Aeris
TRITTON OPERATIONS

Annual Review - Tritton
Reporting year ending: 31 December 2024






ACKNOWLEDGEMENT

R.W. Corkery & Co. acknowledge and pay our respects to the Traditional Custodians of the lands comprising NSW and Australia on which our projects are located. We appreciate the knowledge, advice and involvement of the Elders and extended Aboriginal community that contribute to our Projects and extend our respect to all Aboriginal and Torres Strait Islander peoples.

TRITTON RESOURCES PTY LTD

ABN 88 100 095 494

2024 Annual Review

for the

Tritton Copper Mine

Period: 1 January 2024 to 31 December 2024

Prepared for:

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RWCorkery&co

Table 1
Title Block

Name of operation	Tritton Mines
Name of operator	Aeris
Development consent / project approval #	DA41/98
Mining lease #	ML 1544
Name of holder of mining lease	Tritton Resources Limited
Water Licence #	80AL702814
Name of holder of water licence	Tritton Resources Limited
Annual Review start date	1 January 2024
Annual Review end date	31 December 2024
I, Shae Martin, certify that this audit report is a true and accurate record of the compliance status of Tritton Mines for the 2024 period, and that I am authorised to make this statement on behalf of Aeris Resources. *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 produced 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	Shae Martin
Title of authorised reporting officer	Health, Safety, Environment Manager
Signature of authorised reporting officer	
Date	31/03/2025

Contents

Page

1. STATEMENT OF COMPLIANCE 1
2. INTRODUCTION 4
2.1 MINE CONTACTS 4
3. APPROVALS 7
4. SUMMARY 12
4.1 EXPLORATION 12
4.2 LAND PREPARATION 12
4.3 CONSTRUCTION 13
4.3.1 Budgerygar Paste Pipeline Upgrade 13
4.4 MINING OPERATIONS 13
4.5 MINERAL PROCESSING 15
4.5.1 Crushing and Stockpiling Ore 15
4.5.2 Grinding 17
4.5.3 Flotation 17
4.5.4 Flotation Product Dewatering 18
4.5.5 Concentrate Handling and Transport 18
4.5.6 Paste Plant 18
4.5.7 Summary of Processing Operations in 2024 19
4.6 WASTE ROCK MANAGEMENT 19
4.7 ORE AND PRODUCT STOCKPILES 20
4.8 HAZARDOUS AND WASTE MATERIAL MANAGEMENT 20
4.9 OTHER INFRASTRUCTURE MANAGEMENT 21
5. ACTIONS REQUIRED AT PREVIOUS ANNUAL REVIEW 23
6. ENVIRONMENTAL PERFORMANCE 24
6.1 AIR QUALITY 24
6.1.1 Environmental Management 24
6.1.2 Environmental Performance 24
6.1.3 Reportable Incidents 27
6.1.4 Further Improvements 27
6.2 CONTAMINATED LAND 27
6.2.1 Environmental Management 28
6.2.2 Environmental Performance 28
6.2.3 Reportable Incidents 29
6.2.4 Further Improvements 29
6.3 THREATENED FLORA 29
6.3.1 Environmental Management 29
6.3.2 Environmental Performance 29
6.3.3 Reportable Incidents 29
6.3.4 Further Improvements 30

Contents

Page

6.4 THREATENED FAUNA 30
6.4.1 Environmental Management 30
6.4.2 Environmental Performance 31
6.4.3 Reportable Incidents 31
6.4.4 Further Improvements 31
6.5 WEEDS 31
6.5.1 Environmental Management 31
6.5.2 Environmental Performance 32
6.5.3 Reportable Incidents 32
6.5.4 Further Improvements 32
6.6 BLASTING 32
6.6.1 Environmental Management 32
6.6.2 Environmental Performance 33
6.6.3 Reportable Incidents 33
6.6.4 Further Improvements 33
6.7 OPERATIONAL NOISE 33
6.7.1 Environmental Management 33
6.7.2 Environmental Performance 33
6.7.3 Reportable Incidents 34
6.7.4 Further Improvements 34
6.8 VISUAL, STRAY LIGHT 34
6.8.1 Environmental Management 34
6.8.2 Environmental Performance 34
6.8.3 Reportable Incidents 35
6.8.4 Further Improvements 35
6.9 ABORIGINAL HERITAGE 35
6.9.1 Environmental Management 35
6.9.2 Environmental Performance 37
6.9.3 Reportable Incidents 38
6.9.4 Further Improvements 38
6.10 NATURAL HERITAGE 38
6.10.1 Environmental Management 38
6.10.2 Environmental Performance 38
6.10.3 Reportable Incidents 38
6.10.4 Further Improvements 38
6.11 BUSHFIRE 39
6.11.1 Environmental Management 39
6.11.2 Environmental Performance 40
6.11.3 Reportable Incidents 40
6.11.4 Further Improvements 40
6.12 HYDROCARBON CONTAMINATION 40
6.12.1 Environmental Management 41
6.12.2 Environmental Performance 41
6.12.3 Reportable Incidents 42
6.12.4 Further Improvements 42

Contents

Page

6.13 METHANE DRAINAGE/VENTILATION 42
6.13.1 Environmental Management 42
6.13.2 Environmental Performance 42
6.13.3 Reportable Incidents 42
6.13.4 Further Improvements 42
6.14 PUBLIC SAFETY 42
6.14.1 Environmental Management 43
6.14.2 Environmental Performance 43
6.14.3 Reportable Incidents 43
6.14.4 Further Improvements 43
7. WATER MANAGEMENT 44
7.1 INTRODUCTION 44
7.2 EROSION AND SEDIMENT CONTROL 46
7.2.1 Environmental Management 46
7.2.2 Environmental Performance 47
7.2.3 Reportable Incidents 47
7.2.4 Further Improvements 47
7.3 SURFACE WATER 47
7.3.1 Environmental Management 49
7.3.2 Environmental Performance 49
7.3.3 Reportable Incidents 52
7.3.4 Further Improvements 52
7.4 GROUNDWATER 53
7.4.1 Environmental Management 53
7.4.2 Environmental Performance 53
7.4.3 Reportable Incidents 55
7.4.4 Further Improvements 56
8. REHABILITATION 57
8.1 BUILDINGS 57
8.2 REHABILITATION OF DISTURBED LAND 57
8.3 OTHER INFRASTRUCTURE 58
8.4 REHABILITATION TRIALS AND RESEARCH 58
8.4.1 TSF Feasibility Assessment 58
8.5 REHABILITATION FORWARD PROGRAM 59
8.6 REHABILITATION RISK ASSESSMENT 59
9. COMMUNITY 60
9.1 ENVIRONMENTAL COMPLAINTS 60
9.2 COMMUNITY LIAISON 60
10. INDEPENDENT AUDIT 62
11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD 67
12. ACTIVITIES PROPOSED IN THE NEXT ANNUAL REVIEW PERIOD 68

Contents

Page

APPENDICES

Appendix 1 Erosion Cross-Section Graphs 70
Appendix 2 2024 Surface Water Quality Results 73
Appendix 3 2024 Groundwater Quality Results 76

FIGURES

Figure 1 Locality Plan and Mineral Authorities 5
Figure 2 Existing Mine Site Layout 6
Figure 3 Tritton Underground Mine Layout and Ore Body 14
Figure 4 Tritton Ore Processing Flow Chart 16
Figure 5 Deposited Dust Gauge Locations 25
Figure 6 Identified Cultural Heritage Artifacts Locations 36
Figure 7 Erosion Monitoring Locations 48
Figure 8 Groundwater Monitoring Locations 54

TABLES

Table 1 Title Block ii
Table 2 Statement of Compliance 1
Table 3 Non-compliances 1
Table 4 Contacts 4
Table 5 Consents, Lease and Licences 8
Table 6 Exploration Expenditure 2024 12
Table 7 Production Summary 13
Table 8 Major Mining Equipment used at Tritton 15
Table 9 Processing-related Statistics 19
Table 10 Ore and Product Balances 20
Table 11 Waste Management Summary 21
Table 12 Air Quality Metals Analysis 26
Table 13 Insoluble Solids 26
Table 14 Noise Monitoring Results 34
Table 15 Bioremediation Facility Testing Results 41
Table 16 Water Take 44
Table 17 Surface Water Monitoring Schedule 50
Table 18 Monthly Groundwater Monitoring Schedule 53
Table 19 Groundwater Average Standing Water Levels (mRL) 56
Table 20 Rehabilitation Summary 57
Table 21 Maintenance Activities on Rehabilitated Land 58
Table 22 Rehabilitation Planning Schedule 59
Table 23 Summary of Non-Compliances and Corrective Actions 63

1. Statement of Compliance

Table 2
Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	
DC# DA41/98	No
ML# ML 1544	No

Compliance Status Key

Risk level	Colour code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence.
Medium	Non-compliant	Non-compliance with: • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur.
Low	Non-compliant	Non-compliance with: • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur.
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions).

Table 3
Non-compliances

Page 1 of 3

Relevant Approval	Cond. No.	Condition Description	Compliance Status	Comment	Where Addressed in Annual Review
DA41/98	2(a)	Requires the Company comply with all other approvals and licences required for the operation of the Mine	Non-compliant	Tritton acknowledge that non-compliances under ML1544 and EPL11254 were identified during the reporting period. Potential non-compliances bulk fuel/ liquids storage were identified in the Independent Environmental Audit (IEA). Tritton will conduct a site wide review of all hydrocarbon and chemical storage to confirm the status of the non-compliance.	Section 11
	3J	Requires the Company to ensure all employees and contractors are aware of all approvals and licences required for the operation of the Mine	Non-compliant	Tritton has prepared updates to the Hydrocarbon and Chemical Management Plan. Tritton will consider the non-compliance when reviewing the PIRMP. Tritton will develop a new training package for chemical and hydrocarbon management and commence training operational personnel.	Section 11
	4	Requires the Company to prepare and have available on the website the Rehabilitation Management Plan (RMP) for the Mine	Non-complaint	Tritton would like it noted that it has the current RMPs available on it's public website, however will send a copy to DPHI and Bogan Shire Council.	Section 11

Table 3 (Cont'd)
Non-compliances

Relevant Approval	Cond. No.	Condition Description	Compliance Status	Comment	Where Addressed in Annual Review
DA41/98 (Cont'd)	5	Requires the Company to employ suitably qualified personnel appointed for environmental management and compliance management.	Non-complaint	Tritton to complete a review environmental resourcing	Section 11
	6	Requires the Company to prepare an EMP to the satisfaction of the Secretary	Non-complaint	Tritton is current progressing the development of the Environmental Management Strategy.	Section 11
	6A	Requires the Company to review the environmental performance of the Mine	Non-complaint	Tritton will ensure that future Annual Reviews are completed and submitted to DPHI before the end of March unless otherwise approved by DPHI.	Section 11
	6B	Requires the Company to review the management plans within 3 months of an IEA.	Non-complaint	Tritton has revised the Management Plan Update Schedule due to some delays, however remains committed to having all management plan updates completed by April 2025.	Section 11
	8	Requires the Company to commission and pay the full cost of an IEA of the development.	Non-compliant	Tritton will ensure that all future audits are undertaken in accordance with the timings specified in the Approval. Tritton to review 2021 IEA to identify outstanding actions and close them out.	Section 11
	13F	Requires the Company to prepare a Water Management Plan to the satisfaction of the Secretary	Non-compliant	Tritton is presently undertaking a major update of the Water Management Plan. Once internal review completed, it will be submitted to DPHI for review and approval.	Section 11
	23	Requires the Company to prepare and submit for approval to the Secretary, a Management and Monitoring Plan for the Tailings Dams prior to the construction of the tailings dam, in consultation with the RR and EPA.	Non-compliant	Tritton is presently undertaking a major update the Waste Management Plan, which will contain management measures and monitoring for Tailings. Once internal review completed, it will be submitted to DPHI for review and approval.	Section 11
	24	Requires the Company to implement the Management and Monitoring Plan in accordance with its provisions.	Non-compliant	Tritton notes the recommendation. The Waste Management Plan will contain Tailings management and monitoring for implementation.	Section 11

Table 3 (Cont'd)
Non-compliances

Relevant Approval	Cond. No.	Condition Description	Compliance Status	Comment	Where Addressed in Annual Review
DA41/98 (Cont'd)	45	Requires the Company to prepare heritage management and protection measures in consultation with HNSW and the relevant Aboriginal groups.	Non-compliant	Tritton is finalising the Heritage Management Plan and once internal review is completed, it will go for external consultation including Heritage NSW and Aboriginal stakeholders.	Section 11
	50	Requires the Company to prepare and submit for approval to the Secretary and EPA a Blasting Protocol prior to the commencement of operations.	Non-compliant	Tritton does not agree with the 2024 IEA recommendation as we do not believe this has been triggered as Tritton is an underground mine only. The 2021 IEA noted this was compliant as untriggered.	Section 11
Standard Mining Lease Conditions	D3-15	Requires to Company to prepare an RMP and associated outcome documents before the end of the initial period.	Non-compliant	Tritton will ensure all future versions of the Rehabilitation Documents are prepared and/or submitted to the RR in accordance with the approved timelines	Section 11
	D3-16	Requires the RMP to be made publicly available on the Company's website.	Non-compliant	Tritton will ensure all future revisions of all remediation documentation required is made available on the project website within the timelines specified	Section 11
	D4-18	Requires the Company to notify to the Minister after becoming aware of a non-compliance.	Non-compliant	Tritton will track compliance against the Mining Lease Conditions and proactively report any non- compliances to the RR within seven days of becoming aware of those non- compliances.	Section 11
	D4-19	Requires the Company to nominate a contact person for the purposes of RR communications.	Non-compliant	Tritton will advise the RR of any future changes in the nominated contact person.	Section 11
ML1544	28	Requires the Company to prepare a Tailings Management Plan as part of the Mine Closure Plan.	Non-compliant	Mine Closure Plan has been replaced by Rehabilitation Management Plans, however these do not cover Tailing Management. Tritton advises that management of Tailings is now covered by the Waste Management Plan (being updated) and the Tailings Dam Operations & Maintenance Manual	Section 11
	31	Requires the Company to employ suitably qualified Environmental Officer.	Non-complaint	Tritton to complete a review environmental resourcing	Section 11

2. Introduction

This Annual Review has been compiled by R.W. Corkery & Co. Pty Limited (RWC) on behalf of Tritton Resources Pty Ltd (Tritton Resources), a wholly owned subsidiary of Aeris Resources Limited (Aeris Resources) for the Tritton Copper Mine (the "Mine"). The Annual Review summarises site activities and monitoring for the 12-month period covering the 2024 calendar year and has been prepared in accordance with the then NSW Department of Planning and Environment "Annual Review Guidelines" October 2015.

The Mine is located approximately 22km southwest of the village of Girilambone and approximately 45km northeast of the town of Nyngan (**Figure 1**). The principal mineral authority for the Mine is Mining Lease (ML) 1544. For the purpose of this document, the area covered by ML1544 is referred to as the "Mine Site" (**see Figures 1** and **2**).

Tritton Resources operates three other mines in the nearby vicinity; ML 1280 (Murrawombie Copper Mine), ML 1383 (North East Mine), and ML 1818 (Avoca Tank Mine) (**Figure 1**).

This Annual Review covers the following aspects of the Tritton operation:

- Mining activities undertaken on Tritton Mining Lease - ML1544; and
- Exploration activities undertaken on:
  - Tritton ML 1544;
  - Exploration License (EL) 6126;
  - EL 4962
  - EL 6346; and
  - EL 6785
  - EL 8084

2.1 Mine Contacts

Table 4 provides a list of the site personnel responsible for the activities described in this Annual Review.

Table 4
Contacts

Position	Name	Site Phone Number
General Manager	Jason Hughes	(02) 6838 1005
Regional Exploration Manager	Chris Raymond	(02) 6838 1130
Health, Safety, Environment Manager	Shae Martin	(02) 6838 1146
Environmental Superintendent[1]	Currently Vacant	
Senior Environmental Advisor	Cordelia Smart	(02) 6838 1100
Note 1: It is noted that the position of Environmental Superintendent has not yet been filled following the departure of the previous Superintendent. It is anticipated that this role will be filled early in the next reporting period.		

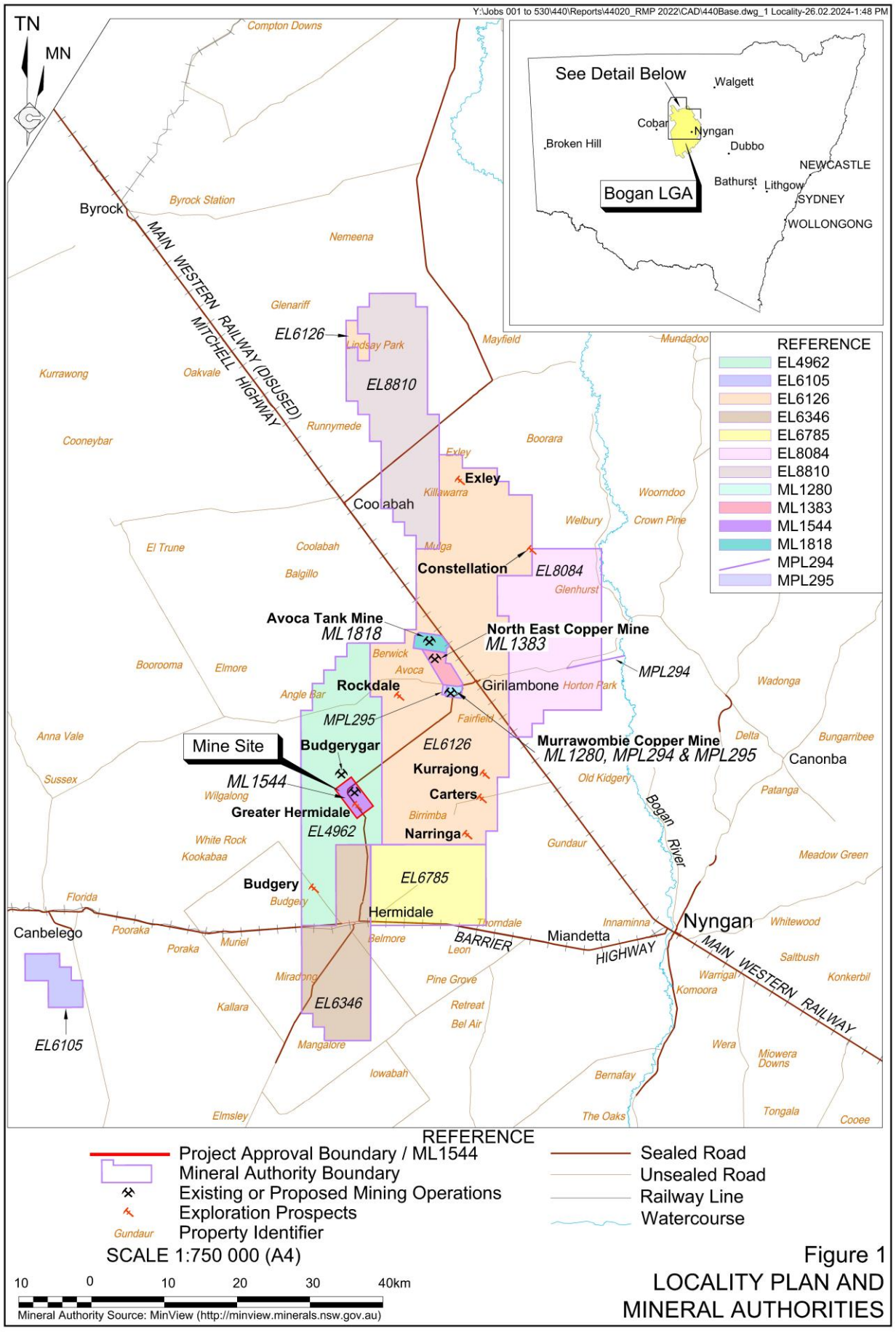


Figure 1
LOCALITY PLAN AND MINERAL AUTHORITIES

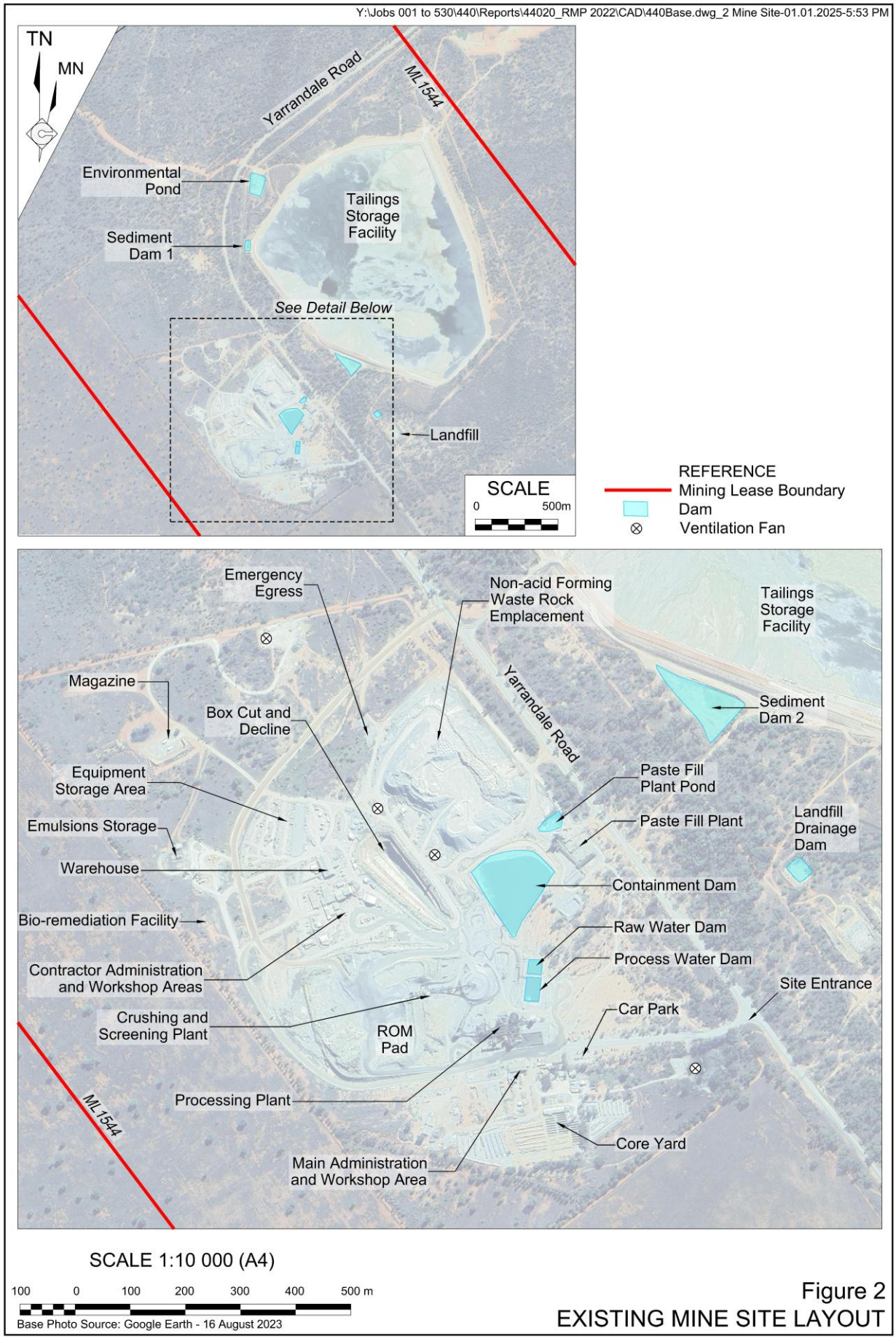


Figure 2
EXISTING MINE SITE LAYOUT

3. Approvals

A range of consents, leases and licences have been applied for and granted to enable mining operations to occur and continue at the Mine Site. These are listed in **Table 5**.

It is noted that DA 41/98 has been modified eight times as follows, with a further modification (MOD9) having been submitted for approval in late 2024. Approved dates are identified in parenthesis.

- MOD 1 (26 August 2004) – various minor amendments.
- MOD 2 (22 September 2005) – to permit modifications to concentrate transport operations between the Mine Site and the Hermidale rail siding.
- MOD 3 (12 June 2007) – to permit construction of the existing Non-acid Forming Waste Rock Emplacement and ancillary infrastructure.
- MOD 4 (19 December 2007) – to permit an increase in the throughput for the processing plant from 0.4Mtpa to 1.4Mtpa, as well as an enlarged Tailings Storage Facility and ancillary infrastructure.
- MOD 5 (7 April 2015) – to permit an increase in the height of the Waste Rock Emplacement, importation of ore material, and exportation of waste rock.
- MOD 6 (30 January 2019) – to permit the excavation and export of tailings from the Tailings Storage Facility (TSF) for use in the Paste Fill Plant at the Applicant's Murrawombie Copper Mine
- MOD 7 (12 October 2021) – to permit the construction of two ventilation rises to support underground exploration activities.
- MOD 8 (8 June 2022) – to permit underground mining of 2.6 million tonnes of copper from the Budgerygar deposit, installation of surface infrastructure, increase the Waste Rock Emplacement height by 10m, additional disposal of drill cuttings within the Tailings Storage Facility (TSF), and an extension of the mine life to 22 December 2028.
- MOD9 (not yet determined) – to integrate the proposed Constellation Copper Mine into the existing Tritton Copper Operations, increase the operational efficiency at the Tritton Copper Operations, and improve the post-mining outcomes through the importation of materials for rehabilitation through the following changes.
  - an increase in the storage capacity of the TSF through the increase to the maximum elevation of the structure to 278m AHD;
  - an extension to the Mine life until 31 December 2036;
  - permit the export of tailings material to all mines within the Tritton Copper Operations and increase the export limit to 500,000tpa;
  - permit the receipt of waste material from all mines within the Tritton Copper Operations;
  - increase the annual processing rate to 1.8Mtpa;

– increase the volume of mined material (from any mine within the Tritton Copper Operations) permitted to be accepted at the Mine to 1.8Mtpa; and,

– increase the total area used for stockpiling of NAF (non-acid forming) waste rock through the extension of the existing stockpile within previously disturbed areas of the Mine Site.

Table 5
Consents, Lease and Licences

Page 1 of 4

Act	Instrument	Instrument Number	Date of Approval	Date of Expiry	Site	Purpose
Protection of the Environment Operations Act 1997	Environmental Protection Licence	11254	19/10/12	On-going	Tritton	Mining (Other than coal)
Environmental Planning and Assessment Act 1979	Development Consent	029/2007	25/05/07	24/05/12	Tritton	Tritton new office block and bath house
Environmental Planning and Assessment Act 1979	Development Consent	30/2004	20/12/04	29/12/09	Tritton	Rail Loading Hardstand
Environmental Planning and Assessment Act 1979	Construction Certificate	52/2004	01/02/05	N/A	Tritton	Rail Loading Hardstand
Environmental Planning and Assessment Act 1979	Development Consent	2010/028	04/11/10	4/11/15	Tritton	Communication Tower
Environmental Planning and Assessment Act 1979	Construction Certificate	2010/016	04/11/10	N/A	Tritton	Communication Tower (DC 2010/028)
Environmental Planning and Assessment Act 1979	Development Consent	2010/006	25/05/10	25/05/15	Tritton	Paste fill Plant
Environmental Planning and Assessment Act 1979	Development Consent	10/2019/021/001	15/01/19	15/01/25	Tritton and Hermidale	Water Pipeline
Water Management Act 2000	Water Access Licence	WAL009374	24/02/05	Ongoing	Tritton and Murrawombie	High Security Water Licence (705ML)
Water Management Act 2000	Water Access Licence	WAL009375	24/02/05	Ongoing	Tritton and Murrawombie	General Security Water Licence (210ML)
Water Management Act 2000	Water Access Licence	WAL009940	01/07/04	Ongoing	Tritton and Murrawombie	Supplementary Water Licence (16ML)
Water Management Act 2000	Water Use and Works Approval	80WA702816	24/02/05	23/02/30	Tritton and Murrawombie	Gunningbar Creek and Bogan River Pumps
Water Management Act 2000	Water Use and Works Approval	80WA704315	20/05/09	30/06/27	Tritton and Murrawombie	Water supply via Nyngan-Cobar pipeline
Water Management Act 2000	Authority for Joint Supply Scheme	80SA010630	24/02/10	03/10/25	Tritton and Murrawombie	Joint Supply Works Pumps on Bogan River

Table 5 (Cont'd)
Consents, Lease and Licences

Act	Instrument	Instrument Number	Date of Approval	Date of Expiry	Site	Purpose
Water Management Act 2000	Water Supply Works	80WA716044	16/01/12	28/05/27	Tritton	Dewatering Tritton U/G Mine
Water Act 1912	Water Bore Licence	80BL239188	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH001D
Water Act 1912	Water Bore Licence	80BL239189	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH001S
Water Act 1912	Water Bore Licence	80BL239190	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH002D
Water Act 1912	Water Bore Licence	80BL239191	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH002S
Water Act 1912	Water Bore Licence	80BL239192	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH003D
Water Act 1912	Water Bore Licence	80BL239193	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH003S
Water Act 1912	Water Bore Licence	80BL245086	12/09/08	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH12
Water Act 1912	Water Bore Licence	80BL239194	04/01/01	Perpetuity	Tritton	Tritton TSF Monitoring Bore. PZH004
Water Act 1912	Water Bore Licence	80BL245969	25/06/10	Perpetuity	Tritton	Tritton TSF Monitoring Bores. PZH013, PZH014, PZH015, TIP001, TIP002.
Water Act 1912	Water Bore Licence	80BL245250	20/03/09	Perpetuity	Tritton	Tritton TSF Pumping Bore. PB001
Water Act 1912	Weir	80SL050393	05/12/06	05/12/26	'Marlow'	Gunningbar Creek Off Take Weir
Mining Act 1992	Mining Lease	1544	22/12/03	21/12/45	Tritton	Tritton Mine
Mining Act 1992	Mining Purpose Lease	294	01/07/97	05/08/34	Tritton and Girilambone	Water pipeline route access
Mining Act 1992	Exploration Licence	4962	19/03/96	19/03/28	Regional	Tritton regional 123 units
Mining Act 1992	Exploration Licence	6346	07/05/07	23/11/27	Regional	Hermidale 78 units
Mining Act 1992	Exploration Licence	6126	15/09/03	14/09/26	Regional	Girilambone
Mining Act 1992	Exploration Licence	6785	31/05/10	22/05/26	Regional	Miandetta 80 units
Mining Act 1992	Exploration License	8084	14/07/23 10/05/13	10/05/28	Regional	Girilambone East

Table 5 (Cont'd)
Consents, Lease and Licences

Act	Instrument	Instrument Number	Date of Approval	Date of Expiry	Site	Purpose
Radiation Control Act 1990	Licence to Sell / Possess / Store or give away regulated material	5061178	26/02/15	26/02/26	Tritton	Possess radiation gauges
Explosives Act 2003 & Regulation 2013	Work Cover License	XMNF200001	05/01/14	05/01/27	Tritton	License to Manufacture
Radio Communications Act 1992	Registration certificate	11899408/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295222/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295223/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295224/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295225/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295226/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295227/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295229/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295230/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295231/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295232/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295675/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295676/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295677/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295678/1	Pending approval	Pending approval	Tritton	Land mobile radio licence

Table 5 (Cont'd)
Consents, Lease and Licences

Act	Instrument	Instrument Number	Date of Approval	Date of Expiry	Site	Purpose
Radio Communications Act 1992	Registration certificate	12295679/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295680/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295681/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12295682/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12310120/1	Pending approval	Pending approval	Tritton	Land mobile radio licence
Radio Communications Act 1992	Registration certificate	12310121/1	Pending approval	Pending approval	Tritton	Land mobile radio licence

4. Summary

4.1 Exploration

No exploration activities were undertaken within ML1544 during the 2024 reporting period.

The location of all mineral authorities maintained by Tritton are displayed on **Figure 1**.

Exploration diamond drilling was completed during 2024 within the Constellation prospect. Results of this drilling will be reported on within the annual report for that mineral authority.

Expenditure on the Tritton leases and licences for the 2024 period is listed in **Table 6**.

Table 6
Exploration Expenditure 2024

Tritton - ML1544	$	74,197
Murrawombie - ML1280	$	138,037
North East - ML1383	$	25,324
Avoca Tank – ML1818	$	57,965
EL4962	$	100,571
EL6126	$	541,064
EL6346	$	27,895
EL6785	$	46,935
EL8084	$	5,974,235
EL8987	$	1,406,591
EL8810	$	50,574
EL9285	$	108,246
Total	**$**	**8,551,634**

The rehabilitation status of the 2024 and prior years' exploration programs is as follows.

- All previous exploration activities have been fully rehabilitated to the satisfaction of Tritton Resources.

A total of 1.72Ml of fluid fraction and 83.6m^3 solid fraction of drilling muds were disposed of within the Tritton TSF during the 2024 reporting period.

4.2 Land Preparation

All site surface disturbance activities require the completion of a Surface Disturbance Permit.

There were three surface disturbances undertaken during the 2024 reporting period including the following with the relevant Surface Disturbance Permit numbers identified for each activity.

- Permit No. ENV-SDP_135: Upgrading the front entrance car park at the Tritton main office. Installation of security fencing, walkways, lighting, travel ways and signage.

- Permit No. ENV-SDP_136: Removal of tree within proximity of an overhead powerline, non-compliant with Tritton bushfire management.
- Permit No. ENV-SDP_138: Running Power to the mill sewage system

4.3 Construction

During the 2024 reporting period the following construction work was completed.

4.3.1 Budgerygar Paste Pipeline Upgrade

The construction of the Budgerygar paste pipeline upgrade was completed during the 2024 reporting period. The works consisted of installation of a pump and surface pipeline (paste delivery line) delivering paste to a borehole into the Budgerygar underground mining area.

4.4 Mining Operations

In 2024 the underground mine at Tritton (inclusive of its Budgerygar Deposit) produced 351,102t of ore with an average grade of 1.85% copper. The primary mining method employed at Tritton during 2024 was sub level open stoping in conjunction with a cemented paste backfill.

A summary of mining-related production statistics is provided in **Table 7**.

Table 7
Production Summary

Material	Approved Limit (Specify Source)	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)
Waste Rock Mined	-	228,532t	70,352t	15,916t
Waste Rock Exported	30ktpa	15,059t	40,304t	15,000t
Waste Rock Balance	-	213,473t	30,048t	916t
Ore Mined	2Mt	851,478t	351,102t	350,000t
Ore Imported	1Mtpa	435,459t	346,774t	340,000t
Total Ore	-	1,286,937t	697,876t	690,000t

The current underground mine layout is shown in **Figure 3**.

During this reporting period there was 3,249m of development undertaken in the Tritton underground mine (including Budgerygar). This development was in the form of 1,634m of capital development and 1,614m of operating development (ore, waste, paste and stripping inclusive). In addition, 262m of vertical development was completed. Of the 207,554t of waste rock produced from this development, 34,235t was used underground as backfill and the remainder (173,319t) trucked to the surface waste rock emplacement. At the end of December 2024, the deepest part of the mine was RL 3945m, which places it approximately 1,325m below the surface.

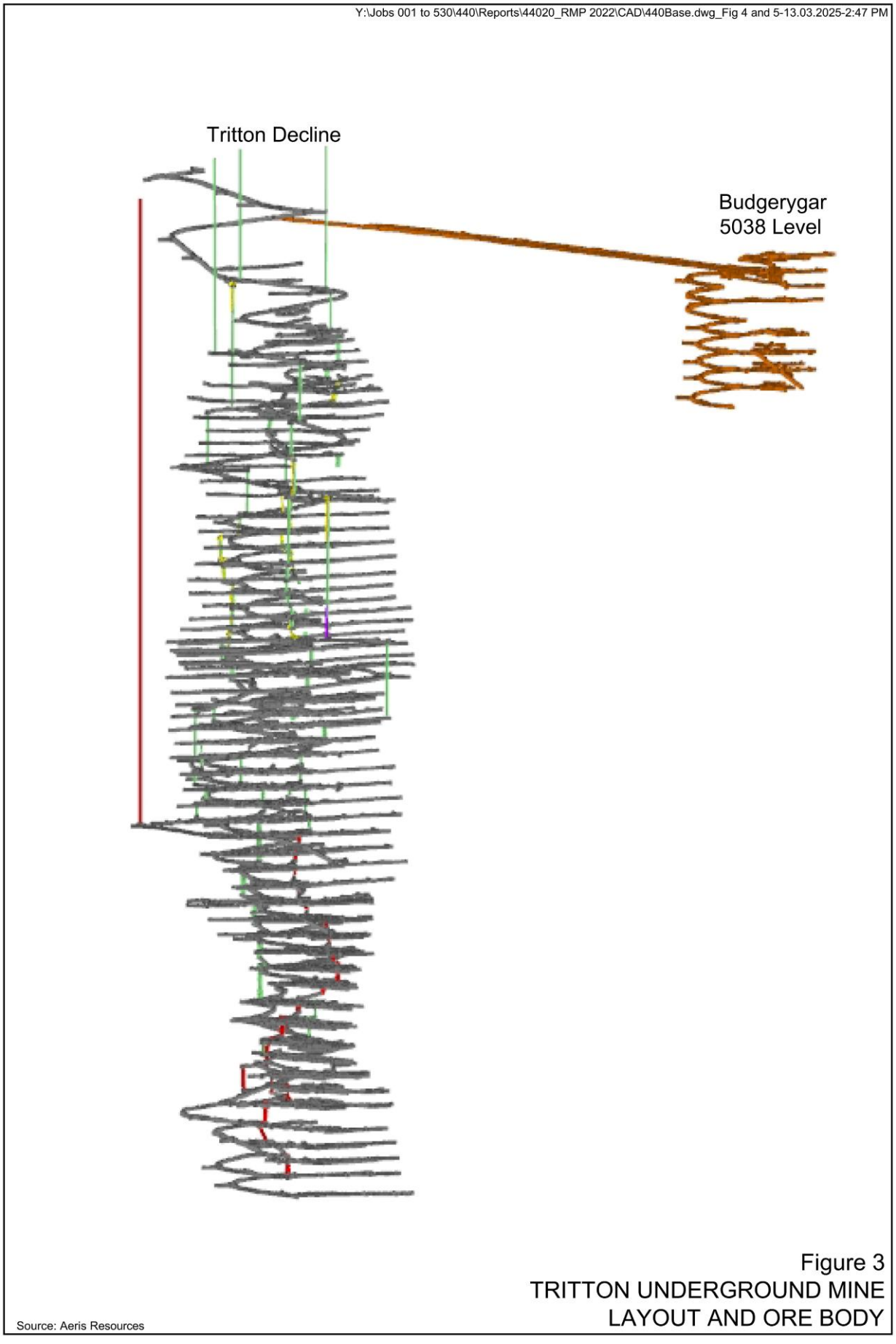


Figure 3
TRITTON UNDERGROUND MINE
LAYOUT AND ORE BODY

Source: Aeris Resources

The major mining equipment items in use at Tritton are shown below in **Table 8**.

Table 8
Major Mining Equipment used at Tritton

Equipment	Make	Model	Quantity
Dump Truck	Caterpillar	AD55B	1
Dump Truck	Sandvik	Th663	9
Loaders	Sandvik	LH621	6
Jumbo	Sandvick	DD421 DD422	2
Cable Bolter	Sandvick	DS421	1
Integrated Tool Carrier	Volvo CAT	L120, L50E 950M, IT28G	4
Grader	Caterpillar	12H	1
Charge Up	Maclean Normet	MC605DA	1
Store Truck	Hino Isuzu	GT1322 FVZ1400, FTS800	1 1 1
Agitator	Atlas Utimec	TM5010 1600	1 1

4.5 Mineral Processing

The mineral processing circuit is described in the following sections and a flow diagram of the process is depicted in **Figure 4**.

4.5.1 Crushing and Stockpiling Ore

Ore from the underground mines is delivered to the Run-of-Mine (ROM) pad. Stockpiled ore is fed by front end loader into the ROM bin at the head of the crushing circuit.

The crushing circuit consist of a fixed grizzly at the top of the ROM bin, with an aperture of 800mm, which limits the size of ore fed into the circuit. From the ROM bin ore is discharged onto a vibrating feeder which in turn feeds a single toggle jaw crusher. The crushed ore, with a diameter of approximately 100mm, is conveyed to the crushed ore stockpile. A tramp iron magnet is strategically located after the crusher for the recovery of tramp steel.

From the crushed ore stockpile, ore is reclaimed via three vibrating feeders underneath the stockpile which discharge onto a reclaim conveyor. The reclaim conveyor transports the crushed ore to the Semi-Autogenous Grinding (SAG) mill.

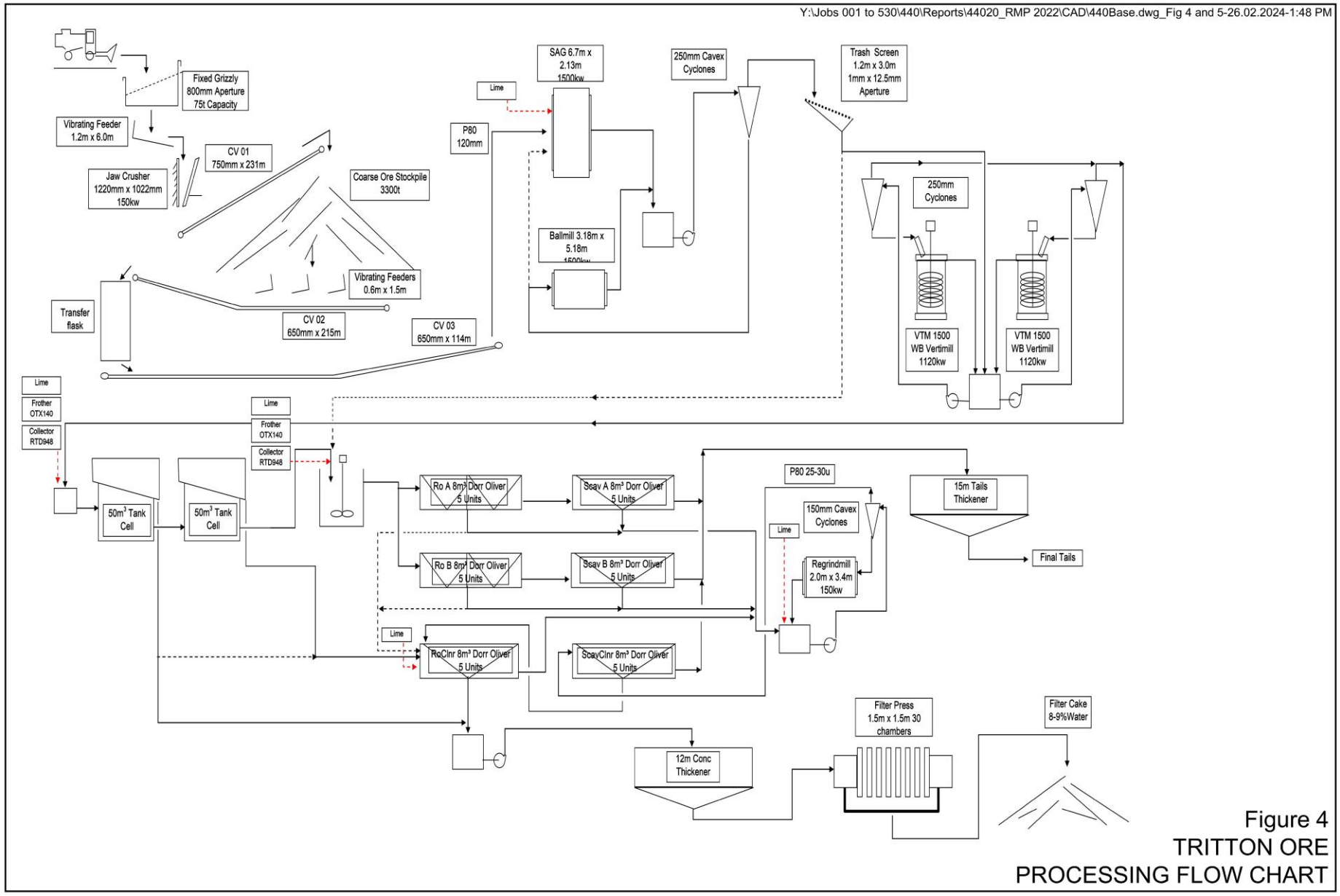


Figure 4
TRITTON ORE
PROCESSING FLOW CHART

4.5.2 Grinding

Primary, secondary and tertiary grinding is utilised to liberate valuable chalcopyrite (copper pyrite) from the ore to facilitate efficient concentrate flotation within the floatation circuit. The reclaim conveyor discharges into the primary grinding circuit which consist of an open circuit SAG mill. Lime slurry is also added to the SAG mill for pyrite depression to a target pH of 10.5. The SAG mill discharges to a trommel screen to remove oversize materials. Material passing through the trommel reports to the secondary grinding circuit.

The secondary circuit consists of an overflow ball mill operating in closed circuit with a cluster of hydrocyclones fed by a horizontal centrifugal pump. As with the SAG mill, the ball mill discharges to a trommel screen to remove oversize particles and worn media from within the mill. This oversize material discharges to a collecting drum ready for disposal.

The secondary circuit hydrocyclones discharge onto a trash screen which feeds the tertiary grinding circuit. The tertiary circuit is comprised of 2 parallel Metso Vertimills. Each Vertimill is in closed circuit with a cluster of hydrocyclones. Following the tertiary hydrocyclones, ground material reports to a second trash screen which feeds the appropriately sized material to the floatation circuit.

The grinding circuit is designed to produce product with an 80% particle size distribution (P80) of 75 microns at 30-35% w/w solids density.

4.5.3 Flotation

The tertiary cyclone overflow feeds into two tank cells in series for primary rougher flotation. Flotation collector solution, lime and frother solution are also added to the first primary rougher tank to clump the concentrate. Concentrate from the first primary rougher tank is then directed to the thickener and the dewatering circuit. The primary roughing circuit can recover up to 70% of the total copper in the feed.

The primary rougher tailings are pumped to a rougher feed conditioning tank before being fed to two parallel banks of rougher/scavengers. Each bank consists of Dorr Oliver cells (5 roughers and 5 scavengers). The concentrate recovered from the tailings materials at the roughing stages is sent directly to the rougher cleaner while the concentrate from the scavenger stages is sent to a regrind circuit for further size reduction.

The regrind circuit consists of a ball mill in a closed circuit with a cluster of Cavex hydrocyclones. The feed to the cyclones is generated from the scavenger concentrate and rougher cleaner tailings. The underflow reports to the regrind mill and the overflow (P80 of 38 microns) to a scavenger cleaner. The scavenger cleaner concentrate reports to the rougher cleaner which produces a final concentrate. The scavenger tailings are recycled back to the rougher feeder conditioning tank.

Floatation collection solution is added to the head of each rougher and scavenger bank as well as to the scavenger cleaner. The pH in the roughing circuit remains around 9.5 with lime addition to the scavenger cleaner used to increase the pH to 10.8 to assist in liberated pyrite depression.

The combined primary rougher concentrate and rougher cleaner concentrate report to the concentrate thickener, while the tailings from the scavenger flotation tanks reports to the final tailing thickener.

The Tritton flotation circuit produces a copper concentrate with minor concentrations of gold and silver and recovers 94% copper, 50% gold and 80% silver from a typical ROM feed (1.4% Cu, 0.21ppm Au and 5.0ppm Ag).

4.5.4 Flotation Product Dewatering

Floatation product dewatering is required to:

- remove water from the final copper concentrate product; and
- remove excess water from the tailings material for use back through the process plant.

Copper Concentrate Dewatering

The processing plant consists of two main dewatering mechanisms for copper concentrate, these are the thickeners and a plate pressure filter. The final copper concentrate is pumped from the flotation circuit to a thickener. Flocculent is added to the thickener to enhance the solids settling rate. The thickener overflow water is recycled through the grinding circuit or directed to the process water dam. The underflow, containing the copper concentrate, is pumped via a surge tank to a horizontal plate pressure filter which squeezes the water out producing a cake with moisture of 8-10% ready for transportation.

Tailings Thickening

The flotation tailings are also pumped from the flotation circuit to a thickener where flocculent is also added. The thickener overflow water gravitates to the process water dam and the underflow is pumped to the tailings dam. Water is reclaimed from the tailings dam decant pond and pumped back into the process water dam for recycling back through the process plant. A seepage reclaim pump recovers water from the tailings dam underdrainage system via a seepage trench which is returned back to the tailings dam.

4.5.5 Concentrate Handling and Transport

The copper concentrate is loaded by front-end loader into purpose-built containers with sealable lids. Two such containers are loaded onto a single road train for transport to Hermidale, where they are temporarily stored and then loaded onto trains for transport to Newcastle. The concentrate is then stored and loaded onto ships at Newcastle's Carrington Con Ports Pty Ltd ship loader facility, for transportation for further processing.

4.5.6 Paste Plant

Paste fill provides a product comprised of tailings and cement to Tritton's underground mining operation to fill voids left after mining. Filling of these voids with paste provides the required geotechnical stability to allow adjacent ore blocks to be extracted. Paste is made by filtering thickened tailings through a horizontal belt filter and then mixing in cement and tailings slurry. Once thoroughly mixed the paste fill is delivered to the required section of the underground mine via a bore line reticulation system.

4.5.7 Summary of Processing Operations in 2024

Table 9 presents a summary of processing-related statistics for the 2024 reporting period.

Table 9
Processing-related Statistics

Material	Approved Limit	Previous Reporting Period	Current Reporting Period	Next Reporting Period (Forecast)
Ore Milled	1.4Mtpa	1,354,854t	1,081,156t	1,400,000t
Copper Concentrate Produced (Saleable Product)	-	88,091t	89,381t	100,000t
Total Tailings Produced	-	1,257,578t	991,774t	1,300,000t
Portion of Tailings to Tailings Storage Facility	-	969,765t	860,778t	1,164,000t
Portion of Tailings to Tritton Paste Plant	-	287,813t	130,997t	134,000t
Tritton Paste Plant – Bulk Cement Used		7,999t	5,456t	6,000t
Tritton Paste Plant – Total Paste Produced	-	287,813t	136,421t	140,000t

4.6 Waste Rock Management

Waste rock from the underground mine is placed in a Waste Rock Emplacement (WRE) on the surface, which is located to the east of the underground entry. Where practicable waste rock is also returned underground as backfill or used as road base. Approximately 70,352t of waste rock was produced at Tritton (see **Table 7**) with 12,382t returned underground as backfill and the remainder (30,048t) trucked to the WRE. Approximately 40,304t of waste rock was exported from the Mine Site for general use in roads, hardstands, and other permitted uses.

Potentially acid forming (PAF) waste rock can occur at Tritton and therefore appropriate management is required. Based on an industry standard produced by Environment Australia and site expertise, rock samples are retrieved while in-situ in order to continuously build a database of compositional rock samples to enable effective management of the waste rock stream. The sampling and characterisation process is based on four overarching steps - Plan, Sample, Model and Check. Each of these steps is explained below.

- Plan for sampling – ensure that drill holes are drilled at least 20m beyond the footwall contact, to provide information on the typically mined waste rock expected after extraction.
- Routinely sample drill holes for PAF rock material using the Net Acid Producing Potential (NAPP) and Net Acid Generation (NAG) tests.
- Model potential waste rock zones by extending the geology ore block model and using Sulphate content (S%) within the waste rock as a comparable replacement to PAF testing. A “sulphur domain” is then created and incorporated into all operational level plans.
- Check to ensure that the correlation between S% and PAF is correct by regularly reviewing the results of PAF testing and checking the statistics for the break point where S% equals PAF. Also spot checks are regularly undertaken by wall sampling the underground waste rock zones and submitting for PAF testing.

During the last reporting period the PAF material was sent to the underground waste tip. Oversize material reporting to the Run of Mine Pad classified as PAF are taken back underground to use as backfill.

4.7 Ore and Product Stockpiles

ROM and product stockpiling is an important component of the beginning of the processing operation. Section 4.5.1 describes the role that the ROM pad has in processing. The Tritton ROM and product stockpiles have remained consistent with expectations throughout the reporting period. No significant changes to the stockpile footprint or capacity are planned at this stage. Stockpile levels at the end of each month are detailed in **Table 10**.

Table 10
Ore and Product Balances

Date	Surveyed Closing Balances (t)		Copper Concentrate Produced (t)
	Tritton ROM	Crushed Ore	
January	101	90,097	7,476
February	108	82,986	6,371
March	306	87,477	7,056
April	422	96,771	8,370
May	1,723	104,450	10,233
June	2,103	106,215	9,224
July	378	99,606	8,142
August	0	76,646	6,071
September	209	97,641	9,105
October	790	87,067	7,881
November	5,280	59,779	3,138
December	1,716	92,420	6,314

4.8 Hazardous and Waste Material Management

Hazardous Materials

In accordance with the License to Manufacture (under license number: XMNF200001) issued by Workcover, Tritton Resources is permitted to store hazardous materials (explosives and related products).

Control measures required for the storage and use of hazardous materials include the requirement to provide Safety Data Sheets (SDSs) for all hazardous materials on site. The SDSs are accessed using a database or sourced direct from the supplier. SDSs are displayed on/near the product or in a manifest within the area.

Explosives are stored in a registered magazine bunded in accordance with AS2187. The magazine is fenced and access is restricted.

Diesel fuel is stored in self-bunded tanks with the delivery and refuelling areas bunded to contain spills. Oils and lubricants are stored in designated and bunded areas. Processing chemicals are stored in designated areas with bunds as required.

General and Recyclable Waste

As an active mine site, Tritton Resources generates quantities of recyclable and general waste. Tritton Resources employs a contractor to manage the service of general waste and recycling skips. The process involves collecting general waste located in the skip bins with the garbage truck where it undergoes compaction and then is disposed of at the Cobar landfill. Any oversized items that don't fit into the skip bins are disposed of in the Tritton landfill. All recyclables are collected and taken to Dubbo for processing. The collection is carried out on a fortnightly basis or as otherwise required.

During the 2024 reporting period the collective operations of the Tritton, Murrawombie, and North East mines recycled a total of approximately 10.14t of waste and a total of approximately 73.95t general waste was taken to an offsite landfill facility for disposal.

Table 11 presents the approximate volume of each waste stream generated during the reporting period, together with the proportion of waste recycled.

Table 11
Waste Management Summary

Waste Class	Waste Stream	Total	
		(kg)	(t)
Non-Hazardous (Recycled)	Mixed Recycling	10,135	10.14
	% of Total Waste	13.71	
Non-Hazardous (Disposal)	Mixed Solid Waste	63,810	63.81
	% of Total Waste	86.29	

Drill Cutting Disposal

Disposal of exploration drill cuttings within the TSF is approved to occur, with no more than 50 truckloads of drill cuttings to be received at site per year. During the reporting period approximately 83.6m^3 drill cuttings were disposed of within the TSF.

4.9 Other Infrastructure Management

A range of other infrastructure is utilised on site as part of the Tritton operation. This infrastructure is described below.

Power Supply

Electrical power enters Tritton via a 66kV line and using a transformer is stepped down to 11kV to feed the site's electrical facilities.

Ventilation Fans

Tritton and Budgerygar underground are ventilated using twin centrifugal 1.3MW fans in association with other auxiliary fans. The location of all ventilation fans are shown on **Figure 2**.

Explosives Magazine and Emulsion Plant

The explosives magazine and emulsion plant are appropriately designed and are located at Tritton to not be a hazard to personnel or infrastructure in the event of an explosion.

Bioremediation Facility

The Bioremediation Facility is located to the west of the site. Hydrocarbon contaminated soil is placed within this facility and treated with micro-organisms which break down the hydrocarbons. The area is sprayed with water and the soil is turned to assist with the breakdown of hydrocarbons. The cells have a combined capacity of $20m^3$. The soil within the facility is tested on a quarterly basis and is compared NEPC (NEPM) 1999 guidelines. Once the soil has been successfully treated the soil will then be removed and used in rehabilitation or stockpiled for future use.

5. Actions Required at Previous Annual Review

Following submission of the 2023 Annual Review for the Tritton Copper Mine on 26 April 2024, DPHI provided a request for revision of the report on 4 July 2024 to address the following matters.

1. the discrepancy between the number of non-compliances identified in Section 1 and Section 11 is corrected.
2. provide more details about the water take in Sections 1 and 11. See also Section 7.1 and Table 17 “Water Take”.
3. provide more detail regarding what non-compliances were not reported re: Condition 7a in sections 1 and 11.

The above matters were addressed in a revised report and was subsequently resubmitted to the Department for approval on 1 August 2024. No further actions were required.

All relevant management plans were reviewed following approval of MOD8. The following plans are currently being updated or have been submitted for consultation or approval.

- *Flora and Fauna Management Plan*
- *Noise and Vibration Management Plan*
- *Dust Management Plan*
- *Cultural Heritage Management Plan*
- *Disposal Management Plan*
- *Waste Rock Characterisation and Management Plan*
- *Water Management Plan*
- *Pollution Incident Response Management Plan*

6. Environmental Performance

6.1 Air Quality

Tritton is situated in a semi-arid environment where yearly evaporation rates generally exceed annual rainfall by an approximate factor of five. High evaporation rates cause bare, disturbed ground to be susceptible to wind erosion and the associated formation of dust. Activities that contribute to soil dispersal/dust include haulage of ore, crushing of ore and vehicle use on unsealed roads and tracks. As the Tritton Mine is an underground mining operation, dust generated from blasting and loading of ore is not expected at the surface. Ventilation fans are a source of particulates.

6.1.1 Environmental Management

Vehicle movement on unsealed roads is considered the major contributor to dust dispersion at Tritton. To combat this source, water trucks equipped with spray systems are utilised on roads to suppress dust.

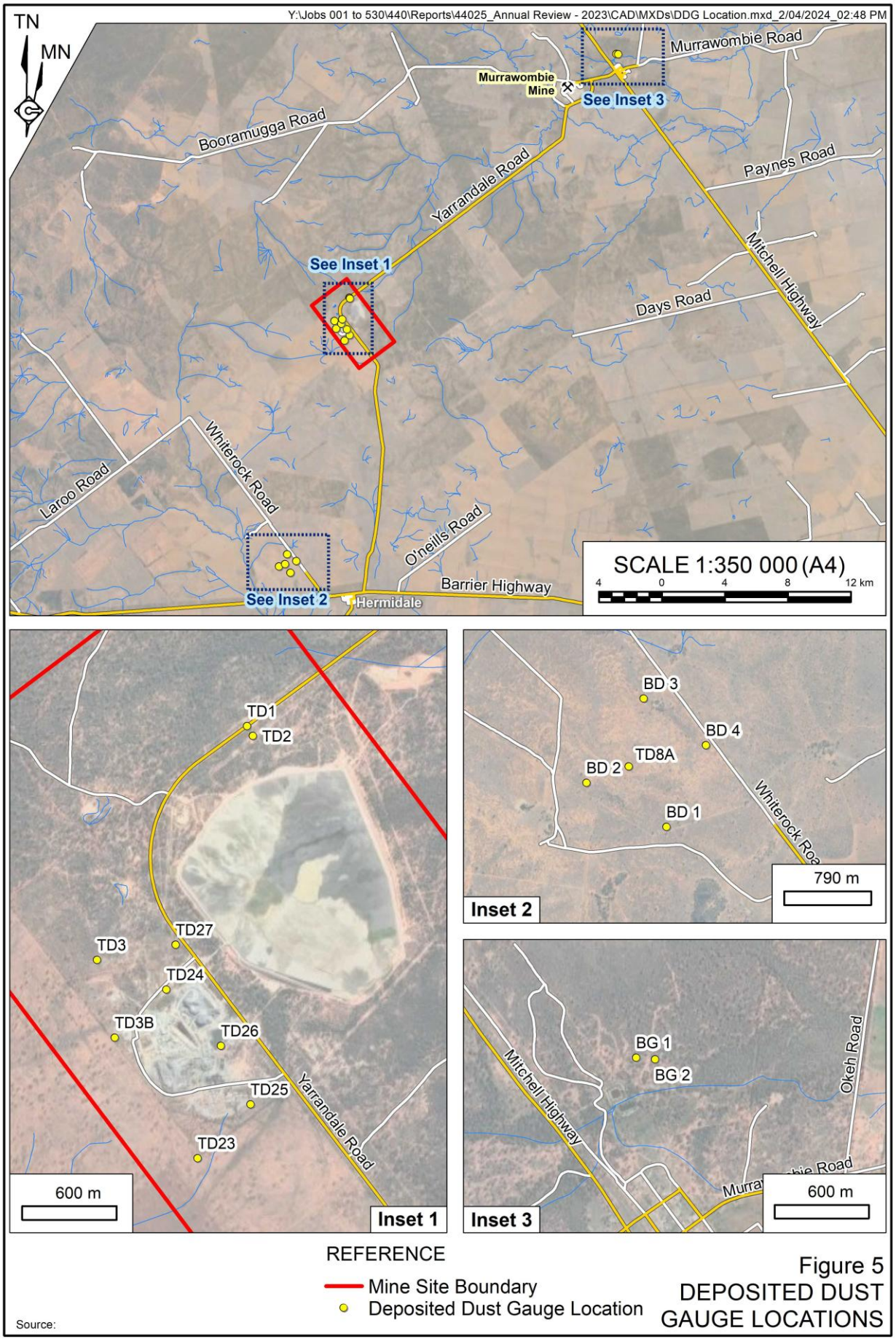
Development activities, such as the establishment of exploration drilling sites, can also increase exposed soil and dust dispersion through the clearing of vegetation. If clearing of vegetation is required, the area to be cleared is demarcated and only the minimum amount of clearing required is permitted to occur. To further limit the impact of development clearing on dust emission, where possible prompt rehabilitation of disturbed areas is undertaken.

In order to track the effectiveness of these strategies, dust fallout gauges are located around the Tritton Mining Lease area to monitor the effects of dust dispersion. Dust monitoring activities are carried out in accordance with Australian Standard 3580.10.1-1991. Dust monitoring is routinely sampled on a monthly basis with all dust gauges replaced every 30 days (+/- 2 days). Insoluble solids are measured in a laboratory and compared to the NSW government guideline, *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (DEC 2005). In addition, samples are tested for heavy metal content.

6.1.2 Environmental Performance

Depositional dust gauges are located around the Tritton Mining Lease area at suitable locations with respect to the locations of sensitive receptors and prevailing wind direction (**Figure 5**). Background air quality sampling is also undertaken to separate dust generated from the operation from that of the background.

A review of the dust gauge metal results continues to identify the presence of heavy metal concentrations above the background data retrieved at the Budgery and the Girilambone gauges (**Table 12**). Tritton Resources monitors heavy metal concentration to understand the site and the environment, but there are no compliance triggers set out in either DA 41/98 or the Dust Management Plan.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TD8A
BD 2
BD 1
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BG 1
BG 2
Mitchell Highway
Okeh Road
600 m
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REFERENCE
Mine Site Boundary
Deposited Dust Gauge Location
Source:
Figure 5
DEPOSITED DUST GAUGE LOCATIONS

Table 12
Air Quality Metals Analysis

Site	Dust Gauge Identification	Average Analyte Concentrations (µg/m²)			
		Copper	Iron	Lead	Zinc
Background					
Budgery	B01	826.0	32713.3	91.3	847.5
Budgery	B02	481.7	30572.8	124.6	318.1
Budgery	B03	339.0	19400.8	191.9	934.0
Budgery	B04	713.1	7581.8	65.0	173.5
Budgery	TD8A	4615.3	56063.3	458.4	774.8
Girilambone	BG1	327.1	5600.2	64.1	108.5
Girilambone	BG2	829.8	6237.5	53.1	370.9
Tritton					
Yarrandale Rd	TD1	3096.3	11786.4	54.4	699.0
Rail Load Out	TD11	1738.4	43175.0	499.3	1387.5
Yarrandale Rd	TD2	2736.9	13994.6	31.3	645.5
Tritton	TD23	7158.3	18372.5	126.7	1296.3
Tritton	TD24	4850.0	31916.7	106.2	1271.4
Tritton	TD25	6875.5	20768.2	108.7	1345.2
Tritton	TD26	94083.3	225333.3	350.0	11935.3
Tritton	TD27	7418.3	30383.3	101.2	1522.3
Tritton	TD3	2603.0	13298.3	20.6	643.5
Tritton	TD3B	3348.3	30480.8	74.0	1119.1

Generally, dust monitoring locations showed elevated metal concentrations. Dust gauges with high elevations of metal concentrations are located in the middle of operations, therefore are expected to have abnormally high results. For example, **Figure 5** shows locations of gauge TD26 is in the middle of the site, amongst operations.

Table 13 presents the data from the analysis of insoluble solids in the air at a range of dust gauges.

Table 13
Insoluble Solids

Page 1 of 2

Site	Compliance Criteria	Dust Gauge Identification	Insoluble Solids (g/m² month)			Seasonal Averages Insoluble Solids (g/m² month)			
			Average	Min	Max	Autumn	Winter	Spring	Summer
Background									
Budgery	N/A	B01	2.5	0.5	14.4	2.1	1.0	1.0	5.7
Budgery	N/A	B02	6.2	0.4	38.4	1.5	13.3	7.7	2.2
Budgery	N/A	B03	3.2	1.4	9.1	2.3	4.9	2.5	3.1
Budgery	N/A	B04	0.9	0.1	2.3	1.0	0.4	0.8	1.3
Budgery	N/A	TD8A	2.9	0.3	12.7	6.4	2.0	1.5	1.7
Girilambone	N/A	BG1	0.6	0.1	1.4	0.5	0.2	0.7	1.0
Girilambone	N/A	BG2	0.7	0.1	1.6	0.7	0.2	0.8	1.1

Table 13 (Cont'd)
Insoluble Solids

Site	Compliance Criteria	Dust Gauge Identification	Insoluble Solids (g/m² month)			Seasonal Averages Insoluble Solids (g/m² month)			
			Average	Min	Max	Autumn	Winter	Spring	Summer
Tritton									
Yarrandale Rd	>4g/m²month	TD1	0.8	0.3	1.8	0.7	0.6	1.0	1.2
Rail Load Out	N/A	TD11	3.3	1.3	5.3	3.8	2.3	3.2	3.9
Yarrandale Rd	>4g/m²month	TD2	0.8	0.2	1.9	0.9	0.3	0.8	1.1
Tritton	>4g/m²month	TD23	1.0	0.3	2.5	1.0	0.4	0.9	1.8
Tritton	N/A	TD24	1.6	0.8	2.6	1.5	1.6	1.4	2.0
Tritton	>4g/m²month	TD25	1.0	0.3	1.9	0.9	0.4	1.2	1.3
Tritton	N/A	TD26	5.2	2.0	25.8	9.9	3.1	4.6	3.4
Tritton	N/A	TD27	1.5	0.7	2.4	1.4	1.0	1.7	1.8
Tritton	>4g/m²month	TD3	0.7	0.3	1.3	0.7	0.5	0.7	0.9
Tritton	N/A	TD3B	1.9	0.2	8.6	1.2	0.6	3.7	2.1

A Dust Monitoring Plan was developed in line with the requirements from the DA 41/98, which sets out dust trigger levels. The trigger value for insoluble solids is > 4g/m^2/month at the gauges TD1, TD2, TD3, TD23, and TD25. Each of the required monitoring location dust gauges are compliant.

No complaints from neighbouring properties were received throughout the reporting period in regard to dust being generated from the Tritton operation.

6.1.3 Reportable Incidents

No reportable incidents occurred during this reporting period.

6.1.4 Further Improvements

Air quality management at the Mine Site during 2025 will continue to be undertaken as per the existing management procedures.

Tritton Resources will continue to adopt an adaptive management approach to air quality management, with ongoing inspections and monitoring of depositional dust results to ensure that the monitoring program is efficient and meets the needs of legislation and operational requirements.

6.2 Contaminated Land

Mining activities at Tritton have the potential to impact on the intrinsic values of the surrounding landscape. These impacts may be caused by chemical, hydrocarbon or material spills, the release of contaminated water or structural failure of infrastructure.

Tritton endeavours to manage existing contaminated areas and prevent and/or minimise further contamination by ensure infrastructure and piping arrangements are suitable for their given purpose and that chemical, hydrocarbon and any other potential contamination materials are handled, stored and disposed of appropriately.

Sites of existing land contamination recorded on the Tritton Contaminated Sites Register include the ROM and coarse ore stockpiles, waste rock emplacements, the tailings storage facility, the ore processing areas and landfill sites. These areas are identified on **Figure 2**.

6.2.1 Environmental Management

Contaminated land at Tritton is generally associated with liquid spillage. All spills require clean up irrespective of volume and size. All spills in excess of 20L requires reporting via the Tritton incident reporting system and entry into the onsite database.

All hydrocarbon spills are remediated at the Tritton bioremediation facility whilst process slurry spills are either returned to the plant for reprocessing or disposed at the tailings storage facility. Impacted areas are generally cleaned up immediately however larger, long-term impacted sites are listed on the Tritton Contaminated Sites Register and are managed and rehabilitated accordingly at mine closure or sooner where possible.

Management and rehabilitation of the registered contaminated sites will primarily be undertaken at mine closure as these areas are still active components of the operation, such as the stockpiles, processing areas, waste rock emplacement and the tailings storage facility. Tritton is also the custodian of an active landfill located to the east of Yarrandale Road near the tailings storage facility and two closed and rehabilitated landfills. The closed landfills are located within the current tailings storage facility footprint and the other is near the existing operational landfill.

The active landfill is licensed under EPL11254 and allows for the disposal of *Inert waste – Class 1 and 2;* and *Solid Waste – Class 1*. Waste is managed by Tritton. Designated waste bins are used to segregate waste streams and increase recycling and reduce landfill waste (General waste). The landfill is fenced and employees are educated on landfill disposal requirements. Two groundwater piezometers are in place near the active landfill to assess any potential landfill leachate to groundwater.

6.2.2 Environmental Performance

The Tritton onsite incident management system recorded two spills during the 2024 reporting period.

- Emulsion spill – emulsion tank not detached prior to driving away causing the pump to be pulled from the stand spilling emulsion (30L).
- Minor fuel spill – diesel fuel leak (15L) from a trailer identified by Bogan shire Council during weed spraying.

All spills were reported and recorded within the incident management system and appropriate clean-up procedures were implemented.

6.2.3 Reportable Incidents

No reportable incidents occurred during the reporting period.

6.2.4 Further Improvements

Contaminated land management at the Mine Site during 2025 will continue to be undertaken as per the existing management procedures. Tritton Resources will continue to adopt an adaptive management approach to contaminated land management, with ongoing inspections and monitoring of contaminated land to ensure that the monitoring program is efficient and meets the needs of legislation and operational requirements. Progressive rehabilitation of contaminated sites will also be undertaken where possible. The rehabilitation of these sites at mine closure is discussed further in Section 5.

6.3 Threatened Flora

The presence of mining and associated activities can impact flora (including "threatened" species). No species of flora listed in either Schedule 1 or 2 of the Threatened Species Conservation Act 1995 (NSW) or in Schedule 13 of the National Parks and Wildlife Act 1974 (NSW) have been identified within the Tritton mining lease area. However, two species, the Cobar Green Orchid and the Pine Donkey Orchid were identified as potentially/likely to occur within the Tritton site.

6.3.1 Environmental Management

In order to minimise/eliminate harm to flora species, all personnel complete a land surface disturbance permit for any proposed land disturbance. As part of the permit a pre-clearance survey is undertaken to establish the likelihood of listed species being present within the proposed clearance area prior to the removal, clearance or destruction of any vegetation (including work associated with exploration). The pre-clearance survey is carried out by the site Environmental Advisor. Periodically, flora and fauna surveys are conducted by external consultants prior to major disturbance and/ or for Tritton to gather more comprehensive data.

6.3.2 Environmental Performance

In 2011 a flora and fauna survey was undertaken at the tailings storage facility in preparation for the expansion of the facility during this reporting period. No threatened flora species were observed by either EnviroKey (the external consultant) who undertook the flora and fauna survey of the area or when Tritton staff conducted pre-clearance surveys. No small or large scale pre-clearance surveys were undertaken during the reporting period.

6.3.3 Reportable Incidents

No incidents were recorded during the reporting period.

6.3.4 Further Improvements

Pre-clearance surveys will continue to be undertaken prior to any surface disturbance. No large scale clearing is proposed during 2025.

6.4 Threatened Fauna

Mining and its associated activities can impact fauna species, including "threatened" species, either directly (road kills) or indirectly through habitat removal. Of particular importance are the 18 threatened fauna species which have been recorded within the Tritton area since 1998. These species include:

- Kultarr (*Antechinomys laniger*);
- Pink cockatoo (*Cacatua leadbeateri*;)
- Inland forest bat (*Vespadelus baverstocki*);
- Little pied bat (*Chalinolobus picatus*);
- South-eastern long-eared bat (*Nytophilus sp*);
- Yellow-bellied sheath-tail bat (*Saccolamus flaviventris*);
- Grey crowned babbler (*Pomatostomus temporalis temporalis*);
- Superb parrot (*Polyteslis swainsonii*);
- Pied honeyeater (*Certhionyx variegatus*);
- Varied sittella (*Daphoenositta chrysoptera*);
- Chestnut quail-thrush (*Cinclosoma castanotus*);
- Hooded robin (*Melanodryas cucullata*);
- Malleefowl (*Leipoa ocellata*);
- Grey falcon (*Falco hypoleucos*)**;**
- White-browed wood swallow (*Artamus superciliosus*);
- White-fronted chat (*Epthianura albifrons*);
- Turquoise parrot (*Neophema pulchella*); and
- Squatter pigeon (*Geophaps scripta*).

6.4.1 Environmental Management

The key threatening process at Tritton is land clearance activities. As discussed above in regards to threatened flora, a land surface disturbance permit is required prior to any land disturbance activities taking place. This permit also includes a pre-clearance survey of the proposed disturbance area. The pre-clearance survey in regards to fauna aims to identify potential habitat features such as hollow logs and trees with nests or hollows as well as any fauna persisting in the

area. Vertebrate fauna species found during pre-clearing surveys are relocated to areas of rehabilitation or to adjacent vegetation where possible. Hollow logs are also relocated to rehabilitation areas or to nearby undisturbed vegetation to continue to provide animal habitat.

Other risks to fauna at Tritton include potential interaction or collision with mobile machinery and the consumption of mine affected water. These risks are mitigated on site by the use of fences around the Mine Site perimeter and around dams and the provision of alternative water sources such as the environmental dam located north of the tailings storage facility.

6.4.2 Environmental Performance

During the reporting period no fauna surveys were conducted. To ensure interactions with wildlife are minimised and undertaken with due care and safety for both the fauna and site personnel, a number of staff members have been trained to handle and remove snakes from site.

6.4.3 Reportable Incidents

No reportable incidents occurred during the reporting period.

6.4.4 Further Improvements

Pre-clearance surveys will continue to be carried out prior to any habitat disturbance during 2025.

6.5 Weeds

Tritton is committed to the continual improvement of all land owned as part of the Tritton operations. The management of priority weeds plays an integral role in achieving this commitment and in maintaining successful land management practices. Priority weeds declared for the Bogan Shire Council that have been identified on Tritton include:

- Bathurst Burr;
- Noogoora Burr;
- African Box Thorn; and
- Galvanised Burr.

6.5.1 Environmental Management

Tritton has in place a Weed Management Plan. This plan calls for all priority weeds to be managed and controlled in accordance with the requirements within the *Biosecurity Act 2015* and any control works to be undertaken in consultation with the Bogan Shire Council, Livestock Health and Pest Authority (LHPA) and any relevant Weeds Advisory Committee where appropriate.

Management strategies employed at Tritton to control weeds include:

- Consultation with interested parties including environmental staff, local Councils, neighbouring landholders, the Central West Catchment Management Authority, and other identified stakeholders;
- Document the priority weed species that occur within the mining lease area;
- Ensure that topsoil stockpiles are regularly checked for weeds. If any are located, these are to be removed;
- Restrict vehicular access to areas of heavy weed infestation;
- Rehabilitate disturbed areas as soon as practicable; and
- The status of weeds will be regularly monitored especially within rehabilitation areas or areas of high disturbance.

6.5.2 Environmental Performance

Tritton utilise Bogan Shire Council for weed control across the site. The personnel monitored, documented weed type and population for eradication and removed/sprayed. Approximately 250m^2 in the vicinity of the magazine was sprayed during April and December of the reporting period.

6.5.3 Reportable Incidents

No incidents were recorded during the reporting period.

6.5.4 Further Improvements

Weed management at the Tritton Copper Mine during 2025 will continue to be undertaken as per the existing management procedures. Tritton will continue to adopt an adaptive management approach to weed management, with ongoing inspections and monitoring of the site to ensure that the monitoring/control program is efficient and meets the needs of legislation and operational requirements.

6.6 Blasting

Development and stoping activities utilise explosives in the mining process. All blasting activities undertaken on site were associated with underground mining. No surface production blasting was undertaken during the reporting period.

6.6.1 Environmental Management

Blasting is primarily confined to underground mining activities and therefore the effects of blasting are effectively contained within the mining lease area. During the reporting period blasting was undertaken within the Tritton underground operation (including Budgerygar). Explosives used were licensed (**Table 1**) and stored appropriately within the site explosives magazine.

6.6.2 Environmental Performance

The nearest sensitive receptors/neighbours reside 4.7km north and 4.8km south of the Tritton mine site. No complaints were received during the reporting period and therefore no monitoring for blasting was undertaken.

6.6.3 Reportable Incidents

No complaints were received during the reporting period.

6.6.4 Further Improvements

Tritton will continue to manage blasting in order to restrict its impact on nearby neighbours and sensitive receptors throughout 2025.

6.7 Operational Noise

Operational noise which may impact surrounding neighbours is primarily generated by surface vehicles, including trucks containing ore, travelling to and from Tritton and activities associated with ore processing such as operation of the plant, underground vehicles moving on the surface and earth moving equipment.

6.7.1 Environmental Management

To minimise unnecessary noise all equipment is maintained regularly to reduce noise and work efficiently. To further ensure Tritton is not generating noise which impacts on any surrounding residents, both noise monitoring and a complaints process is in place. In the event of a noise complaint from any surrounding residences, site personnel will investigate the complaint and implement appropriate mitigation measures and noise monitoring where appropriate.

The possibility of surrounding residences being impacted by Mine operations is considered to be low due to the distances between residences and the Mine Site.

6.7.2 Environmental Performance

Muller Acoustic Consulting Ltd (MAC) completed a Noise Monitoring Assessment on behalf of Tritton Resources on 27 September 2024. Attended noise monitoring was conducted at the closest residence to the Mine Site, approximately 4km south east of the Mine Site at the boundary of 2865 Yarrandale Road, Girilambone, NSW.

Table 15 outlines the results of the attended noise monitoring conducted during 2024. In summary, MAC stated that noise associated with the Mine was audible throughout the measurements, however mine noise emissions remained below the relevant noise criteria. . Other contributors to noise during the monitoring period included rural noise including wind, insects, birds and intermittent passing traffic.

Table 14
Noise Monitoring Results

Location	Date	Time	L_{Aeq} Reading [dB(A)]	Tritton Contribution [dB(A)]	L_{Aeq} Noise Emission Criteria as per EPL guidelines [dB(A)]
Wilga Downs Boundary	18/09/2024	09:06	56	<35	35
Wilga Downs Boundary	18/09/2024	21:20	31	<35	35
Wilga Downs Boundary	18/09/2024	00:08	30	<33	33

6.7.3 Reportable Incidents

No complaints were received during this reporting period.

6.7.4 Further Improvements

Tritton Resources will continue to manage noise in order to restrict its impact on nearby neighbours and sensitive receptors throughout 2025.

6.8 Visual, Stray Light

The Tritton operation is situated within a predominantly rural setting across a gently undulating to flat landscape. Within this landscape, possible sensitive light receptors are restricted to neighbouring residences (the nearest is over 4.5 km away) and vehicles using the Yarrandale Road. Yarrandale Road is not a major connecting path between towns and is mainly used by local properties and vehicles accessing the mining operations. The impact of the operation on local visual amenity and the lighting environment is low.

6.8.1 Environmental Management

Site infrastructure is generally shielded by intervening vegetation and gentle topography. Lights are pointed downwards towards site infrastructure to reduce the impact of stray light at night.

6.8.2 Environmental Performance

Lights from the Mine Site can be seen from Yarrandale Road. An additional tree screen was planted between Yarrandale Road and the Mine Site during 2016, however due to ongoing dry weather conditions a number of trees did not mature. Further plantings of trees were undertaken in 2018 with a lack of success due to drought. Tritton planted additional tubestock trees along the fenceline in front of the WRE in March 2021 to ensure the site tree screens are complete.

6.8.3 Reportable Incidents

No complaints from surrounding residents in regards to visual amenity or lighting were recorded during the reporting period.

6.8.4 Further Improvements

Tritton Resources will continue to assess, and manage where necessary, the visual amenity of the project throughout the next reporting period.

6.9 Aboriginal Heritage

Aboriginal Heritage was assessed during the initial approval stage for the Mine Site. No new archaeological sites were identified within the high potential impact areas of the operation during the reporting period (**Figure 6**). However, as exploration within the exploration leases and the expansion of the tailings facility progresses a number of sites, determined to be of low significance, have been discovered.

6.9.1 Environmental Management

To ensure Aboriginal Heritage is not affected, particularly during on-going exploration activities, surface disturbance permits are used to assess areas that are required to be cleared. A component of the surface disturbance permit requires a pre-clearance survey to be undertaken which involves an Environmental Officer inspecting the area to be disturbed for archaeological and heritage items or places of interest. If an item/site of possible Aboriginal heritage is discovered either during the pre-clearance survey or during exploration activities the following procedure is followed:

1. Cease work immediately.
2. Construct a barrier with flagging tape (or similar) around the potential item.
3. Notify the Environmental Officer for identification of the site.
4. Should work activity require continuing in the vicinity of the item the General Manger will be notified.
5. The General Manger will:
    a) Request a suitably qualified archaeologist to attend the site and assess the significance; and/or
    b) Request members from the Nyngan Local Aboriginal Land Council (NLALC) to also assess the significance of the item.
6. A Site Register Card will be forward to the Office of Environment and Heritage (OEH) for inclusion on the Aboriginal Heritage Information Management System (AHIMS) database if required.

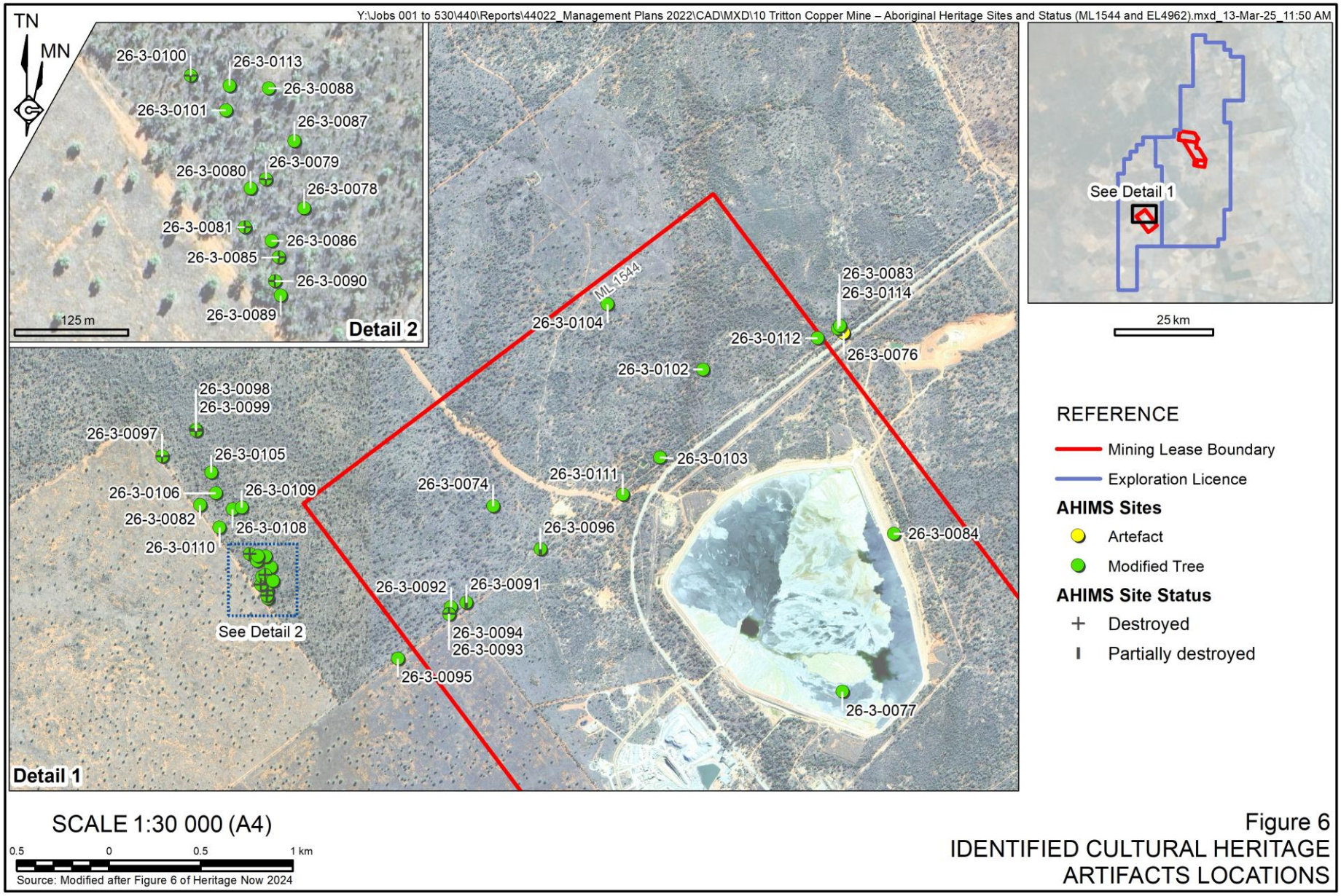


Figure 6
IDENTIFIED CULTURAL HERITAGE ARTIFACTS LOCATIONS

7. Subject to the recommendations from the archaeologist and/or NLALC, the appropriate permit to transfer will need to be sought prior to further work being undertaken in the vicinity of the site. Any such action to disturb or transfer items may also require the development of a salvage strategy in consultation with OEH.
8. The General Manager will implement any other procedures or recommendations issued by the OEH.

In the event that skeletal remains are uncovered, the following procedure is undertaken.

4. Cease work immediately within the area of discovery.
5. The area is cordoned off with flagging tape and marked "No Entry'.
6. The General Manager notifies the Nyngan Police.
7. No handling of the remains is permitted without the above-mentioned parties present.
8. Where the remains are determined to be Aboriginal, determination of procedures to be followed will be undertaken through consultation between NLALC and/or suitably qualified archaeologist and OEH and only under the authority of an appropriate permit.
9. No activity will be allowed in the vicinity of the find until such time as the relevant party(ies) provide formal advice to proceed.

6.9.2 Environmental Performance

An Aboriginal Heritage Condition Assessment was undertaken by Heritage Now Pty Ltd for the Tritton Copper Operations during the 2024 reporting period. The purpose of the heritage assessment was to update the existing baseline data for previously identified Aboriginal sites within the Project Area, and to identify any changes in status and condition since the original site recordings were made, particularly in the context of the recent bushfires. Recommendations were also made as a result of the assessment to guide future management of Aboriginal heritage within the Tritton Copper Operations and a potential update to the Tritton Mines Cultural Heritage Management Plan.

The status of identified Aboriginal artefacts were recorded throughout the survey with the majority of previously identified Aboriginal sites marked by star pickets or stakes, previously installed by the Tritton Copper Operations Environment Team. Identifying marks were used as a location aid to find the general area of the recorded sites, where the recorded coordinates in the AHIMS database and Tritton Mines CHMP were known to be inaccurate or incorrect. Updated coordinates were taken from the confirmed locations in the Tritton Copper Operations internal dataset, or re-recorded using a handheld GPS.

101 Aboriginal sites were inspected or assessed by Heritage Now Pty Ltd across the whole of the Tritton Copper Operations (Tritton Copper Mine, Murrawombie Mine, North East Copper Mine, and Avoca Tank Mine). Of the Aboriginal sites recorded within the Tritton Copper Operations area, 49 sites were considered to be valid and 26 sites have been considered to not be Aboriginal sites. 21 sites were considered to have been destroyed and an additional five sites were considered

to have been partially destroyed. Within ML1544, Tritton Copper Mine, 2 modified trees were considered to have been partially destroyed and one modified tree was considered to have been destroyed, the remainder of the sites were considered to be valid by Heritage Now Pty Ltd.

No previously unidentified items or sites were found during the reporting period.

6.9.3 Reportable Incidents

No incidents regarding Aboriginal heritage occurred during the reporting period.

6.9.4 Further Improvements

The current Aboriginal heritage management procedures will continue to be adhered to during 2025. Furthermore, any external contractors or members of the public who are given permission to undertake any activities on Mine Site land are to be availed the importance of and due diligence required when working around registered Aboriginal sites.

6.10 Natural Heritage

No natural or non-Aboriginal heritage sites or artefacts have been discovered within the Tritton or exploration areas during the reporting period.

6.10.1 Environmental Management

To ensure natural and non-Aboriginal Heritage is not affected, particularly during on-going exploration activities, surface disturbance permits are used to assess areas that are required to be cleared. A component of the surface disturbance permit requires a pre-clearance survey to be undertaken which involves an Environmental Advisor inspecting the area to be disturbed for archaeological and heritage items or places of interest. However, it is unlikely that sites or artefacts of significance are present within the area.

6.10.2 Environmental Performance

No natural or non-Aboriginal heritage artefacts or sites were identified during this reporting period.

6.10.3 Reportable Incidents

No incidents regarding natural or non-Aboriginal heritage occurred during the reporting period.

6.10.4 Further Improvements

The current heritage management procedures will continue to be adhered to during 2025.

6.11 Bushfire

Bushfire poses a serious threat to both the operation and the surrounding properties. The following are recognised as the principal potential causes of bushfire within the operational area.

- Fires on plant and equipment and/or occurring as a consequence of maintenance activities on that plant or equipment;
- Personnel actions for example smoking or undertaking activities in inappropriate areas or without adequate controls; or
- Natural incidents such as lightning strikes.

6.11.1 Environmental Management

To protect the mining operation and minimise the potential for the operation to cause a bushfire the following controls are in place:

- Activities requiring an open flame or spark (such as welding or cutting) are conducted within workshop areas where practicable, if these duties are to be undertaken outside of the workshop areas a permit is required. In the event that welding or cutting is to be conducted outside of the workshop areas, the following safeguards will be considered:
  - All flammable material will be removed from within a 20m radius;
  - All flammable liquid will be cleared from the work area;
  - Fire extinguishers will be positioned within 10m of the work area; and/or
  - All controls identified under a hot work permit must be put in place.
- All workshops and offices will be installed within an approved fire extinguisher. Their location will be indicated by an appropriate sign.
- All fuel and oil storage will be located and constructed in accordance with the requirements the applicable legislation and will be fitted with suitable fire extinguishers.
- The ground around fuel and oil storage areas will be kept free of combustible vegetation for at least 3m.
- Designated No Smoking Areas will be clearly marked. These areas include:
  - Within 10m of fuel and oil storage areas;
  - Within 10m of explosive magazines;
  - When transporting explosives, or within 20m of a vehicle transporting explosives;
  - Within workshops;
  - All buildings and offices; and
  - Any areas containing gas cylinders.

- Equipment / vehicles will not be stored / parked on uncleared ground.
- Vehicular access areas will be maintained free of combustible vegetation and windblown litter around all areas of mining-related activities.
- Fire extinguishers are kept on all mobile equipment.
- All fire extinguishers will comply with AS/NZS 1841.11:1997.
- All fire equipment and extinguishers are to be kept in a serviceable condition.
- All fire equipment, where appropriate, will be compatible with that of the Rural Fire Service.
- A fully equipped fire tender will be maintained to provide immediate response to a bushfire.
- Water for firefighting purposes will be sourced from various water storages within the management area.
- A suitable fire break will be established and maintained around the perimeter of the mine. Fire breaks should be a minimum of 6 m wide and kept free of flammable material as far as practicable. Additional fire breaks will be maintained around explosive magazines and flammable material storage areas where necessary.
- Fire breaks are inspected at 6 monthly intervals by the Environmental Officer.

6.11.2 Environmental Performance

No bushfires occurred at or in the vicinity of the Mine during this reporting period.

6.11.3 Reportable Incidents

No incidents regarding bushfire incidents occurred during the reporting period.

6.11.4 Further Improvements

The bushfire management procedures will continue to be adhered to during 2025.

6.12 Hydrocarbon Contamination

Active mining at Tritton Resources involves the use of hydrocarbon-fuelled machinery including diesel heavy machinery and processing plant equipment, which in turn utilises a variety of hydrocarbon products and volumes. The storage, transfer and use of hydrocarbon products, creates potential for hydrocarbon contamination events.

6.12.1 Environmental Management

Tritton has a Hydrocarbon Management Plan in place to assist it in meeting Australian Standards and statutory obligations for hydrocarbon management. As part of the management plan, employees and contractors at Tritton are educated about hydrocarbon contamination management during the induction phase prior to commencing work on the mine site. This includes "The three C's" (Control, Contain, Clean-up). Spill response kits are located in areas where a risk of hydrocarbon contamination can exist, these areas include:

- Fuel bays;
- Workshops;
- Processing plant; and
- Stores.

All spills require clean up irrespective of volume and size. However, spills in excess of 20L requires clean up and reporting via the Tritton incident reporting system and entry into the onsite database. Soil that has been contaminated by hydrocarbons is removed and placed in the bioremediation facility for treatment and rehabilitation.

6.12.2 Environmental Performance

Tritton Resources onsite incident management system recorded no hydrocarbon spills in excess of 20 L during the 2024 reporting period.

All hydrocarbon waste was removed from site during the reporting period by an approved contractor for recycling. Tritton Resources utilises the contractor on a monthly basis throughout the year to prevent a large build-up of hydrocarbon waste on site.

The bioremediation facility was treated and tested three times during the reporting period, with the results of the testing shown in **Table 15**.

Table 15
Bioremediation Facility Testing Results

	Total Petroleum Hydrocarbons (mg/kg)					Total Recoverable Hydrocarbon - NEPM 2013 Fractions (mg/kg)					
Date	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 Fraction (sum)	C6-C10	C6-C10 Fraction minus BTEX (F1)	>C10-C16	>C16-C34	>C34-C40	>C10-C40
Cell 1											
19/04/2024	10	50	3920	8640	12600	10	10	60	9170	8290	17500
27/09/2024	10	620	12100	2340	15100	10	10	2490	11900	1650	16000
14/11/2024	10	190	13000	15800	29000	10	10	340	23600	12000	35900
Cell 2											
19/04/2024	10	50	340	470	810	10	10	50	670	300	970
27/09/2024	10	50	100	100	50	10	10	50	100	100	50
14/11/2024	10	90	680	670	1440	10	10	80	1130	440	1650

6.12.3 Reportable Incidents

No externally reportable incidents were recorded during the reporting period for hydrocarbon contamination.

6.12.4 Further Improvements

Hydrocarbon management procedures will continue to be adhered to throughout 2025.

6.13 Methane Drainage/Ventilation

Methane gas is generated from carbonaceous soil types. Evidence of carbonaceous material within the Tritton underground operation has not been identified during the reporting period and therefore no methane has been detected or released.

6.13.1 Environmental Management

Gas detectors are used on site on diamond drill rigs as a frontline safety/environmental identification tool. If methane is identified, work is to stop and the risk is assessed.

6.13.2 Environmental Performance

No methane has been detected during the reporting period.

6.13.3 Reportable Incidents

No incidents were recorded during the reporting period.

6.13.4 Further Improvements

No further environmental improvements are anticipated for the next reporting period as the likelihood of methane being present is low.

6.14 Public Safety

Any operating mine can be a potential safety hazard to persons who have not been properly trained or authorised to enter the site. It is therefore imperative that any threat to public safety is eliminated and/or managed appropriately.

6.14.1 Environmental Management

A number of management measures have been developed to maintain public safety. These include:

- Fencing around the perimeter of the operation;
- Procedural site entry is via induction and sign-in/out registers through the main gate access points. Vehicle entry is via approved use of electronic swipe cards at boom gates.
- Signage has been installed around the site boundary advising the public that unauthorised entry into active mining areas is not permitted.
- Inspections of boundary fences are conducted in-line with routine groundwater sampling to ensure no access can be gained to site other than through the access gates.

Also to ensure public road safety all haul trucks are required to have a flashing beacon and are to abide by speed limits.

6.14.2 Environmental Performance

Security cameras were installed around the main boom gate entry in 2015 and boundary fences were inspected regularly throughout 2024, to minimise and reduce unauthorised entry.

One breach of site security was recorded during the reporting period with an unlawful access to the Tritton Copper Mine. Appropriate measures were taken in accordance with site management measures to manage the breach and to prevent future breaches as far as practicable.

6.14.3 Reportable Incidents

No incidents were recorded during the reporting period.

6.14.4 Further Improvements

No further improvements have been planned.

7. Water Management

7.1 Introduction

The primary source of water for the Tritton operation is the surface water allocation from Burrendong Dam. Tritton Resources extracts water from a metered off take point at a small weir at the confluence of Gunningbar Creek. Gunningbar Creek and Burrendong Dam are connected via the Macquarie River. Water is pumped to the Girilambone Raw Water Dam (located at the Murrawombie Copper Mine) by an electric pump station incorporating two booster pumps along the pipeline. The pumps are able to be operated remotely from the Tritton site and have the capacity to pump water at 130 m^3 per hour. Water is pumped from the Girilambone Raw Water dam to the Tritton Raw Water dam via a buried pipeline where it is distributed across the Mine Site.

As a result of the drought conditions experienced in 2018 and 2019, DPIE Water approved the closure of the Gunningbar Weir and flows ceased from 1 December 2019. The closure of the Gunningbar Weir resulted in Tritton Resources' inability to access its water allocation for a portion of the reporting period. In response Tritton Resources constructed a pipeline from the Mine to an off-take point on the Nyngan-Cobar pipeline near the village of Hermidale to allow Tritton Resources to access its water allocation. The pipeline is approximately 18km in length extending from Hermidale to the Tritton Mine Site.

Table 16 shows the details of the three Water Access Licences (WALs) Tritton Resources holds to obtain water from the Macquarie and Cudgegong Regulated Rivers Water Source of the Water Sharing Plan of the same name. There is also a single WAL to obtain water from the Lower Bogan Unregulated River Water Source of the Water Sharing Plan for the Macquarie Bogan Unregulated and Alluvial Water Sources 2012. The details of these licences are as follows.

1. High Security Licence, licence number 9374 (705 Unit Shares).
2. General Security Licence, licence number 9375 (210 Unit Shares).
3. Supplementary Licence, licence number 9940 (16 Unit Shares).

Table 16
Water Take

Water Licence #	Water Sharing Plan, Source and Management Zone (as applicable)	Entitlement (FYI)	Passive Take/Inflows	Total Pumping
9374	Macquarie and Cudgegong Regulated Rivers Water Source	705 Unit Shares	-	705.9ML
9375	Macquarie and Cudgegong Regulated Rivers Water Source	210 Unit Shares	-	
9940	Macquarie and Cudgegong Regulated Rivers Water Source	16 Unit Shares	-	

The total combined allocation (for Tritton, Girilambone and North East operations) is 931ML. It should be noted that the total allocation doesn't reflect the reduction in access imposed by drought restrictions, or the addition of temporary water purchased throughout the year. It should also be noted that the licence allocation season is 1 July to 30 June and therefore does not align with the reporting period. Approximately 705.9ML of raw water from these licences was utilised between Tritton, Girilambone and North East during the reporting period.

Other sources of water supply include:

- pit dewatering;
- Tritton surface water catchment;
- Nyngan town water supply (trucked to site for potable and ablutions);
- bottled water provided for drinking purposes (15L bottles);
- reclaimed water from the tailings storage facility; and
- reticulated underground water from the underground operations.

Tritton are currently licensed for the groundwater extraction of 30ML (WAL31090) and 304ML (WAL31041). During 2024, monitoring data indicate approximately 55.4ML of water was dewatered from Tritton underground workings and approximately 14ML of surface water was pumped for use underground, resulting in a total approximate take of 41.4ML during the reporting period. No groundwater was dewatered from Hartman's Pit at North East Mine Site, and a total of 2820m^3 was dewatered from the Murrawombie pit.

Under each WAL, Tritton is required to maintain accurate records of any water taken under licence. However, it is noted that the North East water meter was burnt during the bushfire event of 2023. The meters at North East and Murrawombie were replaced in July 2024.

During the previous reporting period, recording errors were identified in the reported data from on-site flow meters which resulted in inaccurate recording of the water take under WAL31090 and WAL31041. Tritton completed an investigation to identify the cause and establish/estimate total take. The North East and Murrawombie meters were replaced as a result of the investigation. In addition, a new water meter was installed at the Tritton escape way meter.

Water infrastructure at Tritton is displayed on **Figures 2** and **7**.

A number of water storages are directly used for operational purposes and are therefore maintained at specific levels. These storages include:

- TSW08 – Environmental Pond
- TWS04 – Tritton Raw water dam
- TWS09 – Process Water Pond
- GSW03 – Girilambone Raw Water Dam

Tritton also has a number of fluctuating water storage structures which are not direct operational structures and are therefore particularly influenced by natural occurrences such as rainfall, catchment runoff and evaporation. These storages include:

- TSW01 – Tritton Containment Dam
- TSW02 – Decant Water Pond
- TSW03 - Seepage Trench

7.2 Erosion and Sediment Control

Mining activities can generate exposed soil formations such as stockpiles, waste rock emplacements, drains, and roads. Interaction with water in the form of rain or runoff and wind can lead to sediment loss and erosion. Locations at Tritton that are susceptible to erosion include the topsoil and subsoil stockpiles, dam walls and drains.

An Erosion and Sediment Control Plan was prepared in 2015 which establishes a number of best management practices that have been implemented at the Mine Site. The plan addresses construction, rehab, monitoring, and self-auditing.

7.2.1 Environmental Management

Soil resources need to be managed to ensure soils are not eroded in their natural or stockpiled state so it is available for rehabilitation of disturbed mining areas. The objectives of good erosion and sediment control practices are:

- To minimise the impact of construction and operational activities on erosion and the sedimentation of disturbed land, watercourses and water bodies;
- To minimise the loss of topsoil from areas disturbed by mining activities;
- Disturbance is restricted to those areas identified in the Rehabilitation Management Plan or Forward Program;
- Surface water discharges from disturbed areas are captured by sediment control systems;
- There is no increase in erosion / sediment deposition in downstream watercourses; and
- The water quality in downstream watercourses and water bodies is not negatively impacted by Tritton's operations.

To meet the above objectives, on-going erosion and sediment control activities include:

- Inspection and replacement of sediment fencing and straw bales as required;
- Inspection and re-shaping/reinstatement/upgrading of temporary sediment control structures;
- Replanting of underperforming revegetation areas;
- Fauna and pest control;
- Track maintenance; and
- Rehabilitation trial areas.

Monitoring of erosion is undertaken annually. The method involves taking handheld GPS geo-reference information and photos with relevant photo-scaling and/or transect dimension information (depending on the extent of erosion), to gather data, assess condition and identify areas of maintenance improvements. It also involves measuring the distance from a fixed metal

band extended between two pegs to the surface of a rill or erosion feature to establish an erosion profile of risk areas. If observed erosion within rehabilitation monitoring sites is more than 30% greater than at analogue monitoring sites, remediation works will commence. The location of each monitoring point is shown in **Figure 7**.

7.2.2 Environmental Performance

Erosion and sediment control monitoring conducted during 2024 was primarily concerned with the TSF embankment wall rehabilitation areas. Tritton have established three transect dimension monitoring points, two on the TSF embankment wall and one on an analogue site within the mine lease. Cross sections of each of the monitoring points are provided in Cross Section Graphs 1-3 (**Appendix 1**).

The erosion and deposition depth data for the TSF embankment wall monitoring sites, EROSTR001 and EROSTR002, are generally consistent with the previous reporting period. The analogue site results are relatively stable, the most significant change being increased erosion along the middle of the profile (increase in depth of up to 10mm) since the 2023 reporting period. Both erosion and deposition were observed at the EROSTR001 profile, with the change in depth ranging from -10mm to 3mm. All results are in line with the expectations of less than 30% change compared to the analogue site.

7.2.3 Reportable Incidents

No incidents were recorded during the reporting period.

7.2.4 Further Improvements

Erosion and Sediment controls at the Tritton Copper Mine during 2025 will continue to be undertaken as per the existing management procedures.

7.3 Surface Water

Mining operations have the potential to impact upon surrounding surface water catchments. A range of geological and process substances are utilised by the operation which can lead to surface water contamination. However, as a site with no off site water discharge capability this potential is limited to water storage failure or overtopping. Water collected in water storages across the site is therefore monitored to enable effective management of both water resources and the surrounding landscape in case of an incident.

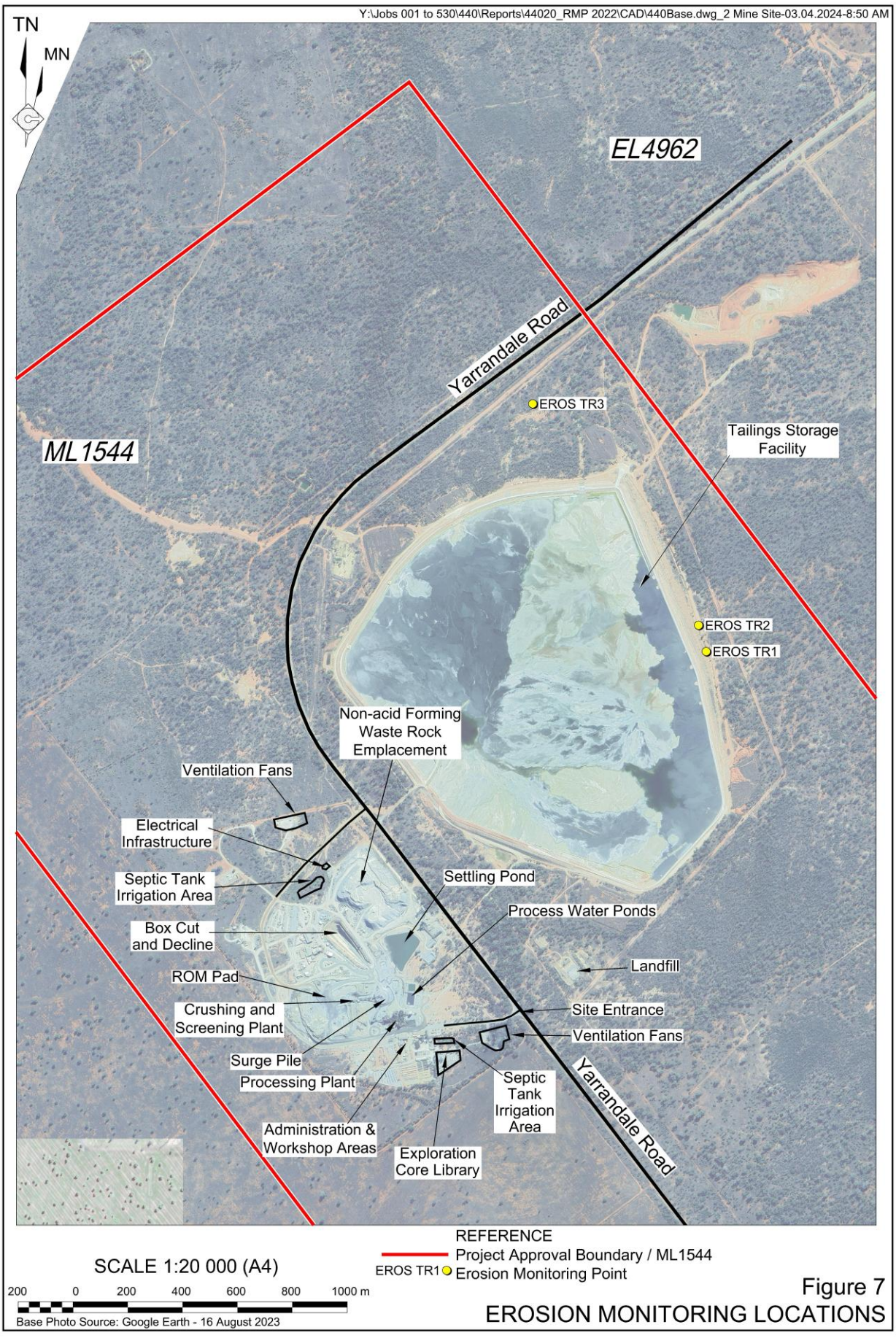


Figure 7
EROSION MONITORING LOCATIONS

7.3.1 Environmental Management

Tritton aims to reduce the level of impact associated with mining operations on the surrounding surface water by putting in place the following controls:

- Implementation of the Tritton Water Management Plan;
- Implementation of the Erosion and Sediment Control Plan;
- Diversion channels to deflect unnecessary rainfall runoff from surrounding undisturbed catchments entering mine affected areas;
- Management and separation of contaminated and dirty water;
- Site-wide management and bunding of chemicals and hydrocarbons to reduce/eliminate secondary sources of potential water contamination;
- Surface water sampling to assess water quality and identify areas of improvement.

Surface water monitoring is conducted regularly in order to comply with conditions set in the site development approvals and to continuously determine the effectiveness of the Water Management Plan, associated mitigation measures and suitability to Australia and New Zealand Environment Conservation Council (ANZECC) criteria.

Table 17 identifies the surface monitoring locations, water storage classifications and associated sampling schedule.

Surface water samples are sent via courier under Chain of Custody to Australian Laboratory Services (ALS Environmental) in Sydney for analysis. The ALS lab uses National Association of Testing Authorities (NATA) accredited methods to carry out analysis of all water samples collected. All results are compared to the following criteria/guidelines:

- ANZECC - Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) Volume 1 Chapter 4 Primary Industries Livestock Drinking Water Guidelines; and
- ANZECC - Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) Volume 1 Chapter 4 Primary Industries Irrigation and General Use Water Guidelines.

These guidelines will be referenced in the remainder of the document as “selected criteria” ANZECC (stock) and/or ANZECC (irrigation).

7.3.2 Environmental Performance

Tritton Surface water analytical results have been summarised in **Appendix 2**. The following presents a description of the relevant trigger values used for analysis of the results, as well as a summary of the environmental performance by water storage.

Table 17
Surface Water Monitoring Schedule

Water Facility Classification*1	Monitoring Identification	Function and Description	Sampling Frequency	Analytical Suite	Beneficial Use*2
Clean	TSW04	Tritton Raw Water Pond is the main receptacle for river water via the Girilambone Raw Water Dam (GSW03). It is located next to the processing pond, on the northern side of the processing plant. It has no surrounding catchment; it is lined with High-Density Polyethylene (HDPE) liner and regulated with pumps. The intended final land use for the site is agricultural and this water is utilised for dust suppression. The analytes in the water have the potential to build up in the soil, therefore a conservative approach is used by comparing this water quality to that of the irrigation guidelines.	Monthly	• pH • Electrical Conductivity • Total Dissolved Solids • **Anions:** Bicarbonate, Chloride, Nitrate, Nitrite, Sulphate • **Cations:** Calcium, Magnesium, Potassium, Sodium • **Metals:** Antimony, Arsenic, Cadmium, Chromium, Copper, Iron, Manganese, Mercury, Nickel, Lead, Vanadium	Stock & Irrigation
	TSW08	Environmental Pond is a requirement of Tritton's DA 41/98 as an alternative water source to that of the tailings dam for fauna. It is situated on the Travelling Stock Reserve and is utilised as a watering dam for any stock on this route. For these reasons it was compared against the stock drinking guidelines. The water is primarily rain water and when the levels drop site operating conditions require it be filled with water which is sourced from the Tritton raw water line.			Stock & Irrigation
Contaminated	TSW01	Tritton Containment Dam is located down topographic gradient to the east of major mining activity. It is designed to catch all contaminated water from the Mine Site. This includes the run of mine (ROM) pad, the coarse ore stockpile (COS), copper concentrate load out area and the processing plant all of which contain ore. Elevated Total Dissolved Solid (TDS) and Sulphate (SO_4) levels along with cadmium and copper are expected to be a direct result of contamination collected by surface water runoff within the catchment area. TSW01 is lined to contain seepage and was designed to capture all runoff from areas disturbed by mining and possibly contaminated.			None – Industrial
	TSW02	Decant Water collects all the water which is separated from the tailings. This area replaces the former decant trench which was backfilled and compacted in 2008 due to likely groundwater impact via seepage.			None – Industrial
	TSW03	Seepage trench is designed to collect any seepage that may occur from the TSF main embankment.			None – Industrial
	TSW09	Process Water Pond collects discharge water from the processing plant and return water from the Tailings decant (TSW02) and is lined with a HDPE liner. The process water pond is located next to the TSW04 (Raw water pond). It receives water which is pumped directly out of the processing plant and TSW02 (decant water). This water storage has no surrounding catchment.			None – Industrial
	TSW10	Return water from Underground. Groundwater intercepted by underground operations is pumped to the surface and stored in TSW10 as part of the reticulation system. In the event of potential overflow, pipework enables water to be sent to either the TSF or drainage channels enable waters to flow into TSW01 Tritton containment dam.			None – Industrial

*1 As per I&I NSW classification EDG03 – Guidelines to the Mining, Rehabilitation and Environmental Management Process, NSW DPI, January 2006.

*2 As per ANZECC (stock) and ANZECC (irrigation) guideline definitions.

Relevant Trigger Levels

Tritton Resources notes that clean water storages surrounding the Tritton Copper Mine, namely TSW08 – Environmental Pond, may on occasion be used by travelling stock or wildlife. As a result, it has selected the ANZECC Livestock Drinking Water trigger values for cattle (the most likely stock to drink the water) as relevant criteria for these storages. However, as livestock access to contaminated storages is restricted and as these storages offer poor habitat for wildlife, no criteria have been selected for these storages. Rather, significant deviations from previous results are investigated.

Clean Water Storages

TSW04 Raw Water Pond

Results indicate copper levels were within relevant trigger levels throughout the reporting period Elevated copper concentrations were frequently observed during the previous 2022 reporting period and also the 2023 reporting period and are expected due to the deliberate mixing of raw water with pit water from the Murrawombie operation.

TSW08 Environmental Pond

Water within the Environmental Pond was within the relevant trigger values with the exception of pH on 10 February 2024. This pond receives water from the raw water pipeline from the Bogan River, with limited potential for mining-related contamination.

Contaminated Water Storages

Waters within contaminated water storages at Tritton are used for processing ore only and are collected and recycled through the process plant. Though these waters are not suitable for stock watering or irrigation, they are of a quality which is acceptable for use within mine processing. Water from contaminated water storages is not discharged off site and is therefore not a threat to the surrounding environment.

Selected assessment criteria is not necessarily required for the following water storage facilities as the contained water is either evaporated or returned to the processing circuit and not discharged from the Mine. However, selected criteria have been applied with the intention of defining environmental risk and the degree of harm associated with a potential spill.

TSW01 Containment Dam 1

A review of the results against the selected criteria shows concentrations of a range of parameters to be of a level not suitable for either stock or irrigation purposes. However, this water is used for ore processing only and is not released from site for either stock watering or irrigation. pH, cadmium, copper, cobalt, sulfate, pH, total dissolved solids and conductivity all exceeded guideline values during the year at this location.

TSW02 Decant Water

A review of the results against the selected criteria shows concentrations of a range of parameters to be of a level not suitable for either stock or irrigation purposes. However, this water is used for ore processing only and is not released from site for either stock watering or irrigation. Water within the Tailings Storage Facility typically had a low pH, elevated levels of cadmium, cobalt, copper, nickel, zinc, conductivity, sulphate, and total dissolved solids.

TSW03 Seepage Trench

Two samples were taken from this location during the reporting period. Water within the seepage trench had an average acidic pH (3.79), elevated electrical conductivity, and elevated levels of sulphate, and total dissolved solids.

TSW09 Process Water Pond

This pond collects discharge water from the processing plant and tailings storage facility and is therefore expected to be of a similar poor quality to the tailings facility. This storage recorded low pH levels, elevated conductivity and total dissolved solid levels, and elevated concentrations of sulphate throughout the reporting period.

TSW10 Return Water from Underground

Groundwater that is intercepted by underground operations and used by the underground operations is either pumped to the surface and used for processing, sent to the Tailings Storage Facility for evaporation and/or is stored in the Containment Dam (TSW01), or utilised by the mill for processing. Return water recorded elevated electrical conductivity and total dissolved solids levels and elevated concentrations of sulphate during the reporting period.

TSW11 Tritton Paste Plant Pond

This pond is located adjacent to the Paste Plant and is designed to capture water runoff from the WRE and immediate operating area of the Paste Fill Plant. No samples were collected at this location during the reporting period. However, historic water monitoring results have indicated that this water is not suitable for either stock or irrigation purposes. This water is pumped into the containment dam and then used for processing purposes only and is not released from the Mine Site.

7.3.3 Reportable Incidents

No reportable surface water quality incidents occurred during the reporting period.

7.3.4 Further Improvements

Surface water management at the Tritton Copper Mine during 2025 will continue to be undertaken as per the existing management procedures. In 2019 Tritton engaged an Environmental Consult to conduct a site wide water monitoring data and procedure review. Recommendations were made to reduce monitoring frequency at a number of locations. These recommendations were implemented during the reporting period.

Tritton will continue to adopt an adaptive management approach to surface water management, with ongoing inspections and monitoring of surface water results to ensure that the monitoring program is efficient and meets the needs of legislation and operational requirements. The results of these inspections and monitoring will be reviewed on receipt and, in the event anomalous results are observed or received, the reason for those results will be investigated and measures implemented to ensure the potential for adverse surface water impacts are minimised.

7.4 Groundwater

Mining operations have the potential to impact upon the regional groundwater. These potential impacts can be from extraction of groundwater to enable safe and efficient underground mining activities or via seepage of contaminated surfaces waters to underground aquifers. To ensure that any impact on groundwater resources is identified and managed, regular monitoring is undertaken. This section describes the results of that monitoring for 2024.

7.4.1 Environmental Management

To determine the potential impact on groundwater from operational activities, groundwater monitoring is undertaken. **Table 18** defines the frequency of sampling, the type of analysis undertaken and any associated conditional requirements. **Figure 8** identifies the monitoring locations.

Table 18
Monthly Groundwater Monitoring Schedule

Groundwater Monitoring Point	Analysis requirements	Purpose
PZH001-PZH012, PZH014 – PZH015 and PZH017-PZH023	Arsenic, Barium, Beryllium, Cadmium, Chloride, Chromium, Cobalt, Conductivity, Copper, Iron, Lead, Manganese, Mercury, Nickel, Standing water level, Sulphate, Vanadium, Zinc, pH.	Potential impacts associated with TSF leachate.
PB001	No analysis is required however SWL's are recorded when access is available. A pump & float trigger regulate water levels at this pump. This pump was reinstated during October 2024. Analysis of any sampling of this bore will be included in the 2025 Annual Review.	
PZH001S , 2S, 3S, 5S, 6S, 7S,	No data collected for 2024 as bores were dry.	
Tip 1 - 2	Bores were dry throughout 2024	Potential landfill leachate.

Groundwater sampling is undertaken in accordance with Groundwater Sampling Guidelines, EPA June 2000 utilising low flow purging and bailing techniques. All equipment is decontaminated to prevent of cross-contamination and samples are chilled for storage and transportation.

7.4.2 Environmental Performance

An investigation was commenced in 2012 to clarify potential groundwater impacts underlying the tailings storage facility. This investigation was initiated by the Environmental Protection Authority (EPA) and was required as a Remedial Action Plan "RAP" under the Tritton Environmental Protection Licence. During 2013 the RAP was developed and submitted to the EPA. The objective of the RAP was to assess possible groundwater contamination with the aim of ensuring that the Mine Site is suitable for ongoing mining land use and the historical Mine Site activities do not pose an unacceptable risk to human health or the environment in accordance with the Contaminated Land Management Act 1997.

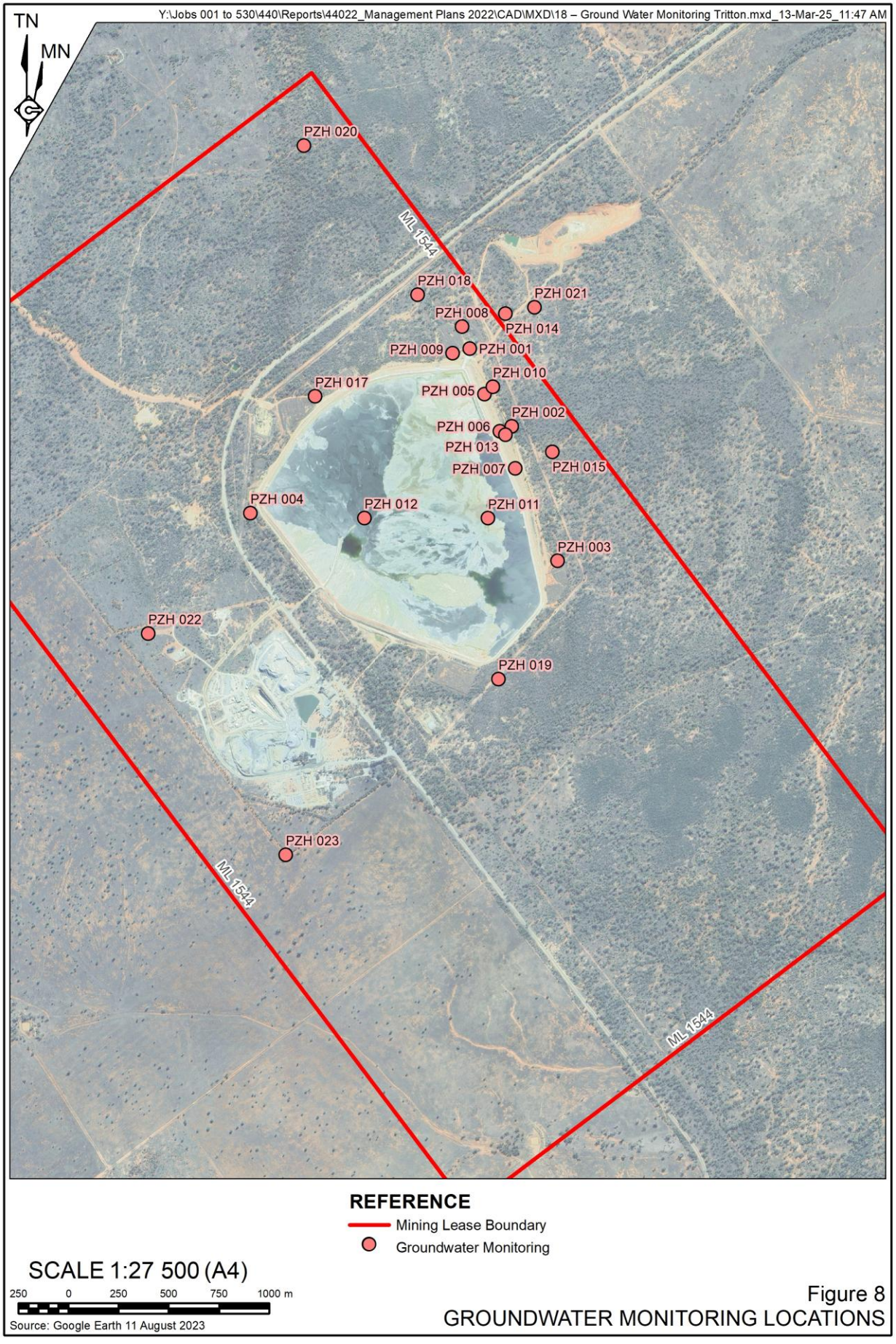


Figure 8
GROUNDWATER MONITORING LOCATIONS

The RAP concluded that whilst there have been changes in standing water levels within the groundwater monitoring bores, there was no evidence of groundwater contamination identified on the site. It also concluded that these changes are attributable to the pressure of the TSF contents compressing the aquifer and do not represent leakage of the TSF to the groundwater system.

On 14 July 2014 the EPA concurred with the findings of the Tailings Storage Facility RAP. Following this, the dewatering of PB001 has ceased and the closure of bores PZH011 Deep and Short, PZH012 and PB002 were undertaken as per the RAP recommendations.

Groundwater analytical results have been summarised in **Appendix 3**. The following is a summary of the groundwater monitoring program against applicable criteria. Monitoring locations are depicted on **Figure 8**. Groundwater results were also compared to the ANZECC guidelines for stock watering and irrigation.

It should be noted that all background groundwater exceeds the guidelines for conductivity, Sulphate and Total Dissolved Solids and there is no beneficial use currently for groundwater at or near the Mine Site.

Water Quality

The results of routine water quality sampling undertaken throughout the reporting period are summarised below.

pH remained stable for all of the monitoring bores throughout Tritton (pH 6.51 – 8.27), however one pH outlier was observed during March at bore PZH018 with a pH of 5.11. Recorded metal concentrations were below trigger levels for irrigation and were below stock watering trigger values for all other groundwater bore samples throughout the reporting period.

Electrical conductivity, total dissolved solids and sulphate levels remained consistently elevated above stock watering trigger values throughout the reporting period at all monitoring locations. Groundwater quality results are expected and are consistent with groundwater quality within the region.

The landfill monitoring piezometers (Tip 1 and Tip 2) were installed to detect and assess potential landfill leachate. These bores have remained dry since installation. The dry conditions suggest the absence of leachate.

Standing Water Levels

Surface water levels remained relatively stable throughout the reporting period within all Tritton piezometers (**Table 19**).

7.4.3 Reportable Incidents

No reportable incidents occurred during the reporting period.

Table 19
Groundwater Average Standing Water Levels (mRL)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PZH001	7.0	8.3	8.0	8.0	8.0	6.6	6.7	6.4	6.8	6.7	7.0	36.8
PZH002	25.5	25.4	26.3	26.2	26.0	23.2	26.0	23.0	24.4	24.6	24.5	25.5
PZH003	54.8	54.7	55.8	55.7	55.2	54.1	55.0	54.0	53.7	55.1	53.4	53.8
PZH005	8.2	8.1		9.1	8.0	7.9	7.9	7.8	8.1	8.3	8.3	8.5
PZH006	32.1	32.5	32.7	32.3	31.4	32.2	32.1	35.9	32.1	31.3	31.5	31.6
PZH007	35.5	35.3	40.9	45.5		32.1	32.0	31.8	33.8	34.1	34.5	34.5
PZH008	13.8	12.6	13.6	13.6	14.8	13.1	13.0	13.3	13.2	13.2	13.4	13.6
PZH009	9.6	9.4	10.6	10.6	10.6	9.5		9.5	9.3	9.7	10.0	9.9
PZH010	29.7	29.7	30.2	30.3	30.4	28.9	28.9	28.7	28.8	28.8	28.9	29.2
PZH014	42.6	42.7	42.8	42.8	42.7	40.7	40.6	41.9	41.1	41.3	46.2	41.8
PZH015	48.9	44.3	43.0	43.0	44.0	42.5	42.4	43.2	42.3	42.0	42.3	42.8
PZH017	37.5	38.6	38.6	38.6	38.3	38.7	38.7	38.1	38.7	35.7	35.9	35.8
PZH018	12.2	13.3	13.4		11.8	14.6	14.5	11.4	11.6		11.7	11.8
PZH019	91.6	90.9	89.1			85.7	85.6	85.5	85.4	85.0	10.0	84.6
PZH020	71.1	69.8	69.2		66.9		66.9	66.5	63.1	62.4	62.0	61.5
PZH021	44.1	43.5	44.2	44.7	44.6	42.0	41.9	41.8	43.1	43.0	42.9	43.1

* An excel spread sheet of the 2024 data is available upon request

7.4.4 Further Improvements

During a previous reporting period Tritton engaged an Environmental Consultant to conduct a monitoring data and procedure review. The report indicated many of the monitoring locations were stable and the monitoring frequency could be significantly reduced. An updated monitoring program will be presented in the revised Water Management Plan following approval.

Tritton will continue to adopt an adaptive management approach to groundwater management, with ongoing inspections and monitoring of groundwater results to ensure that the monitoring program is efficient and meets the needs of legislation and operational requirements.

8. Rehabilitation

8.1 Buildings

No rehabilitation of existing building areas occurred during 2024. The existing buildings will be rehabilitated as part of mine closure.

8.2 Rehabilitation of Disturbed Land

A summary of the disturbed areas is provided in **Table 20**.

Table 20
Rehabilitation Summary

Area	To Date (ha)	2024 (ha)	2025 (estimate) (ha)
Mine Lease Area			
ML 1544	1400		
Disturbed Areas			
Infrastructure	21.5	0	0
Active Mining Area	1.6	0	0
Waste Emplacements (Active)	6	0	0
Tailings Emplacements	152.7	0	0
Shaped Waste Emplacements	N/A	0	0
All Disturbed Areas (includes diversion drains)	216.2	0	0
Rehabilitation Progress			
Total Rehabilitation Area	2.8	0	0
Rehabilitation on Slopes			
10 to 18 degrees	0	0	0
Greater than 18 degrees	3.8	0.0	0
Surface of Rehabilitated Land			
Pasture and grasses	3.8	0.0	0.0
Native Forest/Ecosystem	0	0	0
Plantations and crops	0	0	0

All areas of the Mine Site are still being actively used as part of the operation.

Areas listed on the Tritton Contaminated Lands Register, such as the Tailings Storage Facility (TSF), Waste Rock Emplacement and processing hardstand, will be rehabilitated progressively where available and/or at mine closure.

Tritton modified it's hydroseeding approach to that completed in 2018 based on advice from its restoration ecologist in 2020. The modifications included maintaining dozer rip lines following soil amelioration (addition of gypsum) and trial the addition of biological resources. It is anticipated that maintaining the rip lines and the addition of retained timber logs will accelerate ecological function and stability.

Table 21 provides a summary of the maintenance activities undertaken on rehabilitated land during the reporting period.

Table 21
Maintenance Activities on Rehabilitated Land

Nature of Treatment	Area Treated (ha)		Comment /Control Strategies/Treatment Details
	Report Period	Next Period	
Additional erosion control works	>0.1	To be determined	
Re-covering	0.0	0.0	
Soil treatment	0.0	To be determined	Tritton will continue to treat contaminated soil within the bioremediation facility
Treatment/Management	15	0	
Re-seeding/Replanting	1	8	A trial occurred in the reporting period, and will expand in the 2024 reporting period.
Adversely affected by weeds	>0.01	To be determined	Areas of weed infestation are sprayed with herbicide or physically removed.
Feral animal control	N/A	0	Aerial shooting on Tritton owned properties adjacent to the mining lease

8.3 Other Infrastructure

Rehabilitation of any currently existing infrastructure was not undertaken during the reporting period. All current infrastructures are in use and at this time are expected to remain in use until mine closure.

8.4 Rehabilitation Trials and Research

8.4.1 TSF Feasibility Assessment

In 2020 a feasibility assessment for future tailings storage at the Tritton site was conducted. The study examined the feasibility of further raising of the TSF embankments above the current approved design level. The results of the feasibility assessment indicated that with strict water management procedures additional embankment lifts are possible.

Further work in future phases of the design review will involve:

- Prior to raising TD1 from RL272 m to RL278 m, additional CPT investigations to confirm the tailings strength parameters in key sections of the facility.
- Further detailed hydraulic analyses for the dam break study to examine flow paths towards the plant in particular.
- A detailed design for raising of the TSF in accordance with the new NSW Dam Safety act.

It is noted that the majority of design work for future increasing the TSF storage capacity by adding additional lifts was completed as part of the MOD9 application.

8.5 Rehabilitation Forward Program

The Forward Program describes the planned rehabilitation activities during the "Forward Program Period" which includes the period from 1 July 2024 to 30 June 2026.

Table 22 summarises the rehabilitation research that is intended to be completed during the Forward Program Period.

Table 22
Rehabilitation Planning Schedule

Year	Studies
2024	Continue to undertake studies to inform closure plans including preparation of a Post Closure Water Management Strategy (aim complete 2025/2026) and concept design of TSF cover and landform (completed by end 2024). Development of program for seed collection/storage and investigation into propagation methods (e.g. on-site nursery or contractor) (Aim complete 25/26)
2025	Commence Landform Evolution Modelling once the final TSF cover has been designed. Continue to undertake studies to inform closure plans including the Post Closure Water Management Strategy. TSF Closure Materials Balance (Aim complete 25/26) Continue development of seed collection/storage program and propagation methods (Aim complete 25/26)
2026	Continue to undertake studies to inform closure plans including the Post Closure Water Management Strategy. Continue TSF Closure Materials Balance (Aim complete 25/26) Continue development of seed collection/storage program and propagation methods (Aim complete 25/26)

8.6 Rehabilitation Risk Assessment

In accordance with Clause 7 of Schedule 8A the *Mining Regulations 2016*, a Rehabilitation Risk Assessment for the Mine was prepared during December 2021. Further information on the outcomes of the Rehabilitation Risk Assessment are presented as part of the *Rehabilitation Management Plan* (RWC, 2023).

The current version of the Rehabilitation Risk Assessment is Version 4.0.

No hazards or incidences were identified or occurred within the Mine Site during the reporting period that required further review of the Rehabilitation Risk Assessment.

9. Community

9.1 Environmental Complaints

No complaints were received during this reporting period.

9.2 Community Liaison

As a major employer to the local community, Tritton Resources has continued to provide employment to the local community either directly, via engagement of local sub-contractors from Nyngan, Hermidale and Girilambone townships or by prioritising sourcing of required materials from local businesses.

Statistical information gathered by Tritton Resources recorded a total workforce of 364 staff at year end 2023. Of the 364 staff, 76% are residential and contribute to the community of Nyngan whist 24% are staff that travel from elsewhere and reside locally during their rostered working period. Tritton Mines has been actively working towards increasing "local region" employment and believes this is one of the best ways the business can contribute to the community. Employment within the local region has increased from 50% in 2012 to 76% currently and Tritton Mines is now contributing more than 49 Million dollars annually in salary and wages to the local regions of Nyngan, Hermidale and Girilambone.

Tritton Resources is dedicated to supporting the local community by working with local business and Australian owned suppliers where possible. Currently 99% of Tritton Resources suppliers are Australian businesses, and 50% of them are based in NSW. This equates to Tritton Resources spending $10.1 Million with local and regional suppliers and $77.9 Million with NSW suppliers.

During the reporting period, a total of $62,336 was allocated by Tritton Resources supported the following community groups and causes.

- Annual Nyngan Ag Expo.
- Duck Creek Picnic Races.
- The Nyngan Bowling club's June Long Weekend Triples.
- The Outback Science and Engineering Challenge run by The University of Newcastle, Australia at Cobar.
- GROW Nyngan Day hosted by Nyngan Community Hub and the Royal Flying Doctor Service NSW / ACT.
- Nyngan Carp Muster, organised by the Nyngan RSL fishing club, aimed at reducing the number of carp damaging the Bogan River and impacting other fish in our waterways.
- Bogan Shire Council's Australia Day colouring-in competition with prizes and goodie bags.

The Tritton Community Consultative Committee (CCC) was established with the local Council, Land Councils and local community representatives to provide updates and information on Tritton Mines operation.

Tritton CCC meetings were held in February, May, September and December during 2024 and were attended by Tritton's General Manager and Environmental Superintendent. Meeting minutes for the CCC meetings are available on the Tritton website.

10. Independent Audit

The most recent independent audit of the Mine Site was undertaken in 2024 in accordance with Condition 8 of Schedule 2 of DA41/98 and covered the period from 10 December 2021 to 10 October 2024. The audit identified a total of 2 non-compliances and 15 administrative non-compliances relating to DA41/98. Furthermore, 1 non-compliance and 8 administrative non-compliance were identified relating to ML1544.

A response from DPHI was received 18 February 2025 (Planning Ref:DA41/98-PA-25) acknowledging the identified non-compliances and confirming that no further enforcement actions were proposed at the time.

Table 23 provides a summary of the matters identified and the status of Tritton Resources response to the identified issue.

The next Independent Environmental Audit will occur in late 2027.

Table 23
Summary of Non-Compliances and Corrective Actions

Source	No.	Observation	Recommendation	Risk Level	Response
Project Approval DA 41/98	2(a)	The EPL for the mine (Conditions O4.4, O4.5 and O4.6) specify the requirements for bulk fuel / liquids storage. The EPA, during their inspection in early 2023 reported that the bulk diesel facility and the storage of some bulk liquids within existing bunds, did not comply with all of the requirements of AS1940 and therefore did not satisfy all of the requirements specified in the EPL. The EPA issued a Post Inspection Letter to Tritton on 21 February 2023 describing the deficiencies and requesting rectification of the issues identified. Tritton commissioned an independent review of the fuel storage area, provided that report to the EPA and implemented the recommendations from that study. During the site inspection 200 litre drums and 1000 litre IBCs were observed that were stored in unbunded areas or stacked on the edge of bunded areas where leaks from those containers would not be contained.	Undertake a detailed survey of all fuel, oil, grease, chemical and liquid waste (including oils and greases) storage areas to determine the storage needs. Provide sufficient bunded storage that complies with the requirements of AS/NZ 1940.	**Medium**	Tritton will conduct a site wide review of all hydrocarbon and chemical storage. Where inadequacies of storage bunding are identified, a further action plan will be developed to upgrade bunding to comply with AS/NZ 1940.
Project Approval DA 41/98	3J	Training materials covering elements of the approval were reviewed. Records of training from the audit period were sighted. It is noted that housekeeping, and in particular the storage of hydrocarbons and wastes do not meet minimum industry standards (refer to compliance findings below). It was also noted that hydrocarbon spills in (at least) the laydown area were of a size that would potentially trigger incident reporting to the EPA and DPHI.	Prepare detailed guidelines for the storage of hydrocarbons, chemicals and wastes, including housekeeping and maintenance requirements. Tritton should revise the PRIMP to provide clear guidance for the classification, management and reporting of hydrocarbon spills and leaks and ensure that those requirements are reflected in the EMS. Provide training for all operational personnel in the management of those materials.	**Administrative Non-Compliance**	Tritton has an update of the Hydrocarbon and Chemical Management Plan is in progress. Outcomes from this audit will be used to further inform the update. Tritton last reviewed the PIRMP in Feb 2024, this is scheduled for review and this review will consider this audit recommendation. Tritton will develop a new training package for chemical and hydrocarbon management and commence training operational personnel.
Project Approval DA 41/98	4	No evidence was available to verify the submission of the Rehabilitation Management Plan to either Council or DPHI.	Provide a copy of the Rehabilitation Management Plan to DPHI and Council.	**Administrative Non-Compliance**	Tritton would like it noted that it has the current RMPs available on it's public website, however will send a copy to DPHI and Bogan Shire Council.
Project Approval DA 41/98	5	The Tritton Copper Mine, at the time of this IEA has a small environmental team including the Environmental Superintendent and a Senior Environmental advisor. The personnel in those positions had appropriate qualifications and experience. However, those personnel are shared across four projects and spend between 20% – 25% of their time working on the Tritton Mine. During the audit period, there were periods during which the positions of Environmental Superintendent and Senior Environmental Advisor were vacant, including a period of at least three months when both of those positions were vacant. It is the Auditor's opinion, based on the environmental resourcing available at the mine throughout the audit period, observations made during the audit site inspections and review of environmental documents and records, that the environmental and compliance performance of the mine has been impacted by the lack of environmental resources. Further the current resourcing level (four part time personnel) is insufficient to fulfil all of the requirements of the Approval and other statutory requirements.	Undertake an urgent review of environmental resource requirements for the operation to ensure that sufficient resources are available to keep key documentation up to date, undertake regular (detailed) environmental inspections, provide environmental training and to advise managers on environmental performance requirements and compliance.	**Medium**	Tritton to complete a review environmental resourcing

Table 23 (Cont'd)
Summary of Non-Compliances and Corrective Actions

Source	No.	Observation	Recommendation	Risk Level	Response
Project Approval DA 41/98	6	An Environmental Management Strategy was being prepared at the time of this IEA. The 2022 Independent Environmental Audit assessment of this Approval Condition referenced a Framework Environmental Management Plan (September 2012). The Auditor understands that the Framework EMP is no longer in use and that the EMS that is being prepared is to meet the requirements of Condition 6.	Finalise the Environmental Management Strategy and ensure that it meets all of the requirements of Condition 6 of the Approval	**Administrative Non-Compliance**	Tritton is current progressing the development of the Environmental Management Strategy, our new framework document for our environmental management.
Project Approval DA 41/98	6 (II)	The Flora and Fauna Management Plan does not contain a Contingency Strategy.	Finalise the Biodiversity & Land Management Plan and ensure that it meets all of the requirements of the Approval including the inclusion of a Contingency Strategy and that, that strategy is prepared in consultation with BCS.	**Administrative Non-Compliance**	Tritton is presently developing a new Biodiversity & Land Management Plan that will address this condition. Once internal review completed, there will be consultation with Biodiversity, Conservation & Science to meet this recommendation.
Project Approval DA 41/98	6 (IV)	The noise criteria specified in the current Noise and Vibration Management Plan are not consistent with those specified in Condition 38.	Review and revise the Noise and Vibration Management Plan / strategy in consultation with TfNSW and Council.	**Administrative Non-Compliance**	Tritton has scheduled to update the Noise and Vibration Management Plan in February 2025. Once internal review completed, there will be consultation with TfNSW and Bogan Shire Council to meet this recommendation.
Project Approval DA 41/98	6 (V)	Dust Management Plan does not define dust trigger levels (as required under Condition 48) or provide a contingency plan should exceedances in the dust trigger levels occur.	Review and revise the Dust Management Plan / strategy in consultation with the EPA.	**Administrative Non-Compliance**	Tritton has scheduled to develop a new Air Quality & Greenhouse Gas Management Plan that will address this condition. Once internal review completed, there will be consultation with EPA to meet this recommendation.
Project Approval DA 41/98	6A	The annual Environmental Management Report for each reporting year of the audit period were reviewed. Each of the annual reports provided the information required by this Condition. The 2023 Annual Review was completed is August 2024, outside of the required reporting date.	Ensure that future Annual Reviews are completed and submitted to DPHI before the end of March unless otherwise approved by DPHI.	**Administrative Non-Compliance**	Tritton notes the recommendation
Project Approval DA 41/98	6B	A review of management plans was not undertaken within three months of the 2021 Independent Environmental Audit or the approval of MOD 8 in June 2022.A plan for the review and revision of all management plans has been prepared and is being implemented.	Ensure that all management plans are reviewed and if necessary revised in accordance with the Management Plan Update Schedule prepared in October 2024.	**Administrative Non-Compliance**	Tritton has revised the Management Plan Update Schedule due to some delays, however remains committed to having all management plan updates completed by April 2025. Any regulator consultations, reviews or approvals will follow this schedule.
Project Approval DA 41/98	8	The 2021 Independent Environmental Audit was commenced on 9 December 2021. A report was prepared and submitted to DPE on 31 March 2022. Following the review of the report by DPE, amendments to the report were requested (by DPE) and a final version issued on 8 August 2022. The first version of the 2021 IEA report was issued outside of the reporting period required by the Approval.	Ensure that all future audits are undertaken in accordance with the timings specified in the Approval.	**Administrative Non-Compliance**	Tritton notes the recommendation and comments further that this is captured in annual operational planning.
Project Approval DA 41/98	8-1	All recommendations and subsequent commitments made by Tritton have not been actioned. For example, in response to the lack of access to a water cart for dust suppression works during the last IEA, Tritton committed to developing a Trigger Action Response Plan (TARP) to address this issue. Table 7 in the Draft Dust Management Plan describes the TARPs developed. However, the do not cover the breakdown or unplanned maintenance of water carts	Review all recommendations from the 2021 Independent Environmental Audit and ensure that they are actioned and closed out.	**Administrative Non- Compliance**	Tritton to review 2021 IEA to identify outstanding actions and close them out.

Table 23 (Cont'd)
Summary of Non-Compliances and Corrective Actions

Source	No.	Observation	Recommendation	Risk Level	Response
Project Approval DA 41/98	13F (c)	The review of the plan from 2021 has not been completed.	Ensure that the revised Water Management Plan is submitted to DPHI for review and approval	**Administrative Non- Compliance**	Tritton is presently undertaking a major update of the Water Management Plan. Once internal review completed, it will be submitted to DPHI for review and approval.
Project Approval DA 41/98	23	The 2018 IEA raised a Non-Compliance against this condition as the document did not address all requirements of this Condition and for lack of evidence of consultation with the RR and EPA. In addition, an approval from DPE (Secretary) was not sighted. It is noted that the 2018 IEA reviewed Rev4a though the OMM was updated to Rev5 in June 2018 which was not cited in the 2018 IEA. It is noted that the Aeris Resources Response to Audit Recommendations offered to revise the TSF OMM to address the Non-Compliance. The updated version Rev6 was sighted in the 2019 IEA, however specific requirements on chemicals and reagents were not addressed in the updated version. Evidence of consultation with RR and EPA was also not sighted.	Revise the Tailings Dam Management and Monitoring Plan, consult with the Resource Regulator and the EPA and ensure that the plan is submitted to DPHI for review and approval.	**Administrative Non- Compliance**	Tritton is presently undertaking a major update the Waste Management Plan, which will contain management measures and monitoring for Tailings. Once internal review completed, it will be submitted to DPHI for review and approval.
Project Approval DA 41/98	24	A copy of the Management and Monitoring Plan was not available to the Auditor. Compliance with this Condition could not be verified	Ensure that the requirements of the Tailings Dam Management and Monitoring Plan are fully implemented.	**Administrative Non- Compliance**	Tritton notes the recommendation. The Waste Management Plan will contain Tailings management and monitoring for implementation.
Project Approval DA 41/98	45	Section 8 of the Draft Heritage Management Plan describes the measures to be implemented to protect heritage items and sites.No evidence was available to verify that these measures were prepared in consultation with the nominated parties.	Finalise the preparation of the Heritage Management Plan and ensure that Heritage NSW and all relevant Aboriginal parties are consulted.	**Administrative Non- Compliance**	Tritton is finalising the Heritage Management Plan and once internal review is completed, it will go for external consultation including Heritage NSW and Aboriginal stakeholders.
Project Approval DA 41/98	50	A Blasting protocol has not been prepared.	Prepare a blasting protocol for all blasting (including sub-surface blasting).	**Administrative Non- Compliance**	Tritton does not agree with the 2024 IEA recommendation as we do not believe this has been triggered as Tritton is an underground mine only. The 2021 IEA noted this was compliant as untriggered.
Standard Mining Lease Conditions	D3-15(1)	The Initial Period ended on 1 August 2022. The first version of the Rehabilitation Management Plan (Rev 1.1) was, according to the revision table in the plan, published (and submitted to the RR) on 15 June 2023. The completion of the RMP occurred after the end of the Initial Period.	Ensure all future versions of the Rehabilitation Documents are prepared and/or submitted to the RR in accordance with the approved timelines.	**Administrative Non- Compliance**	Tritton notes the recommendation
Standard Mining Lease Conditions		The Initial Period ended on 1 August 2022. The RR in their email of 1 December 2022 stating that the RR would not grant an extension of time for the submission of the Rehabilitation Objectives, Forward Program or Spatial Data. The Submission of the completion criteria statement occurred after the end of the Initial Period.	Ensure all future versions of the Rehabilitation Documents are prepared and/or submitted to the RR in accordance with the approved timelines.	**Administrative Non- Compliance**	Tritton notes the recommendation
Standard Mining Lease Conditions		The Initial Period ended on 1 August 2022. The RR in their email of 1 December 2022 stating that the RR would not grant an extension of time for the submission of the Rehabilitation Objectives, Forward Program or Spatial Data. The Submission of the first forward program occurred after the end of the Initial Period.	Ensure all future versions of the Rehabilitation Documents are prepared and/or submitted to the RR in accordance with the approved timelines.	**Administrative Non- Compliance**	Tritton notes the recommendation

Table 23 (Cont'd)
Summary of Non-Compliances and Corrective Actions

Source	No.	Observation	Recommendation	Risk Level	Response
Standard Mining Lease Conditions	D3-15(3)	The last version of the completion criteria statement is produced in the Rehabilitation Management Plan. No evidence was available to verify that the completion criteria statement was submitted with the Forward Program.	Ensure all future revisions of the completion criteria statement are submitted to the RR in conjunction with the Forward Program.	**Administrative Non- Compliance**	Tritton notes the recommendation
Standard Mining Lease Conditions	D3- 16	The RR issued a formal warning to Tritton following its investigation relating to the failure to make the Remediation Management Plan Publicly available.	Ensure all future revisions of all remediation documentation required is made available on the project website within the timelines specified	**Administrative Non- Compliance**	Tritton notes the recommendation
Standard Mining Lease Conditions	D4- 18	During this audit period a number of submission dates for key documents was missed. Those non-compliances were not reported to the RR. It is noted that Tritton responded formally to the RR's commencement of investigation, however that response was in relation to advise provided by the RR.	Track compliance against the Mining Lease Conditions and proactively report any non-compliances to the RR within seven days of becoming aware of those non- compliances.	**Administrative Non- Compliance**	Tritton notes the recommendation
Standard Mining Lease Conditions	D4- 19	Clause 19 in Schedule 8A requires the lease holder to Nominate a Contact Person (NCP) with whom the RR can communicate with in relation to the mining lease(s) for the purposes of the Mining Act 1992.According to RR records, the Tritton Copper Mine failed to provide details of the nominated contact.	Ensure that the RR is advised of any future changes in the nominated contact person.	**Administrative Non- Compliance**	Tritton notes the recommendation
Mining Lease 1544	28	Mine Closure Plan has not been revised/updated as per gap analysis. The 2018 and 2021 IEAs raised non compliances relating to the content of the plan and need to update the plan.	This requirement has now been superseded by the 2022 changes to the Mining Act.	**Administrative Non- Compliance**	Mine Closure Plan has been replaced by Rehabilitation Management Plans, however these do not cover Tailing Management. Tritton advises that management of Tailings is now covered by the Waste Management Plan (being updated) and the Tailings Dam Operations & Maintenance Manual
Mining Lease 1544	31	The Tritton Copper Mine, at the time of this IEA has a small environmental team including the Environmental Superintendent and a Senior Environmental advisor. The personnel in those positions had appropriate qualifications and experience. However, those personnel are shared across four projects and spend between 20% – 25% of their time working on the Tritton Mine. During the audit period, there were periods during which the positions of Environmental Superintendent and Senior Environmental Advisor were vacant, including a period of at least three months when both of those positions were vacant. It is the Auditor's opinion, based on the environmental resourcing available at the mine throughout the audit period, observations made during the audit site inspections and review of environmental documents and records, that the environmental and compliance performance of the mine has been impacted by the lack of environmental resources. Further the current resourcing level (four part time personnel) is insufficient to fulfil all of the requirements of the Approval and other statutory requirements.	Undertake an urgent review of environmental resource requirements for the operation to ensure that sufficient resources are available to keep key documentation up to date, undertake regular (detailed) environmental inspections, provide environmental training and to advise managers on environmental performance requirements and compliance.	**Medium**	Refer to response for Condition 5 Project Approval DA 41/98

11. Incidents and Non-compliances during the Reporting Period

Development Consent

Non-compliances under DA41/98 were identified during the 2024 reporting period, and are addressed in Section 10 of this Annual Review. Additional non-compliances not identified in Section 10 are described below.

Condition 2(a)

Condition 2(a) requires that the Company comply with all other approvals and licences required for the operation of the Mine. Non-compliances with EPL 4511 and ML 1544 were identified during the reporting period (**Table 23**).

Condition 7A

Condition 7A requires that the Department is notified within seven days of becoming aware of a non-compliance.

Tritton did not notify the Department within 7 days of becoming aware of any non-compliance identified within the Independent Audit for the Mine during the reporting period.

Condition 8A(a)(iii)

Condition 8A(a)(iii) requires all approved strategies, plans and programs required under DA41/98 to be made publicly available on the website by 2 September 2022.

Tritton acknowledges that not all the documents required under DA41/98 are currently publicly available. Notwithstanding the above, Tritton is in the process of reviewing the majority of the environmental management plans for the Mine and intends to submit the revised plans to the Department for approval during the next reporting period.

12. Activities Proposed in the Next Annual Review Period

The following mining activities are proposed to occur during the next reporting period:

- Continuation of underground mining and ore processing activities;
- Continued monitoring of surface water, groundwater, air quality and noise emissions;
- Rehabilitation planning as described in the Forward Program.
- Review of all water monitoring infrastructure to ensure compliance with relevant approvals and licences.

Appendices

Appendix 1 Erosion Cross-Section Graphs

Appendix 2 2024 Surface Water Quality Results

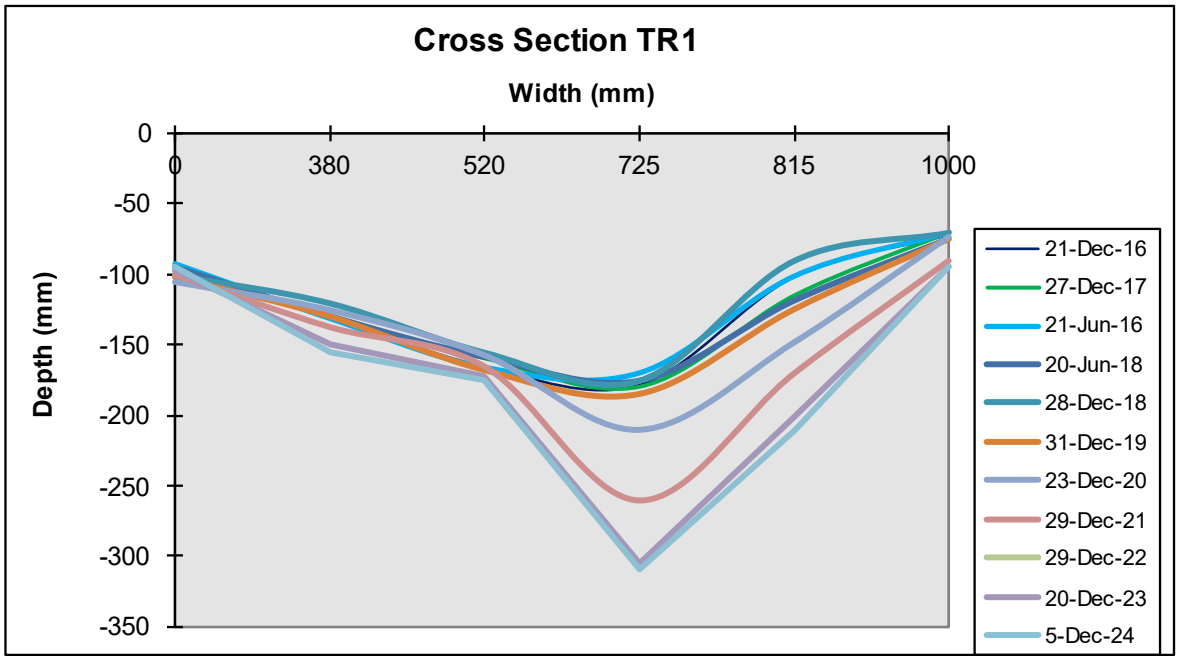
Appendix 3 2024 Groundwater Quality Result

Appendix 1

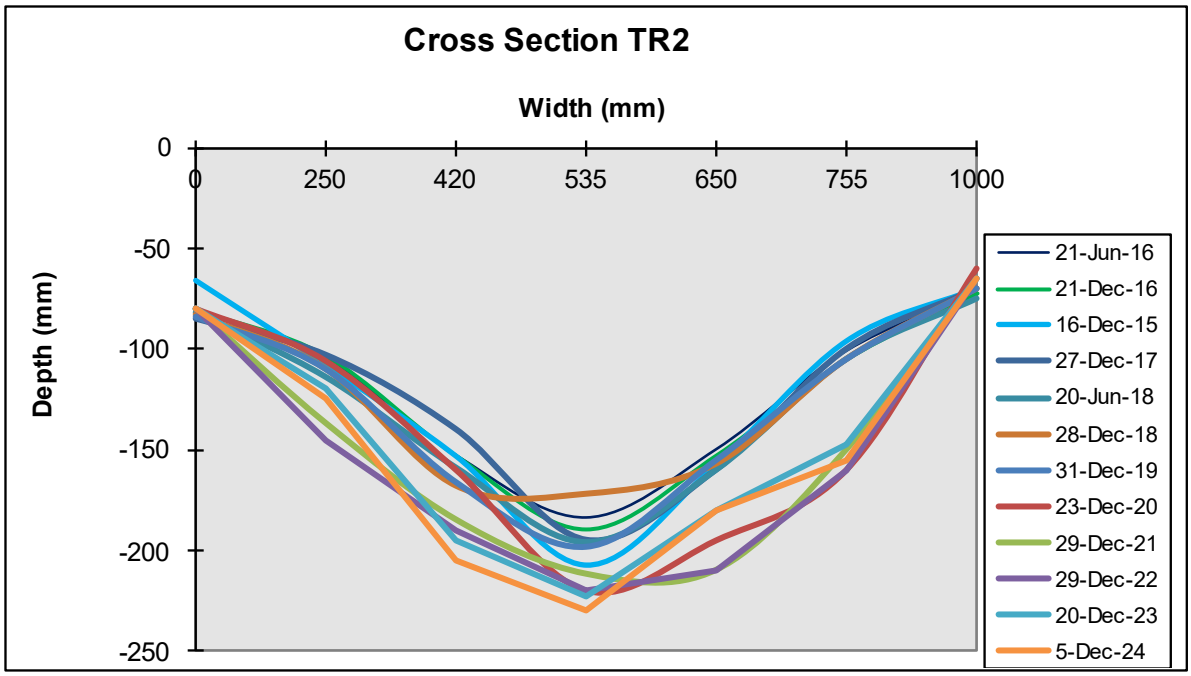
Erosion Cross-Section Graphs

(Total No. of pages including blank pages = 3)

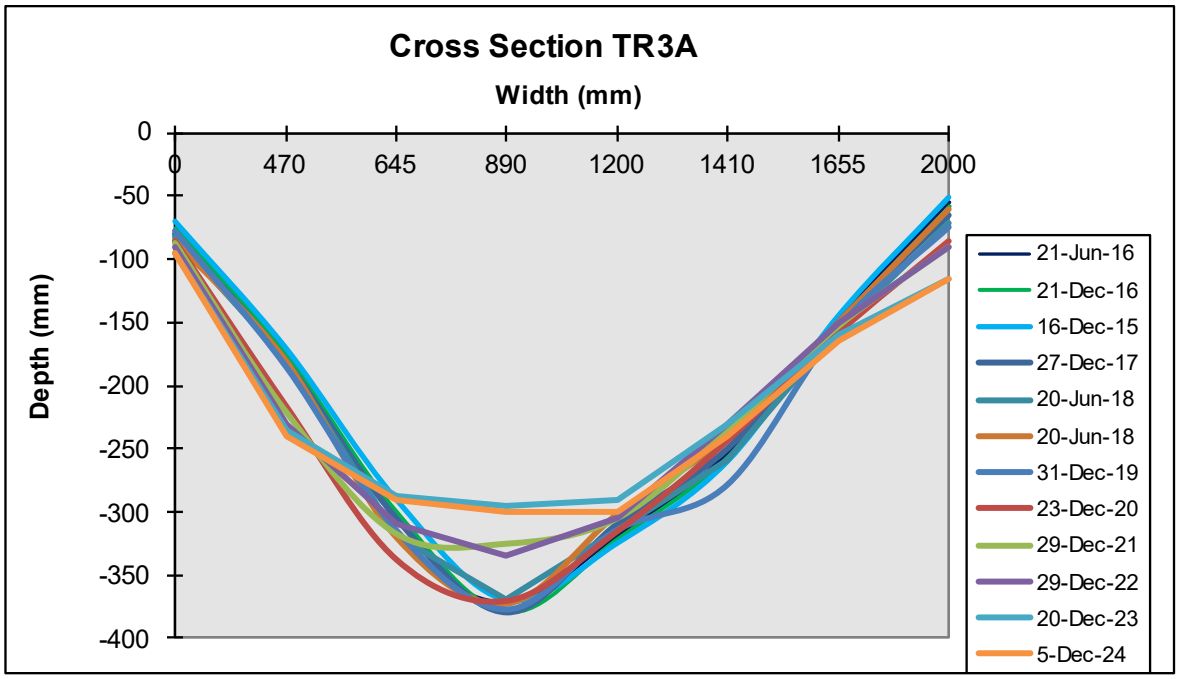
Graph 1 EROSTR001



Graph 2 EROSTR002



Graph 3 **EROSTR003A**



Appendix 2

2024 Surface Water Quality Results

(Total No. of pages including blank pages = 3)

Table A1 2024 Surface Water Quality Results (mg/L)

Date	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chloride	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Sulfate as SO4	Vanadium	Zinc	pH	Conductivity	Total Dissolved Solids @180°C
Stock Watering Triggers *	0.5	-	-	0.01	1000	-	1	1	1	N/A	0.1	-	N/A	0.002	1	-	-	1000	-	20	6 - 9	6000	4000
Irrigation Triggers #	2	-	0.5	0.05	-	350	1	0.1	5	10	5	-	10	0.002	2	-	230	-	0.5	5	6 - 9	6000	-
TSW01																							
9/03/2024			0.001			1110.000						100.000				37.000	720.000	**1690.000**			**3.890**	**6630.000**	**4870.000**
12/06/2024			0.001			526.000						101.000				24.000	379.000	**1510.000**			**3.160**	4220.000	3480.000
21/06/2024	0.001	0.064	0.001	0.000		113.000	0.002	0.007	0.223	1.610	0.003	18.000	0.081	0.000	0.004	9.000	79.000	196.000	0.010	0.094	6.720	916.000	640.000
3/07/2024	0.005	0.083	0.001	**0.016**		773.000	0.007	0.280	**3.010**	9.050	0.025	97.000	1.780	0.000	0.057	35.000	514.000	**2070.000**	0.010	3.690	**3.200**	**6040.000**	**4590.000**
Average	**0.003**	**0.074**	**0.001**	**0.008**	**n/a**	**630.500**	**0.005**	**0.144**	**1.617**	**5.330**	**0.014**	**79.000**	**0.931**	**0.000**	**0.031**	**26.250**	**423.000**	**1366.500**	**0.010**	**1.892**	**4.243**	**4451.500**	**3395.000**
TSW02																							
2/01/2024			0.010			726.000						1200.000				20.000	505.000	6950.000			**2.580**	**10800.000**	**13000.000**
5/02/2024			0.006			980.000						652.000				28.000	583.000	4800.000			**2.780**	**9700.000**	**10700.000**
7/02/2024	0.003	0.074	0.001	0.008		1270.000	0.001	0.338	1.120	3.380	0.018	82.000	1.550	0.000	0.063	54.000	714.000	2110.000	0.010	2.160	**5.320**	**6510.000**	**5070.000**
8/02/2024			0.001			735.000						68.000				44.000	489.000	1900.000			**3.270**	5530.000	**4090.000**
10/02/2024			0.001			1380.000						89.000				67.000	954.000	2540.000			**3.130**	**8380.000**	**5610.000**
9/03/2024			0.001			880.000						63.000				44.000	572.000	2250.000			**3.230**	**6470.000**	**4950.000**
1/04/2024	0.013	0.004	0.011	**0.273**	678.000	753.000	0.369	**8.570**	62.200	99.800	0.008	1900.000	41.700	0.000	**1.160**	19.000	497.000	9660.000	0.010	74.100	**2.780**	**13200.000**	**18000.000**
11/04/2024			0.002			1570.000						148.000				59.000	992.000	2890.000			**3.190**	**9030.000**	**6730.000**
12/06/2024			0.002			237.000						93.000				10.000	157.000	1580.000			**3.470**	3160.000	3110.000
21/06/2024	0.003	0.053	0.001	**0.038**		1180.000	0.007	**1.050**	**5.790**	22.600	0.054	246.000	6.330	0.000	0.210	44.000	667.000	2690.000	0.010	**8.340**	**4.470**	**7470.000**	**6330.000**
3/07/2024	0.008	0.007	0.007	**0.122**		462.000	0.188	**3.420**	28.400	32.400	0.037	748.000	16.500	0.000	0.569	11.000	284.000	5240.000	0.010	29.200	**2.790**	**8430.000**	**8730.000**
Average	**0.007**	**0.035**	**0.004**	**0.110**	**678.000**	**924.818**	**0.141**	**3.345**	**24.378**	**39.545**	**0.029**	**480.818**	**16.520**	**0.000**	**0.501**	**36.364**	**583.091**	**3873.636**	**0.010**	**28.450**	**3.365**	**8061.818**	**7847.273**
TSW03																							
2/01/2024			0.001			1280.000						2890.000				82.000	868.000	17400.000			**3.700**	**18400.000**	**27400.000**
12/06/2024			0.001			1160.000						2000.000				52.000	879.000	11000.000			**3.870**	**15100.000**	**21300.000**
Average	**n/a**	**n/a**	**0.001**	**n/a**	**n/a**	**1220.000**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**2445.000**	**n/a**	**n/a**	**n/a**	**67.000**	**873.500**	**14200.000**	**n/a**	**n/a**	**3.785**	**16750.000**	**24350.000**
TSW04																							
9/03/2024			0.001			216.000						32.000				11.000	133.000	404.000			**3.710**	1550.000	988.000
12/06/2024			0.001			385.000						77.000				18.000	282.000	842.000			6.220	2850.000	2280.000
21/06/2024	0.001	0.058	0.001	0.000		45.000	0.001	0.003	0.022	1.150	0.002	12.000	0.044	0.000	0.002	5.000	34.000	20.000	0.010	0.028	7.250	386.000	394.000
3/07/2024	0.001	0.076	0.001	0.001		139.000	0.001	0.028	0.020	0.050	0.001	30.000	0.236	0.000	0.007	9.000	92.000	248.000	0.010	0.293	7.020	1110.000	702.000
Average	**0.001**	**0.067**	**0.001**	**0.001**	**n/a**	**196.250**	**0.001**	**0.016**	**0.021**	**0.600**	**0.002**	**37.750**	**0.140**	**0.000**	**0.005**	**10.750**	**135.250**	**378.500**	**0.010**	**0.161**	**6.050**	**1474.000**	**1091.000**
TSW08																							
2/01/2024			0.001			59.000						22.000				6.000	46.000	36.000			7.820	527.000	309.000
5/02/2024			0.001			138.000						33.000				5.000	45.000	31.000			7.550	577.000	288.000
7/02/2024	0.001	0.043	0.001	0.000		67.000	0.001	0.001	0.002	0.050	0.001	18.000	0.001	0.000	0.002	6.000	56.000	31.000	0.010	0.005	6.960	536.000	329.000
8/02/2024			0.001			50.000						13.000				4.000	44.000	28.000			6.790	370.000	190.000
10/02/2024			0.001			33.000						23.000				10.000	27.000	109.000			**5.240**	450.000	286.000
9/03/2024			0.001			42.000						19.000				7.000	33.000	96.000			6.570	443.000	378.000
1/04/2024	0.001	0.118	0.001	0.000	41.000	102.000	0.001	0.003	0.014	0.310	0.001	31.000	0.103	0.000	0.002	9.000	69.000	64.000	0.010	0.008	7.480	746.000	520.000
11/04/2024			0.001			87.000						22.000				6.000	52.000	33.000			7.180	583.000	398.000
12/06/2024			0.001			33.000						15.000				7.000	32.000	15.000			7.440	350.000	252.000
21/06/2024	0.001	0.060	0.001	0.000		31.000	0.001	0.001	0.029	1.360	0.001	10.000	0.022	0.000	0.002	6.000	26.000	15.000	0.010	0.040	7.090	286.000	253.000
3/07/2024	0.003	0.048	0.001	0.000		21.000	0.001	0.001	0.012	0.260	0.001	11.000	0.004	0.000	0.001	5.000	26.000	6.000	0.010	0.005	7.490	200.000	161.000
Average	**0.002**	**0.067**	**0.001**	**0.000**	**41.000**	**60.273**	**0.001**	**0.002**	**0.014**	**0.495**	**0.001**	**19.727**	**0.033**	**0.000**	**0.002**	**6.455**	**41.455**	**42.182**	**0.010**	**0.015**	**7.055**	**460.727**	**305.818**

Table A1 2024 Surface Water Quality Results (mg/L) (Cont'd)

Date	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chloride	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Sulfate as SO4	Vanadium	Zinc	pH	Conductivity	Total Dissolved Solids @180°C
Stock Watering Triggers *	0.5	-	-	0.01	1000	-	1	1	1	N/A	0.1	-	N/A	0.002	1	-	-	1000	-	20	6 - 9	6000	4000
Irrigation Triggers #	2	-	0.5	0.05	-	350	1	0.1	5	10	5	-	10	0.002	2	-	230	-	0.5	5	6 - 9	6000	-
TSW09																							
2/01/2024			0.001			1860.000						32.000				67.000	720.000	2530.000			6.020	**8020.000**	**6850.000**
5/02/2024			0.001			1750.000						93.000				43.000	524.000	2340.000			**4.530**	**7200.000**	**5900.000**
7/02/2024	0.013	0.096	0.001	0.000		1360.000	0.001	0.002	0.133	0.050	0.001	24.000	0.030	0.000	0.002	57.000	709.000	1880.000	0.010	0.027	7.510	**6280.000**	**4640.000**
8/02/2024			0.001			640.000						93.000				28.000	432.000	1240.000			**3.300**	4440.000	3140.000
10/02/2024			0.001			1220.000						45.000				46.000	531.000	1250.000			**4.350**	5090.000	3700.000
9/03/2024			0.001			1410.000						49.000				49.000	763.000	2110.000			**4.760**	**7180.000**	**5470.000**
1/04/2024	0.004	0.097	0.001	0.000	913.000	1700.000	0.001	0.002	0.023	0.050	0.001	15.000	0.034	0.000	0.001	29.000	572.000	1900.000	0.010	0.022	6.500	**6370.000**	**5320.000**
11/06/2024			0.001			745.000						45.000				32.000	474.000	1220.000			**3.860**	4750.000	3170.000
12/06/2024			0.001			1460.000						70.000				65.000	783.000	2310.000			**5.700**	**7050.000**	**5910.000**
21/06/2024	0.007	0.057	0.001	0.000		1520.000	0.003	0.003	0.010	0.820	0.006	30.000	0.041	0.000	0.002	48.000	699.000	1910.000	0.010	0.040	**5.750**	**6760.000**	**5020.000**
3/07/2024	0.009	0.115	0.001	0.002		2260.000	0.001	0.030	0.646	0.060	0.002	34.000	0.233	0.000	0.005	82.000	767.000	2230.000	0.010	0.197	6.130	**8680.000**	**6840.000**
Average	**0.008**	**0.091**	**0.001**	**0.001**	**913.000**	**1447.727**	**0.002**	**0.009**	**0.203**	**0.245**	**0.003**	**48.182**	**0.085**	**0.000**	**0.003**	**49.636**	**634.000**	**1901.818**	**0.010**	**0.072**	**5.310**	**6529.091**	**5087.273**
TSW10																							
12/06/2024			0.001			3260.000						509.000				44.000	2260.000	**3160.000**			7.700	**14200.000**	**12100.000**
21/06/2024	0.006	0.046	0.001	0.005		2230.000	0.011	0.059	0.558	7.460	0.035	262.000	0.851	0.000	0.018	29.000	1200.000	**1630.000**	0.010	0.566	7.860	**9280.000**	**6410.000**
3/07/2024	0.001	0.045	0.001	0.009		2980.000	0.001	0.130	0.183	0.050	0.001	471.000	1.790	0.000	0.020	48.000	1910.000	**2790.000**	0.010	0.349	7.760	**13300.000**	**9720.000**
18/10/2024			0.001			2320.000						365.000				40.000	1570.000	**2260.000**			7.540	**11000.000**	**7970.000**
Average	**0.004**	**0.046**	**0.001**	**0.007**	**n/a**	**2697.500**	**0.006**	**0.095**	**0.371**	**3.755**	**0.018**	**401.750**	**1.321**	**0.000**	**0.019**	**40.250**	**1735.000**	**2460.000**	**0.010**	**0.458**	**7.715**	**11945.000**	**9050.000**
TSW11																							
No data																							
Average	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**

* ANSECC Stock water guidelines for cattle (Primary)

\# ANZECC Irrigation and general use guidelines for wheat (Secondary)

N/A – Not sufficiently toxic to stock

Appendix 3

2024 Groundwater Quality Results

(Total No. of pages including blank pages = 4)

Table A2 2024 Groundwater Quality Result (mg/L)

Date	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chloride	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Sulfate as SO4	Vanadium	Zinc	pH	Conductivity	Total Dissolved Solids @180°C
Stock Watering Trigger *	0.5	-	-	0.01	1000	-	1	1	1	N/A	0.1	-	N/A	0.002	1	-	-	1000	-	20	6 - 9	6000	4000
Irrigation Triggers #	2	-	0.5	0.05	-	350	1	0.1	5	10	5	-	10	0.002	2	-	230	-	0.5	5	6 - 9	6000	-
PZH001																							
19/01/2024	0.002	0.015	0.001	0.001	138.000	3800.000	0.001	0.006	0.019	0.070	0.001	520.000	0.004	0.000	0.005	9.000	2510.000	2200.000	0.010	0.114	7.625	7255.965	9382.000
11/04/2024			0.001		157.000	3460.000						515.000				10.000	2760.000	2390.000			7.560	14100.000	9930.000
11/07/2024			0.001		143.000	3810.000						526.000				10.000	2560.000	2300.000			7.390	14045.000	9524.500
24/10/2024			0.001		127.000	3530.000						520.000				10.000	2490.000	2320.000			7.870	14042.500	9768.500
Average	**0.002**	**0.015**	**0.001**	**0.001**	**141.250**	**3650.000**	**0.001**	**0.006**	**0.019**	**0.070**	**0.001**	**520.250**	**0.004**	**0.000**	**0.005**	**9.750**	**2580.000**	**2302.500**	**0.010**	**0.114**	**7.611**	**12360.866**	**9651.250**
PZH002																							
19/01/2024	0.001	0.015	0.001	0.000	143.000	3080.000	0.001	0.001	0.005	0.050	0.001	399.000	0.036	0.000	0.002	13.000	2340.000	1950.000	0.010	0.026	7.660	6405.265	8241.000
11/04/2024			0.001		192.000	2910.000						413.000				15.000	2670.000	2070.000			7.675	12400.000	8640.000
11/07/2024			0.001		166.000	3180.000						401.000				14.000	2310.000	2070.000			7.310	12189.000	8319.500
24/10/2024			0.001		146.000	3100.000						400.000				15.000	2290.000	2020.000			7.425	12377.500	8622.500
Average	**0.001**	**0.015**	**0.001**	**0.000**	**161.750**	**3067.500**	**0.001**	**0.001**	**0.005**	**0.050**	**0.001**	**403.250**	**0.036**	**0.000**	**0.002**	**14.250**	**2402.500**	**2027.500**	**0.010**	**0.026**	**7.518**	**10842.941**	**8455.750**
PZH003																							
19/01/2024	0.001	0.010	0.001	0.002	222.000	5310.000	0.001	0.013	0.022	0.100	0.001	702.000	0.040	0.000	0.018	28.000	3160.000	2300.000	0.010	0.615	7.615	9258.095	6905.255
11/04/2024			0.001		281.000	5250.000						693.000				34.000	3430.000	2480.000			7.365	18400.000	13200.000
11/07/2024			0.001		275.000	5430.000						716.000				36.000	3160.000	2470.000			7.130	18403.500	12606.000
24/10/2024			0.001		261.000	5130.000						707.000				39.000	3150.000	2550.000			7.385	18768.500	13025.000
Average	**0.001**	**0.010**	**0.001**	**0.002**	**259.750**	**5280.000**	**0.001**	**0.013**	**0.022**	**0.100**	**0.001**	**704.500**	**0.040**	**0.000**	**0.018**	**34.250**	**3225.000**	**2450.000**	**0.010**	**0.615**	**7.374**	**16207.524**	**11434.064**
PZH005																							
19/01/2024	0.002	0.011	0.001	0.000	134.000	4370.000	0.001	0.001	0.005	0.050	0.001	599.000	0.008	0.000	0.015	11.000	2330.000	1110.000	0.010	0.038	7.625	7456.025	9118.500
11/04/2024			0.001		163.000	4210.000						586.000				13.000	2500.000	1240.000			7.475	14400.000	9770.000
11/07/2024			0.001		171.000	3880.000						517.000				15.000	2590.000	2430.000			7.510	13316.000	9655.500
24/10/2024			0.001		142.000	4070.000						590.000				13.000	2270.000	1210.000			7.145	14318.000	9854.500
Average	**0.002**	**0.011**	**0.001**	**0.000**	**152.500**	**4132.500**	**0.001**	**0.001**	**0.005**	**0.050**	**0.001**	**573.000**	**0.008**	**0.000**	**0.015**	**13.000**	**2422.500**	**1497.500**	**0.010**	**0.038**	**7.439**	**12372.506**	**9599.625**
PZH006																							
15/03/2024	0.001	0.018	0.001	0.000		2360.000	0.001	0.005	0.001	0.050	0.001	487.000	0.217	0.000	0.005	8.000	1620.000	2120.000	0.010	0.042	6.790	10600.000	7730.000
19/06/2024	0.004	0.026	0.001	0.000	144.000	2470.000	0.001	0.013	0.023	1.800	0.004	485.000	0.245	0.000	0.010	7.000	1480.000	1980.000	0.010	0.077	7.930	11100.000	7420.000
24/09/2024			0.001		153.000	2600.000						460.000				7.000	1650.000	2090.000			7.370	10800.000	7570.000
26/09/2024																					6.800	9953.000	6771.000
13/12/2024			0.001		148.000	2780.000						435.000				7.000	1590.000	1980.000			7.185	10266.500	6870.000
Average	**0.003**	**0.022**	**0.001**	**0.000**	**148.333**	**2552.500**	**0.001**	**0.009**	**0.012**	**0.925**	**0.003**	**466.750**	**0.231**	**0.000**	**0.008**	**7.250**	**1585.000**	**2042.500**	**0.010**	**0.060**	**7.215**	**10543.900**	**7272.200**
PZH007																							
15/03/2024	0.003	0.180	0.001	0.000		1680.000	0.001	0.003	0.010	0.050	0.001	214.000	1.950	0.000	0.005	24.000	1320.000	1050.000	0.010	0.005	7.260	8220.000	5300.000
19/06/2024	0.005	0.160	0.001	0.001	107.000	1380.000	0.004	0.030	0.206	2.950	0.033	207.000	1.370	0.000	0.014	18.000	1110.000	753.000	0.020	0.127	8.200	7570.000	4610.000
25/09/2024			0.001		126.000	1800.000						225.000				23.000	1440.000	1360.000			7.810	8490.000	5480.000
26/09/2024																					7.300	7856.000	5356.000
13/12/2024			0.001		146.000	3530.000						416.000				23.000	2610.000	2620.000			7.505	12529.500	8353.000
Average	**0.004**	**0.170**	**0.001**	**0.000**	**126.333**	**2097.500**	**0.003**	**0.017**	**0.108**	**1.500**	**0.017**	**265.500**	**1.660**	**0.000**	**0.010**	**22.000**	**1620.000**	**1445.750**	**0.015**	**0.066**	**7.615**	**8933.100**	**5819.800**

Table A2 2024 Groundwater Quality Result (mg/L) (Cont'd)

Date	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chloride	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Sulfate as SO4	Vanadium	Zinc	pH	Conductivity	Total Dissolved Solids @180°C
Stock Watering Trigger *	0.5	-	-	0.01	1000	-	1	1	1	N/A	0.1	-	N/A	0.002	1	-	-	1000	-	20	6 - 9	6000	4000
Irrigation Triggers #	2	-	0.5	0.05	-	350	1	0.1	5	10	5	-	10	0.002	2	-	230	-	0.5	5	6 - 9	6000	-
PZH008																							
26/02/2024			0.001		167.000	3740.000						537.000				10.000	2480.000	1740.000			7.200	13700.000	9740.000
9/05/2024	0.006	0.013	0.001	0.000	144.000	3590.000	0.001	0.001	0.003	0.050	0.001	444.000	0.002	0.000	0.001	9.000	2100.000	1610.000	0.010	0.026	7.485	14300.000	9220.000
2/02/2024			0.001		164.000	3540.000						521.000				10.000	2400.000	1860.000			7.890	13900.000	9720.000
20/08/2024																					6.900	12734.000	8905.000
21/08/2024			0.001		166.000	3530.000						464.000				10.000	2200.000	1900.000			7.720	14400.000	9280.000
13/11/2024																					6.780	12271.000	8387.000
15/11/2024			0.001		186.000	3740.000						550.000				12.000	2550.000	2000.000			8.010	14100.000	9140.000
Average	**0.006**	**0.013**	**0.001**	**0.000**	**165.400**	**3628.000**	**0.001**	**0.001**	**0.003**	**0.050**	**0.001**	**503.200**	**0.002**	**0.000**	**0.001**	**10.200**	**2346.000**	1822.000	**0.010**	**0.026**	**7.426**	13629.286	9198.857
PZH009																							
26/02/2024			0.001		193.000	5170.000						649.000				17.000	3380.000	2230.000			7.470	17900.000	12500.000
9/05/2024	0.010	0.036	0.010	0.001	184.000	4980.000	0.010	0.010	0.059	0.100	0.010	623.000	0.010	0.000	0.011	16.000	3120.000	2040.000	0.100	0.096	7.680	18200.000	12100.000
2/02/2024			0.001		191.000	4830.000						614.000				16.000	3230.000	2300.000			8.110	17900.000	12500.000
20/08/2024																					7.300	16714.000	11588.000
21/08/2024			0.001		189.000	4760.000						561.000				17.000	3010.000	2320.000			7.930	18700.000	12100.000
13/11/2024																					7.140	15799.000	10852.000
15/11/2024			0.001		207.000	4720.000						653.000				19.000	3350.000	2570.000			8.120	17900.000	12600.000
Average	**0.010**	**0.036**	**0.003**	**0.001**	**192.800**	**4892.000**	**0.010**	**0.010**	**0.059**	**0.100**	**0.010**	**620.000**	**0.010**	**0.000**	**0.011**	**17.000**	**3218.000**	2292.000	**0.100**	**0.096**	**7.679**	17587.571	12034.286
PZH010																							
15/03/2024	0.001	0.015	0.001	0.000		3310.000	0.001	0.001	0.001	0.050	0.001	465.000	0.221	0.000	0.002	14.000	2180.000	1280.000	0.010	0.038	7.010	12900.000	8670.000
19/06/2024	0.001	0.021	0.001	0.001	143.000	3370.000	0.001	0.009	0.042	0.630	0.002	432.000	0.271	0.000	0.007	12.000	1910.000	1180.000	0.010	0.146	8.140	13300.000	8260.000
24/09/2024			0.001		133.000	3380.000						427.000				12.000	2100.000	1460.000			7.460	13100.000	8560.000
26/09/2024																					6.860	12002.000	8146.000
13/12/2024			0.001		143.000	3660.000						424.000				12.000	2120.000	1380.000			7.290	12331.000	7938.000
Average	**0.001**	**0.018**	**0.001**	**0.000**	**139.667**	**3430.000**	**0.001**	**0.005**	**0.022**	**0.340**	**0.002**	**437.000**	**0.246**	**0.000**	**0.005**	**12.500**	**2077.500**	1325.000	**0.010**	**0.092**	**7.352**	12726.600	8314.800
PZH013																							
17/12/2024	0.000	0.000	0.001	0.000	315.000	3640.000	0.000	0.000	0.000	0.000	0.000	650.000	0.000	0.000	0.000	18.000	1970.000	2530.000	0.000	0.000	7.080	12296.000	8287.000
Average	**0.000**	**0.000**	**0.001**	**0.000**	**315.000**	**3640.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**650.000**	**0.000**	**0.000**	**0.000**	**18.000**	**1970.000**	2530.000	**0.000**	**0.000**	**7.080**	12296.000	8287.000
PZH014																							
26/02/2024			0.001		210.000	4070.000						636.000				14.000	2740.000	1950.000			7.030	14900.000	10800.000
9/05/2024	0.001	0.002	0.001	0.000	204.000	4080.000	0.001	0.001	0.003	0.050	0.001	549.000	0.016	0.000	0.002	16.000	2480.000	1800.000	0.010	0.007	7.325	15300.000	10100.000
2/02/2024			0.001		203.000	3960.000						585.000				12.000	2500.000	2050.000			7.740	14800.000	10600.000
20/08/2024																					6.730	6973.000	4660.000
21/08/2024			0.001		200.000	3890.000						532.000				14.000	2380.000	2080.000			7.620	15700.000	10300.000
15/11/2024			0.001		226.000	4120.000						638.000				16.000	2750.000	2280.000			7.260	14599.500	9786.500
Average	**0.001**	**0.002**	**0.001**	**0.000**	**208.600**	**4024.000**	**0.001**	**0.001**	**0.003**	**0.050**	**0.001**	**588.000**	**0.016**	**0.000**	**0.002**	**14.400**	**2570.000**	2032.000	**0.010**	**0.007**	**7.284**	13712.083	9374.417
PZH015																							
26/02/2024			0.001		217.000	4590.000						689.000				26.000	3360.000	2960.000			7.105	17500.000	12700.000
9/05/2024																					7.220		
20/08/2024																					6.810	17070.000	11505.000
2/02/2024			0.001		215.000	4350.000						640.000				24.000	3130.000	2980.000			7.800	17300.000	12900.000
17/05/2024	0.001	0.008	0.001	0.000	224.000	5220.000	0.002	0.001	0.010	0.050	0.001	636.000	0.033	0.000	0.005	26.000	3160.000	2780.000	0.010	0.028	8.010	17600.000	12200.000
21/08/2024			0.001		215.000	4300.000						660.000				24.000	3200.000	3140.000			7.700	18200.000	12600.000
15/11/2024			0.001		244.000	4500.000						694.000				27.000	3390.000	3380.000			7.345	16778.000	11755.500
Average	**0.001**	**0.008**	**0.001**	**0.000**	**223.000**	**4592.000**	**0.002**	**0.001**	**0.010**	**0.050**	**0.001**	**663.800**	**0.033**	**0.000**	**0.005**	**25.400**	**3248.000**	3048.000	**0.010**	**0.028**	**7.427**	17408.000	12276.750

Table A2 2024 Groundwater Quality Result (mg/L) (Cont'd)

Date	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chloride	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Sulfate as SO4	Vanadium	Zinc	pH	Conductivity	Total Dissolved Solids @180°C
Stock Watering Trigger *	0.5	-	-	0.01	1000	-	1	1	1	N/A	0.1	-	N/A	0.002	1	-	-	1000	-	20	6 - 9	6000	4000
Irrigation Triggers #	2	-	0.5	0.05	-	350	1	0.1	5	10	5	-	10	0.002	2	-	230	-	0.5	5	6 - 9	6000	-
PZH017																							
2/02/2024			0.001		113.000	3150.000						308.000				13.000	2260.000	902.000			8.060	12000.000	7890.000
26/02/2024			0.001		116.000	3330.000						335.000				15.000	2420.000	909.000			7.490	12100.000	7750.000
9/05/2024	0.001	0.021	0.001	0.000	118.000	3390.000	0.001	0.001	0.002	0.050	0.001	298.000	0.043	0.000	0.001	16.000	2170.000	929.000	0.010	0.006	7.700	12200.000	7410.000
20/08/2024																					7.220	11553.000	7894.000
21/08/2024			0.001		114.000	3220.000						311.000				13.000	2260.000	1050.000			8.000	12700.000	7510.000
15/11/2024			0.001		131.000	3200.000						334.000				16.000	2450.000	920.000			7.650	11427.000	7536.000
Average	**0.001**	**0.021**	**0.001**	**0.000**	**118.400**	**3258.000**	**0.001**	**0.001**	**0.002**	**0.050**	**0.001**	**317.200**	**0.043**	**0.000**	**0.001**	**14.600**	**2312.000**	**942.000**	**0.010**	**0.006**	**7.687**	11996.667	7665.000
PZH018																							
2/02/2024			0.001		346.000	7610.000						876.000				32.000	4660.000	2620.000			7.990	25700.000	18600.000
26/02/2024			0.001		347.000	8100.000						995.000				36.000	5160.000	2510.000			7.375	26100.000	20500.000
9/05/2024																					5.110		
20/05/2024	0.001	0.020	0.001	0.000	308.000	8090.000	0.001	0.005	0.006	0.050	0.001	864.000	0.352	0.000	0.006	34.000	4550.000	2400.000	0.010	0.020	8.050	26600.000	18700.000
20/08/2024																					6.910	8887.000	5108.000
21/08/2024			0.001		160.000	3770.000						490.000				15.000	2670.000	1920.000			8.160	15400.000	9800.000
15/11/2024			0.001		371.000	7230.000						977.000				42.000	5000.000	2900.000			7.610	24865.500	19055.500
Average	**0.001**	**0.020**	**0.001**	**0.000**	**306.400**	**6960.000**	**0.001**	**0.005**	**0.006**	**0.050**	**0.001**	**840.400**	**0.352**	**0.000**	**0.006**	**31.800**	**4408.000**	**2470.000**	**0.010**	**0.020**	**7.315**	21258.750	15293.917
PZH019																							
15/03/2024	0.001	0.051	0.001	0.000		3370.000	0.001	0.004	0.006	0.050	0.001	413.000	0.664	0.000	0.005	16.000	1950.000	2210.000	0.010	0.054	7.600	12000.000	8180.000
20/06/2024	0.003	0.025	0.001	0.001	85.000	2810.000	0.001	0.006	0.032	0.050	0.001	291.000	0.053	0.000	0.017	10.000	1740.000	797.000	0.010	0.091	8.270	11200.000	6840.000
20/09/2024																					7.080	10931.000	7241.000
24/09/2024			0.001		52.000	3070.000						298.000				10.000	2000.000	889.000			7.600	11300.000	7060.000
15/11/2024																					7.140	15799.000	10852.000
17/12/2024																					6.860	80.100	45.000
Average	**0.002**	**0.038**	**0.001**	**0.000**	**68.500**	**3083.333**	**0.001**	**0.005**	**0.019**	**0.050**	**0.001**	**334.000**	**0.359**	**0.000**	**0.011**	**12.000**	**1896.667**	**1298.667**	**0.010**	**0.073**	**7.425**	10218.350	6703.000
PZH020																							
20/06/2024	0.001	0.016	0.001	0.001	117.000	3260.000	0.001	0.007	0.038	0.190	0.001	313.000	0.062	0.000	0.010	34.000	2100.000	886.000	0.010	0.112	8.200	13300.000	8150.000
Average	**0.001**	**0.016**	**0.001**	**0.001**	**117.000**	**3260.000**	**0.001**	**0.007**	**0.038**	**0.190**	**0.001**	**313.000**	**0.062**	**0.000**	**0.010**	**34.000**	**2100.000**	**886.000**	**0.010**	**0.112**	**8.200**	13300.000	8150.000
PZH021																							
15/03/2024	0.001	0.051	0.001	0.000		2990.000	0.001	0.004	0.005	0.050	0.001	421.000	0.647	0.000	0.005	16.000	1980.000	1790.000	0.010	0.047	7.440	12100.000	8140.000
19/06/2024	0.001	0.062	0.001	0.000	256.000	4430.000	0.001	0.007	0.026	3.150	0.001	607.000	1.020	0.000	0.005	17.000	2380.000	1430.000	0.010	0.051	8.140	16800.000	10600.000
25/09/2024			0.001		51.000	4590.000						569.000				18.000	2620.000	1540.000			7.780	16800.000	10600.000
26/09/2024																					7.150	15436.000	10323.000
13/12/2024			0.001		38.000	217.000						34.000				6.000	121.000	56.000			7.855	1102.500	603.000
Average	**0.001**	**0.057**	**0.001**	**0.000**	**115.000**	**3056.750**	**0.001**	**0.006**	**0.016**	**1.600**	**0.001**	**407.750**	**0.834**	**0.000**	**0.005**	**14.250**	**1775.250**	**1204.000**	**0.010**	**0.049**	**7.673**	12447.700	8053.200