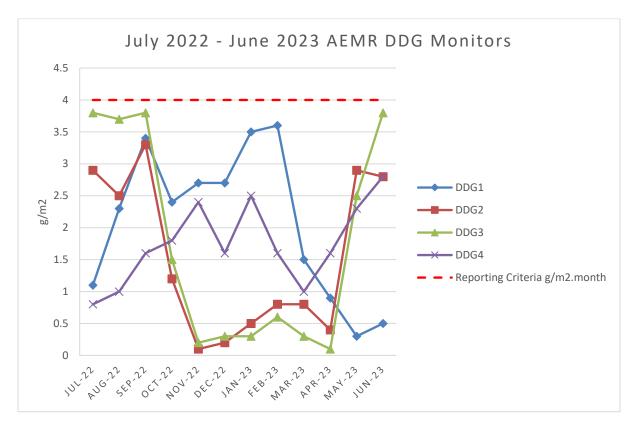


Chart 5- DDGs

3.3.2 TsP High Volume Samplers

The TsP Annual Average limit (90ug/m3) was not exceeded during the reporting period (July 2022 – June 2023).

July 2022 - June 2023

TsP Annual Average – South (22.5 ug/m3) an increase of 12.0 ug/m3 from the previous reporting period.

TsP Annual Average – North (27.6 ug/m3) an increase of 15.2 ug/m3 from the previous reporting period.

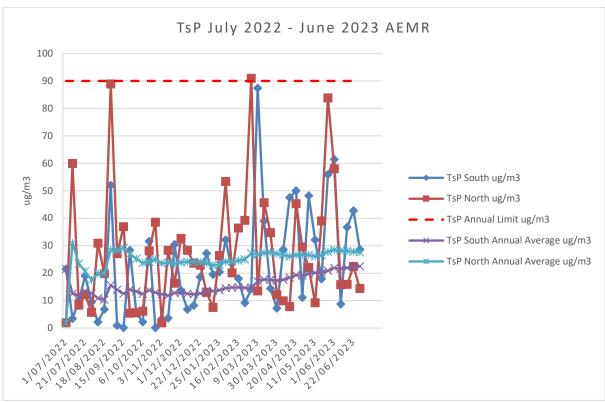


Chart 6 - TsP

3.3.3. Pm10 High Volume Samplers

The Pm10 Annual Average limit (30ug/m3) and the 24hr limit (50ug/m3) were not exceeded during monitoring during this reporting period.

The maximum values recorded for North and South were 24.9ug/m3 and 31.4ug/m3 which were below the 50ug/m3 allowable limit.

July2022 - June2023

Pm10 Annual – South (7.3ug/m3) an increase of 0.01ug/m3 for the reporting period.

Pm10 Annual – North (7.9ug/m3) with no increase for the reporting period.

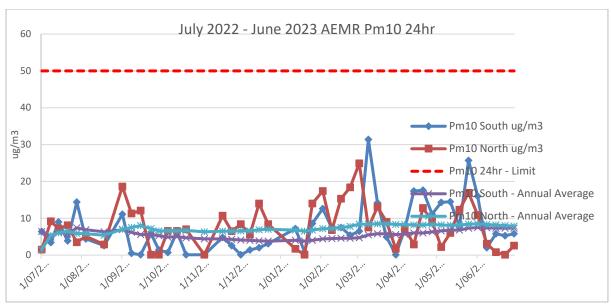


Chart 7 - Pm10 24hr and annual average

3.3.4. Dust Summary

For the majority of the operations during the reporting period there were no adverse effects in regards to generating additional dust during quarrying operations. There was one complaint during the reporting period, which was on a day with winds in excess of 80km/h. The complaint was addressed promptly. We have been working through dust mitigation and management measures onsite and will continue to do so.

The Pm10 and TsP annual average limits are still currently below the approval limits and there were not any spot exceedances during the reporting period.

3.4 Erosion and Sediment Control Monitoring

3.4.1 Nowra Brickworks Quarry

Erosion and sedimentation control at the Nowra Brickworks Quarry revolves around:

- · diversion of 'clean' surface water runoff away from disturbed areas; and
- capture and retention of 'dirty' water flowing from disturbed areas of the quarry site.
- · Sedimentation fencing around soil stockpiles
- Sedimentation fencing to Nowra Creek Riparian protection zone

Attached in appendix F is the sedimentation monitoring logs for the AEMR monitoring period.

3.4.2 Flat Rock Quarry

Nil works were conducted at flat rock quarry during the reporting period.

3.5 Landscape and Biodiversity Monitoring

3.5.1 Weed Management

Continuous secondary weed management was carried out by Proust Land Services in September 2022 - May 2023. This is continuing to have an improved impact on the land management as we have achieved continual improvement in concerted effort on declining weed density and population.

September 2022 – Weed Control					
Common Name	Control	Location / Density	Extent/propagation since last visit		
African Scurf Pea	Cut/Paint	Eastern boundary	Scattered seedlings		
Asparagus Fern (WoNS) N	Hand dug crown (bag crown & remove off site)	Western boundary	Scattered seedlings		
Blackberry	Cut/paint & Manual	Western boundary	scattered		
Castor Oil Plant	Hand pull seedlings, Cut/paint larger plants.	Eastern boundary	Scattered with medium patches		
Cestrum			None Present		
Cotton Bush	Hand dug	Western boundary			
Crofton Weed (N)	Hand pull seedlings, Cut/paint larger patches & spray dense patches on western boundary	Western Boundary	Medium with dense patches.		
Fennel	Hand dug	North West corner			
Lantana (WoNS)	Hand pull seedlings, Cut/paint larger plants	Western boundary	Sparse to occasional		
Madeira Vine (N)	Spot Spray	Western Boundary	Several patches		
Moth Vine	Hand pull (bag & remove fruit off site)	All boundaries	Sparse		
Senna	Cut/paints/hand pull	Eastern boundaries	Scattered seedlings		
Spear Thistle	Cut/paint / spray	All boundaries	Scattered		
Tobacco Bush	Cut/paint / Hand dug	All boundries	Scattered		
Turkey Rhubarb	Hand dug	Western boundaries	Scattered		
Annuals such as Fleabane, Paddy's Lucerne	Spray	All areas			
No Camphor Laurel or I	Bitou Bush recorded this time				

Common Name	Control	Location / Density	Extent/propagation since last visit
Agapanthus	Cut/Paint, Manual remove	Eastern Boundary	Scattered seedlings
Asparagus Fern (WoNS) N	Hand dug crown (bag crown & remove off site)	Western boundary	Scattered seedlings
Blackberry	Cut/paint & manual	Eastern & western boundary	Scattered small plants
Bitou Bush	Not recorded		
Castor Oil Plant	Hand pull seedlings, Cut/paint larger plants.	Eastern boundary	Scattered with medium patches
Crassula	Hand Dug	Southern Boundary	Scattered patches
Crofton Weed (N)	Hand pull seedlings, cut paint larger plants	Eastern & Western Boundary	Medium Patches
Euphorbia	Hand pull	Eastern Boundary	Scattered patches
Fennel	Hand Dug	North west corner	·
Lantana (WoNS) N	Hand pull seedlings, Cut/paint larger plants	Western boundaries	Sparse to occasional
Madeira Vine (N)	Spot Spray after site prep	Western Boundary	Several patches
Moth Vine	Hand pull (bag & remove fruit off site)	All boundaries	Sparse
Polygala	Cut/Paint	Eastern Boundaries	Several patches
Senna	Cut/ Paint/Hand pull	Eastern boundary	Scattered seedlings
Spear Thistle	Cut/paint / spray	All boundaries	Scattered
Spider plant	Not recorded this round		
Tobacco Bush	Cut/paint / Hand dug	All boundaries	Scattered
Turkey Rhubarb	Hand dug Spray prep	Eastern & Western boundaries	Increasing
Annuals such as	Hand pull/ spray prep & spray	All area	
Fleabane, Paddy's Lucerne			
Exotic grasses mainly paspalum	Manual removal and some sprayed		Follow up

3.5.2 Site Reference Photos

July 2022





Figure 1

June 2023





3.5.3 Landscape and Biodiversity Summary

The site is generally in healthy condition. Weed control activities will continue during the July 2023-June 2024 AEMR reporting period and the site will be monitored every 6 months for any new or increase in weed populations.

3.6 Aboriginal heritage monitoring.

No requirement for any specific aboriginal monitoring work was required the AEMR reporting period.

3.7 Surface water monitoring

Surface water monitoring was carried out in accordance with the EMS throughout the AEMR monitoring period from the 1st July 2022 to 30th June 2023. Previous analysis of the baseline data by SEEC concluded that the quarry had no impact on the existing Nowra creek with high readings occurring at the control location (C1) and most data had no correlation to the surface water tested within the quarry at locations S4 and S5. As reported in last 2021-2022 AEMR further extrapolation of the results in this AEMR reporting period continue to show no correlation between water results between the quarry and Nowra Creek. The results continue to show a large difference between the water found within the extraction area of the quarry (S5) and those within the creek (C1, C2 and C10). The results of the surface water runoff of the quarry (S4) are similar to those within the creek as it is a result of overland water flow. Generally, the results are higher at the control point C1 for the creek compared to those of S4.

3.7.1 pH

The pH of the water within the quarry extraction area (S5) was found to be in the 7.32-8.30 range which is consistent with previous collected baseline data, while water within the creek had results ranging from 5.83 – 7.37. (see chart below).

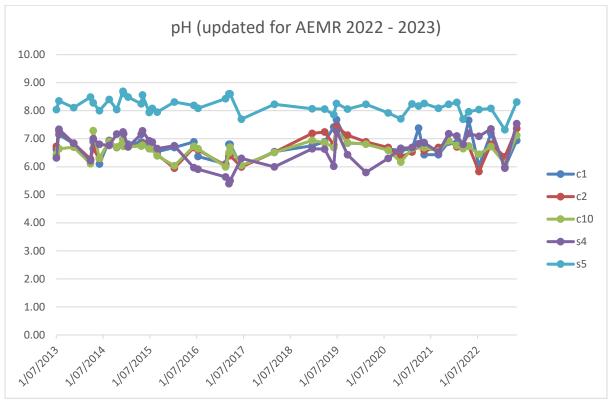


Chart 8 - Surface Water pH

3.7.2 Electrical Conductivity

Electrical conductivity of the water within the quarry (test location S5) recorded EC values up to 4130 us/cm and had reduced to 1720. The results in the creek (97-496) were found to be very low and show no correlation with the water within the quarry. (see chart below)

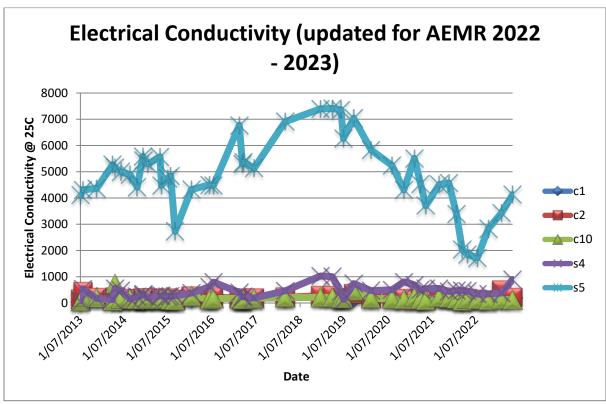


Chart 9 - Surface Water EC

3.7.3 Iron

Iron readings have remained consistent throughout the AEMR (2022-2023) reporting period with results maintaining previous baseline levels. The main water body within the quarry has a low detectable limits of iron with the highest reading at 0.74.

3.7.4 Aluminium

Aluminium readings recorded were similar to that of iron with low readings recorded in the main quarry water body (S5) either at zero or well below all other results during the reporting period (2022-2023). The creek results are again correlated closely with those of the control location (C1) for the creek. There was a high reading at monitoring location S4 with no correlation to the creek.

3.7.5 Arsenic

As with previous reporting Arsenic recorded zero or negligible results for all locations.

3.7.6 Zinc

The results within the creek are generally following the creek control point (C1). C1 results were above the reporting limit of 0.015 in 2 reporting periods and C10 above the reporting limit of 0.015 in 1 reporting period. The highest results were recorded at the control point C10 with results very similar or decreased downstream.

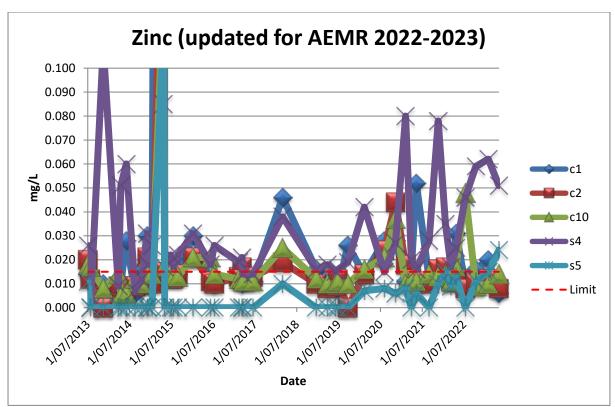


Chart 10 - Surface Water Zinc

3.7.7 Nitrate

As with previous AEMR results Nitrate values recorded in the creek were within the accepted guidelines there where high levels recorded in the main quarry body with no correlation to results located in the creek.

3.7.8 Ammonia

Ammonia recorded decreased values at C1 and the main creek during the reporting period from last reporting year. All results are within the acceptable limits during the reporting period.

3.7.9 Phosphorus

Highest recorded results in the reporting period were identified at C1 and S4 the main water body within the quarry S5. While C1, C2 and C10 were all closely correlated with C2 being the lower value but above the reporting threshold.

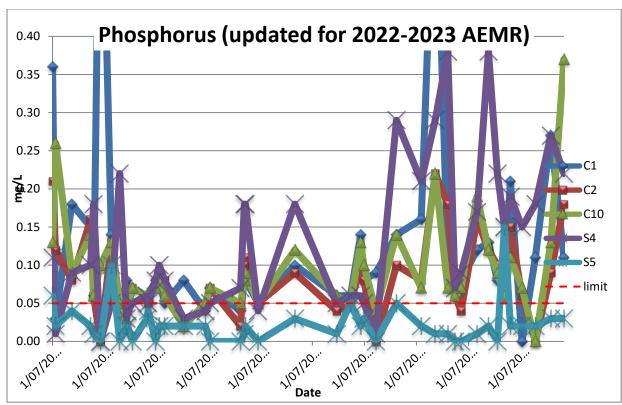


Chart 11 - Surface Water Phosphorus

3.7.10 Surface Water Summary

As with SEEC's report "Review of Water Quality Monitoring" from AEMR (2014-2015) the results are consistent in this reporting period and the quarry is having little to no impact on the water health of Nowra creek with no correlation between water tested within the quarry and that of Nowra creek. Monitoring will continue as per our EMS (GHD 2010).

3.8 Ground water monitoring

Samples of Chart results for groundwater monitoring carried out during the AEMR reporting period (2022-2023). The results have been included with the baseline charts to allow ease of analysis showing change over time

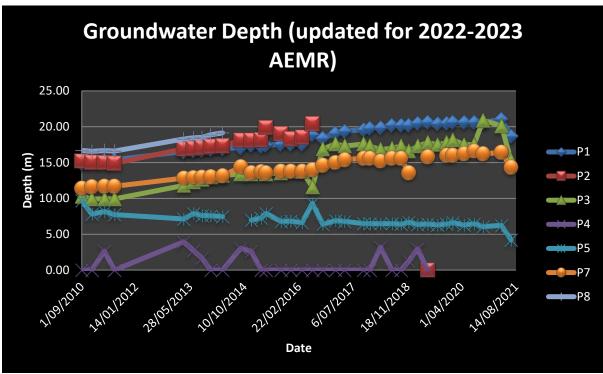


Chart 12 - Groundwater Depth

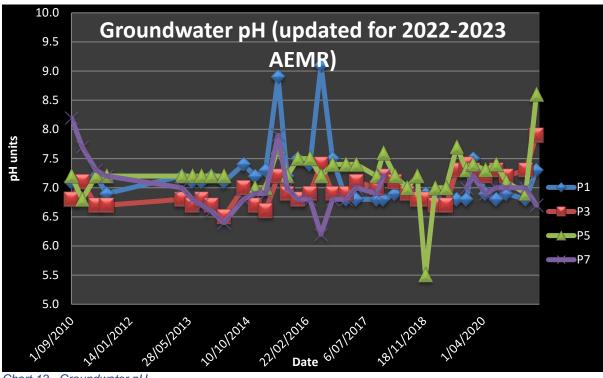


Chart 13 - Groundwater pH

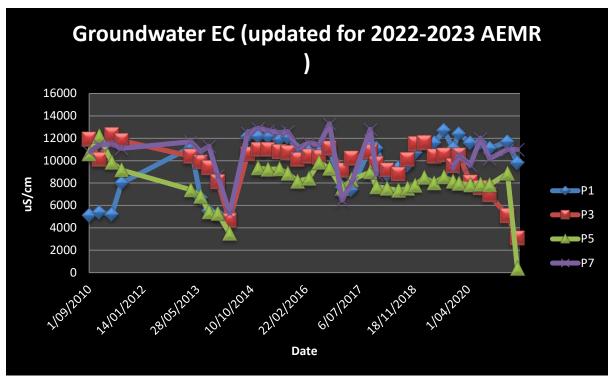


Chart 14 - Groundwater EC

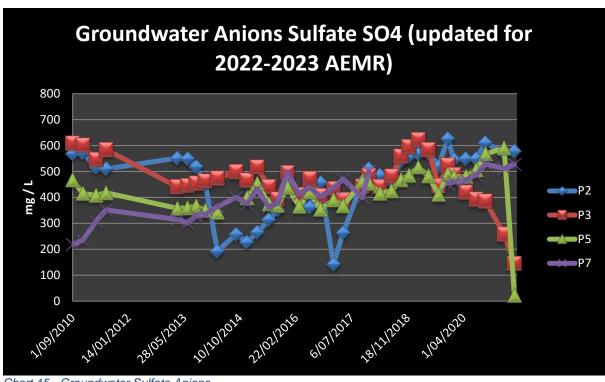


Chart 15 - Groundwater Sulfate Anions

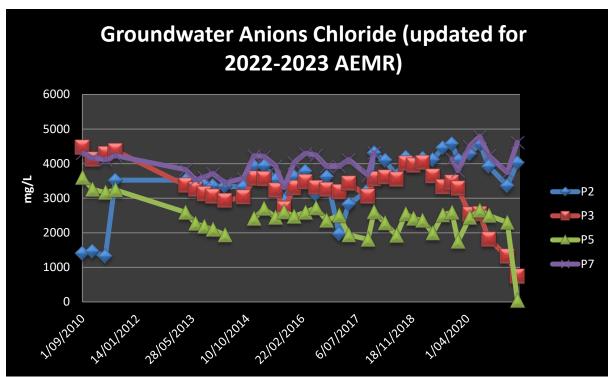


Chart 16 - Groundwater Chloride Anions

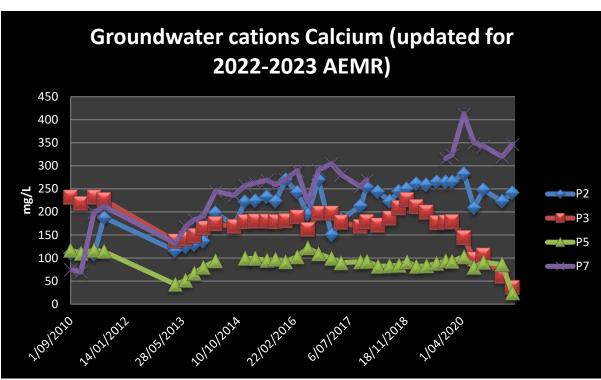


Chart 17 - Groundwater Calcium Cations

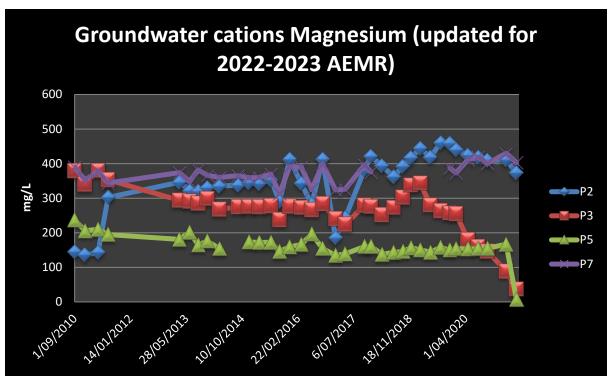


Chart 18 - Groundwater Magnesium Cations

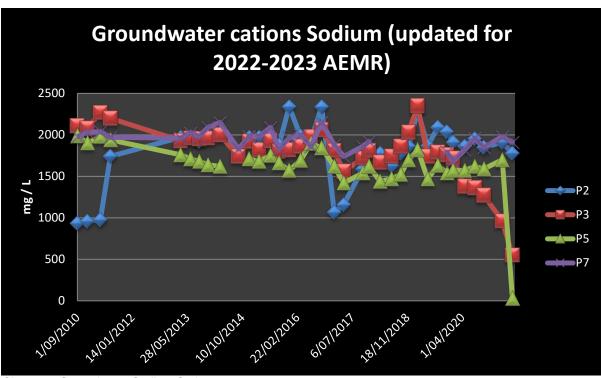


Chart 19 - Groundwater Sodium Cations

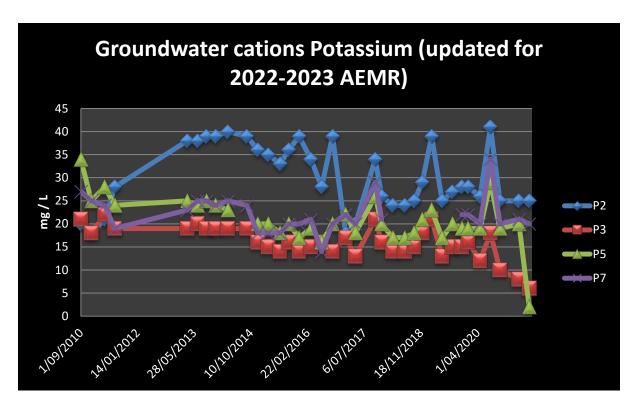


Chart 20 - Groundwater Potassium Cations

3.8.1 Groundwater Monitoring summary

Groundwater monitoring results indicate potential impact or effect of rainwater results on piezometers P2 and P4 arrangements have been made for verification and assessment of the wells in these locations, as they may have potentially been damaged. SEEC will also be engaged to review the results and provide commentary. Monitoring will continue as per the EMS (GHD). Results will continue to be graphed for ongoing analysis and ease of reference for any correlation in change.

3.9 Nowra Creek Health monitoring

During sampling for surface water monitoring, photos are taken at monitoring locations C1, C2 and C10. These are for ongoing assessment of Nowra Creek Health Monitoring.

3.9.1 Health Monitoring Photos 12th July 2022



Figure 1 - Monitoring Location C1 – 12th Jul 2022



Figure 2 - Monitoring Location C2 - 12th Jul 2022



Figure 3 - Monitoring Location C10 – 12th Jul 2022

3.9.2 Health monitoring photos 13th October 2022



Figure 4 - Monitoring Location C1 13th October 2022



Figure 5 - Monitoring Location C2 13th October 2022



Figure 6 - Monitoring Location C10 13th October 2022

3.9.3 Health monitoring photos 30th January 2023



Figure 7 - Monitoring Location C1 30th January 2023



Figure 8 - Monitoring Location C2 30th January 2023



Figure 9 - Monitoring Location C10 30thJanuary 2023

3.9.4 Health monitoring photos 3rd May 2023



Figure 10 - Monitoring Location C1 3rd May 2023



Figure 11 - Monitoring Location C2 3rd May 2023



Figure 12 - Monitoring Location C10 3rd May 2023

3.9.5 Creek Health Monitoring Summary

The creek has had no visible changes at any of the three monitoring locations C1, C2 and C10 during the reporting period. There are no signs of increased scour, contamination or any other adverse effect occurring at these locations.

3.10 Aboriginal Heritage

Also, included in section 3.6

3.11 Natural Heritage

No Natural artefacts were found or identified during the reporting period.

3.12 Spontaneous Combustion

Not applicable to mine

3.13 Bushfire

The following bushfire-specific management controls have been implemented and enforced.

- On-site bushfire fighting facilities have been provided and maintained.
- Bushfire fighting equipment is operational for fire fighting purposes at all times.
- Firebreaks and fire tracks have been maintained.
- Sufficient water resources have been maintained within the quarry site for fire fighting purposes.

Fuel loads are monitored and fuel reduction programs will be implemented where necessary.

3.14 Mine subsidence

No signs of mine subsidence were evident during the reporting period.

3.15 Hydrocarbon contamination

Management controls for preventing or minimising hydrocarbon contamination of water and/or land were carried out in accordance with the MOP and our updated PIRMP as per EPA guidelines and requirements. This document is available on our website as per EPA requirements also. (From MOP...

Existing and Additional Control Strategies

- Control strategies to manage hydrocarbon contamination at the quarry are defined in the following sections of GHD (2010):
- ➤ 4 Emergency Response; and
- ➤ 10.2 Loading, Despatch and Transportation.
- > The main controls to reduce the impacts of hydrocarbon contamination from site activities are:
- Implementation of a Nowra Brickworks Quarries Mine Safety Plan;
- Training of employees in the Safety Plan;
- Notification of environmental harm to the DECCW hotline; and
- Maintenance of all mobile equipment to manufacturer's specifications.)

(EMS GHD 2010...

4. Emergency Response

Response to an emergency is to be in accordance with the Nowra Brickworks Quarries Mine Safety Plan, prepared in accordance with the NSW Mine Health and Safety Act 2004. Emergency procedures are located in the SCCCR main office.

The following procedures relate to environmental emergencies which are not covered by the quarry's emergency plan and procedures, i.e. spills and environmental harm.

4.1 Spills

The principal potential sources of soil or land contamination at the quarry is from spills or leaks of hydrocarbons (fuel, oil, grease, etc.). The following pollution control measures will be implemented during the life of the Project:

- Employees will read the quarry's Environmental Response Plan for fuel and oil spills, and will refer to the Material Safety Data Sheets (MSDS) located next to the first aid kit located in SCCCR main office.
- > During fuelling, the following will be observed: Fuelling will be undertaken carefully to minimise drips on the ground;
 - Fuelling will be undertaken in a suitable area away from access areas and drainage lines or water courses;
 - Persons undertaking the fuelling will remain present during the entire fuelling operation; If necessary, the emergency shut off switch for plant and machinery is to be used; A spill kit will be kept at or near each fuelling area and on the fuel truck; Spills and dirty absorbent materials will be cleaned up; Fuelling equipment will be inspected for cracks, leaks, corrosion or failure; and Small equipment will be fuelled over a paved or concrete area, away from any
- Stormwater drains or ditches, and a funnel will be used when pouring fuel from a portable can.
- Any affected stormwater drains on site will be located and blocked. Spilled fuel will be prevented from reaching drains or waterways.
- Any spills will be cleaned up thoroughly and promptly. The Dry Method (refer to the Emergency Response Plan will be used for cleaning up fuel spills (diesel or kerosene).
- If fuels are leaking or have spilled on an impermeable surface, the nearest down gradient drain will be diked or bermed to prevent fluids from flowing. Absorbent material from the spill kit will be applied on the spill area, and after cleaning up the contaminated absorbent material will be swept up, and the berm or dike will be removed from the stormwater drain.
- If fluids are leaking or have spilled on a permeable surface, the area will be marked and assistance will be sought to clean up.
- > Spills or leaks will never be hosed down.
- Any spill kit materials will be disposed of in accordance with EPA guidelines.
- Any spill or discharge of any pollutant will be reported to the Mine Manager. If a spill or leaks of a hazardous substance that exceeds 500 mL, is an unknown substance of any amount, or a spill is too great to control, the NSW Fire Brigade will be called on 000.
- All applicable employees will be trained in general water pollution prevention and spill response, and a record of the employees trained will be kept.
- > A current copy of the Spill Response Plan will be maintained in the SCCCR main office.

3.16 Methane drainage/ventilation

Not applicable

3.17 Public safety

The Nowra Brickworks Quarry is located in an area with extensive industrial development and adjacent to a major public road. As a result, public safety, including the safety of employees and contract truck drivers, is an important issue for the proper management of the quarry. The following management controls have been implemented and enforced to manage this safety issue.

- The front gate is locked outside the hours of operation and whenever the quarry site is not occupied.
- The perimeter bunding is maintained to ensure that the only vehicular access to the quarry site is via the front gate.
- Infrared and Motion sensing cameras have been installed at the weighbridge and front entrance gates, as well as within the vehicle maintenance compound. These are then programmed to send warning messages to appropriate quarry officer outside the approved hours of operation.
- Warning signs will continue to be prominently displayed around the perimeter and within the quarry site.

- Concrete blocks will continue to be placed adjacent to the perimeter of the extraction area in areas where vehicles or people may be working.
- 25km/h speed signs have been erected and site management enforces speed limits.
- All employees and contractors working within the quarry site will be required to complete
 a site induction.
- Visitors are required to complete a visitor's induction and sign a visitor's book indicating their time of arrival and departure.
- All employees, contractors and visitors are required to wear personal protective equipment, namely hard hats, safety glasses, steel cap boots and reflective vests. This equipment will be supplied to individuals who do not have their own.
- All communication between mobile equipment within the quarry site is by UHF radio. All
 mobile equipment owned or operated by SCCCR is fitted with a UHF radio. A handheld
 UHF radio is supplied to any transport contractor who does not have a UHF radio fitted to
 their vehicle.
- No truck drivers are permitted to leave the cab of their truck while the vehicle is within the
 extraction or processing areas. A designated area for covering loads will continue to be
 provided.
- All trucks carrying material to or from the quarry site on public roads will have their loads covered to prevent material falling from trucks.
- The quarry entrance and adjoining highway shoulder are continually monitored and any spillage is removed immediately.

The Company maintains a register of any complaints it receives from the public, such as speeding trucks or generally unsafe or discourteous driving or quarry vehicles.

3.20 Other issues and risks

No other issues or risks were identified during the reporting period.



4. COMMUNITY RELATIONS

4.1. Community Consultative Committee (CCC)

As per the previous AEMR no Community Consultative Committee has been formed as there had been no interest from external parties. We have heavily advertised when our previous mod2 project approval was undertaken. No requests have been made since to form a committee, nor any responses to our permanent expressions of interest link located on our website. As such there were no meetings during the reporting period. SCCCR will continue to advertise on our website for interested parties to form a CCC.

4.2. Complaints

One complaint was reported to Matt Davidson from the EPA on the 26/06/2023 regarding dust leaving the premises. This was an extremely windy day (over 80km/hr) and we had dust control operational and had ceased crushing operations as soon as the wind had increased and were utilising our onsite sprinklers and water cart to manage this as much as possible. For future predicted high wind events further inspection and dust loc to any exposed soil will be undertaken.

This was the only recorded complaint.



5. REHABILITATION

During this reporting period works continued within the stage 3 of the project Staging plan with backfilling of the void well underway in stage 2.

VENM and ENM has continued to be imported throughout the reporting period and the void has been progressively filled. Unusable overburden material containing tree roots was also used to fill the existing void. Appendix L contains the VENM / ENM certificates and importation records for the material imported to the void. Appendix M contains the plan of the VENM/ENM emplacement during the reporting period.

As per section 7 Rehabilitation of the 2015-2021 MOP it is anticipated that only the section of Domain 6 (voids) will undergo progressive rehabilitation as the area is filled.

Table 7 - Mine Rehabilitation Summary

Cumulative Area Affected (hectares)						
To date	Last report	Next				
		Report				
		Report (estimated)				

A: MINE LEASE AREA

			_		
A1	Mine Lease(s) Area	22.028ha			
B: DISTURBED AREAS					
B1	Infrastructure area other	2.4 ha	2.4 ha	2.4 ha	
distu	rbed areas to be rehabilitated at				
closu	re including facilities, roads				
B2:	Active Mining Area	12.0 ha	10.7 ha	12.0 ha	
exclu	iding items B3 - B5 below				
B3	Waste emplacements,	0.7 ha	0.7 ha	0.7 ha	
activ	e/unshaped/in or out-of-pit				
B4	Tailings emplacements,	1.4 ha	1.4 ha	1.4 ha	
activ	e/unshaped/uncapped. These areas				
curre	ntly sit within active mining area B1				
B5	Shaped waste emplacement	0.70 ha	0.70 ha	0.70 ha	
(awa	its final vegetation)				
ALL DISTURBED AREAS		16.5 ha	15.7 ha	16.5 ha	
C REHABILITATION PROGRESS					
C1	Total Rehabilitated area	4.85 ha	4.85 ha	4.85 ha	
(com	pleted)				
D: REHABILITATION ON SLOPES					
D1	10 to 18 degrees	Nil	Nil	Nil	
D2	Greater than 18 degrees	Nil	Nil	Nil	
E: SURFACE OF REHABILITATED LAND					
E1	Pasture and grasses				
E2	Native forest/ecosystems	4.85 ha	4.85 ha	4.85 ha	
E3					
E4	Other (include non-vegetative	1.1 ha	1.1 ha	1.1 ha	
outcomes)					

Table 8 - Maintenance Activities on Rehabilitated Land

	Area Treated (ha)		
NATURE OF	Report	Next	Comment/control strategies/
TREATMENT	period	period	treatment detail
Additional erosion			None required at this stage
control works (drains re-			
contouring, rock			
protection)			
Re-covering (detail -			No new rehabilitation areas will be undertaken during
further topsoil, subsoil			this AEMR period
sealing etc.)			
Soil treatment (detail -			Nil
fertiliser, lime, gypsum			
etc.)			
Treatment/Management			No treatment will be required
(detail - grazing,			
cropping, slashing etc.)			
Re-seeding/Replanting	2.2 ha		Eastern boundary bunds additional seeding for
(detail - species density,			increased shrub density to assist with dust and
season etc.)			screening management
Adversely Affected by			Spreadsheet provided in table 3.5.1
Weeds (detail - type and			
treatment)			
Feral animal control			No feral animals have been observed on the site
(detail - additional			
fencing, trapping, baiting			
etc.)			

(This period's activities and activities proposed in the next reporting period)



6. ACTIVITIES PROPOSED IN THE NEXT AEMR PERIOD

During the next proposed AEMR period the works proposed to be carried out will be consistent with the current approved MOP. No works are proposed that will require any amendments to the MOP.

Figure 3 (attached in appendix L) from the Approved MOP shows the Project Development sequence for the overall project. With the current MOP, it is intended to transition from Stage 1 through to Stage 2 of the project. We have already commenced the filling component of stage 2 highlighted in blue and moving towards increasing the extraction area to that shown in Stage 2. Currently our extraction area is at the extent as shown in Stage 2 and Stage 3.

Appendix A – Project Approval

Appendix B – EMS

Appendix C – Blasting Monitoring Results

Blasting Results

Appendix D – Noise monitoring results

Appendix E – Air monitoring results

DDG results TsP results Pm10 results

Appendix F – Erosion and Sediment Control Log

Appendix G – Landscape and Biodiversity Monitoring

Appendix H – Surface water monitoring

Appendix I – Ground Water Monitoring

Appendix J – Contour Plans of Brickworks Quarry

Appendix K – Complaints Register

Appendix L – VENM

Attached VENM certificates

Appendix M – Plans

SCCCR Rehab Plan - Mining Activities Plan Monitoring Locations Plan VENM emplacement Plan Flat Rock Yalwal AEMR updated plan MOP Staging Plan