

EPBC 2016/7648 Annual Compliance Report July 1 2023 - June 30 2024



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Thunderbird Mineral Sands Project



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AUTHORISATION

Revision Number	Reason for Issue	Prepared	Approved	Date
1	Requirement under EPBC	Molly Ahern/Micaela Green	Mitchell Duley	20/06/2024
2	Requirement under EPBC			



1. INTRODUCTION

1.1 Project Overview

Kimberley Mineral Sands (KMS) is a 50:50 Joint Venture between Sheffield Resources Ltd (SFX)and YGH Australia Investment Pty Ltd (Yansteel) for the development of the Thunderbird Mineral Sands Project ('Thunderbird') in the West Kimberley.

Thunderbird is one of the largest and highest-grade zircon mineral sands deposits in the world and contains valuable minerals including ilmenite, zircon, leucoxene, and rutile, which are extracted and exported via the Port of Broome to our global offtake partners.

Thunderbird is located on the Dampier Peninsula within the west Kimberley region of Western Australia (Figure 1), approximately 75 km west southwest of Derby and 95 km northeast of Broome. It is accessed from the Great Northern Highway via a 30 km long Site Access Road.

The project is located within the Mt Jowlaenga Pastoral Lease currently held by the Yeeda Pastoral Company Pty Ltd. The Site is situated within the Joombarn-buru native title determination. The Site Access Road intersects the Great Northern Highway approximately halfway between Broome and Derby..

Thunderbird was developed on a greenfield site and comprises:

- Mining of heavy mineral sands over a 36 plus year period from the Thunderbird deposit
- Onsite primary and secondary processing of heavy mineral sands to produce a range of saleable products
- Abstraction and reinjection of groundwater from the Broome Sandstone Aquifer to allow mining and supply ore processing needs
- Project infrastructure including power generation facilities, accommodation village, administration and maintenance buildings, internal roads, communications infrastructure, and waste storage and disposal facilities
- A 30km site access road from the Great Northern Highway towards the mine site
- Transport of mineral sands products from the mine site via the Site Access Road and Great Northern Highway to the Port of Broome for storage prior to export
- Export of bulk mineral sands products from the Port to international customers



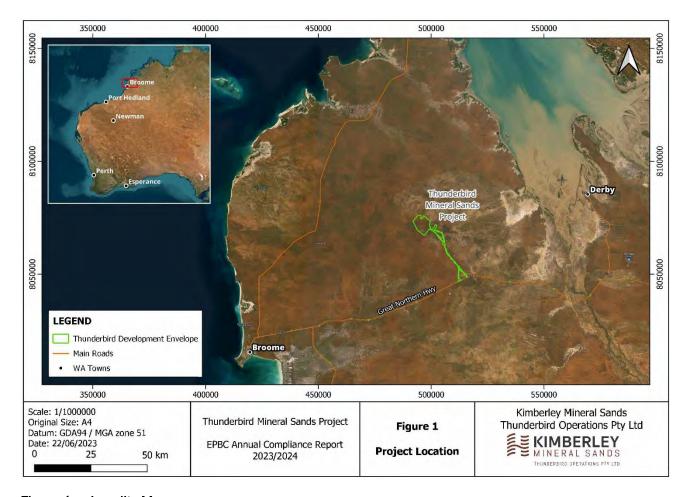


Figure 1. Locality Map

1.2 Objective

This report addresses condition 8 of EPBC 2016/7648, as stipulated:

By 30 June of each year after the commencement of the action, the approval holder must publish a report on their website addressing compliance with the conditions of this approval over the previous 12 months, including implementation of approved plans or strategies specified in the conditions. Non-compliance with any of the conditions of this approval must be reported to the Minister at the same time as the compliance report is published.

The Project commenced the action on 11 August 2021. The Department was notified of commencement of the action on 16 December 2021. As of Q1 2024 the Project is in the operational phase, with the first shipment of product sent on 28 January 2024.

1.3 Scope

This report details the commitments outlined within EPBC 2016/7648 (issued on 27 September 2018) and assessment of compliance against conditions 1-12 for the reporting period 1 July 2023 to 30 June 2024.



2. STATEMENT OF COMPLIANCE

2.1 Proposal and Proponent

Table 1. Company and Proposal Details

Proposal Title	Thunderbird Mineral Sands Project		
Location of the Project	Kimberley Region, approximately 75 km west southwest of Derby and 95 km northeast of Broome. It is accessed from the Great Northern Highway via a 30 km long Site Access Road.		
Approved Action Number	EPBC 2016/7648		
Proponent Name	Thunderbird Operations PTY LTD		
Proponent's Australian Company Number (where relevant)	611 351 743		

2.2 Proponent Declaration

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

Signed	Moss
Full Name (please print)	Mitchell Duley
Position (please print)	Environmental Superintendent
Organisation (please print including ABN/ACN if applicable)	Thunderbird Operations PTY LTD ACN 611 351 743 Kimberley Mineral Sands ABN 11 611 351 743
Date	20/06/2024



3. DESIGNATIONS TO RECORD FINDINGS

3.1 Assessment of Compliance

The terminology used to record findings in the compliance report (Table 2) is consistent with that used by the DCCEEW Annual Compliance Report Guidelines (2014).

Table 2. Compliance Status Terminology

Status	Description
Compliant	'Compliance' is achieved when all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.
Non-compliant	A designation of 'non-compliance' should be given where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Not Applicable	A designation of 'not applicable' should be given where the requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example, a condition which apprise to an activity that has not yet commenced.



4. COMPLIANCE ASSESSMENT

4.1 Audit Assessment

In accordance with condition 8 of the EPBC Act approval (Approval Reference EPBC 2016-7648), this report provides an update of Thunderbird's compliance against the relevant approval conditions (Table 3).

Table 3. Thunderbird Mineral Sands Project EPBC 2016/7648 Audit Assessment

EPBC 2010	EPBC 2016/7648				
Condition Number	Condition	Compliant/Non- Compliant/Not Applicable	Evidence/Comments		
1	For the protection of the Greater Bilby , the approval holder must not clear more than 1,961.1 ha and must not clear any area outside the development envelope .	Compliant	At the time of reporting, a total 509.7 ha of land across the Thunderbird Development Envelope had been cleared (see Appendix A and B). Records are maintained via an 'Area of Disturbance' database which is regularly updated (Appendix C). Supporting survey and spatial data is retained as part of the assurance procedure to verify compliance against State and Commonwealth clearing allocations. No clearing occurred outside of the development envelope during the reporting period. Supporting Documents: Appendix A; Disturbance Areas Site Plan Appendix B; Thunderbird Mine Site Development Envelope Site Plan Appendix C; Thunderbird Operations - Area of Disturbance Records		
2	For the protection of the Greater Bilby , the approval holder must submit a Terrestrial Fauna Environmental Management Plan (TFEMP) to the Minister for approval. The TFEMP must: a) Detail the protocol/s that will be implemented during pre-clearance surveys, including to identify Greater Bilby burrows and for Greater Bilby capture and translocation into suitable habitat; and	Compliant	The Terrestrial Fauna Environmental Management Plan for The Thunderbird Mineral Sands Project dated 24 October 2018 was approved by the Minister on 20 November 2018 (Appendix D). All clearing was conducted using internal permit to clear procedures (Appendix E), and in accordance with the Greater Bilby disturbance protocols stipulated within the Terrestrial Fauna Environmental Management Plan. All Greater Bilby activity		



b) Comply with conditions 6-1,6-2,6-3,6-4,6-5,6-6,6-7 and 6-8 of the Western Australian Approval. The approval holder must not commence the action until the Minister has approved the TFEMP. The approved TFEMP must be implemented.		was recorded and documented in the internal Greater Bilby survey database (Appendix F) and through GIS Database. Supporting Documents: Appendix D; Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy Approval Letter (2018) Appendix E; Permit to Clear Example Appendix F; Greater Bilby Survey Summary
The approval holder must within twelve months of the date of this approval submit to the Minister for approval an Offset Strategy that will compensate for the residual impacts to the Greater Bilby. The Offset Strategy must be consistent with the principles of the EPBC Act Environmental Offsets Policy, and must: a) Provide offsets for 1,961.1 ha of Greater Bilby habitat to be cleared as a result of the action; b) Prioritise land management activities with direct benefit for Greater Bilby habitat over research activities; c) Consistently with relevant approved conservation advice, recovery plans and threat abatement plans and/or regional conservation plans, identify threats to Greater Bilby, and nominate priorities for offset projects that are likely to realise a conservation benefit for Greater Bilby; d) Specify a financial commitment to offset projects based on a rate of at least \$2,500 (excluding GST) per hectare of Greater Bilby habitat cleared. The contributions rate must be amended quarterly to match inflation measured through CPI, taking the date of this approval as the starting point for adjustments; e) Specify milestones for Greater Bilby habitat clearing and for expenditure on offset projects, with a staged process for developing and submitting offset projects for approval by the Department; f) Specify the process for reporting on expenditure on offset projects, and conservation outcomes achieved; and g) Outline the circumstances whereby the approval holder may request from the Minister an acquittal of a portion of the area of Greater Bilby habitat specified in Condition 3(a) as a result of implementing rehabilitation activities. The approval holder must not commence the action until the Minister has approved the Offset Strategy. The approval holder must implement the approved Offset Strategy.	Compliant	The Offset Strategy for The Thunderbird Mineral Sands Project dated 13 October 2018 was approved by the Minister on 20 November 2018 (Appendix D). A revision to the Offset Strategy was approved on 7 October 2020 (Appendix G). A Subsequent revision to the Offset Strategy was submitted on 17 April 2023, the approval process for this document was ongoing at the time of reporting (Appendix H). This revision of the Offset Strategy is subject to Bilateral assessment by the Western Australian Department of Water and Environmental Regulation (DWER) as well as DCCEEW. The requirement for bilateral assessment is prompted by the amalgamation of the Greater Bilby Research and Conservation Plan (GBRCP) into the Offset Strategy. The GBRCP is a requirement of Condition 10 of WA EPA Ministerial Statement 1080, as such, assessment of the revised Offset Strategy will be coordinated by DWER with DCCEEW to align approval for the purposes of both Ministerial Statement 1080 and EPBC Act Approval 2016/70648. Thunderbird notified commencement of offset payments for the entirety of clearing related to the project on 16 December 2021. The first payment was then processed on 1 June 2022. At the time of reporting, offsets had been paid up until the end of Q1 2024 – accounting for 468.25 cleared hectares (Appendix I). Supporting Documents: Appendix D; Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy Approval Letter (2018) Appendix G; Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy Approval Letter (2020) Appendix H; Ministerial Statement 1080 Thunderbird Mineral Sands Project, Condition 10 – Greater Bilby Research and Conservation Plan Submission



			Appendix I; Example Proof of Payment to Greater Bilby Offset Fund
4	Offset project proposals submitted for approval in accordance with Condition 3(e) must: a) Specify the location and nature of offset project activities; b) Include project goal/s, budget, and a detailed offset project description, including timeframes for implementing the offset project, and reporting and publishing offset project results; c) Identify and manage all risks (including but not limited to environmental, administrative, financial, and governance risks) associated with implementing the offset project; d) Demonstrate how the offset project is consistent with the Offset Strategy; e) Outline consultations associated with developing the offset project, including the outcomes of those consultations; and f) Outline how the offset project complies with the principles of the EPBC Act Environmental Offsets Policy and, if relevant, how the offset project meets the criteria for research and educational programs identified in Appendix A of the EPBC Act Environmental Offsets Policy. The approval holder must not undertake, begin to undertake, or commit to a third party to undertake, an offset project until that offset project has been approved in writing by the Department. The approved offset project must be implemented unless otherwise agreed in writing by the Department	Not Applicable	The GBRCP/Offset Strategy revision highlighted the most significant threats to the Greater Bilby population within The Dampier Peninsula. The priorities with regards to conservation and management were also discussed, with this information being used as a benchmark to assess potential offset projects that would have the greatest impact on the future Bilby population. The most beneficial of the proposed offset projects was targeted at feral cat control and fire management across the Dampier Peninsula. Submission of Offset projects will occur following approval of the revised Offset Strategy/GBRCP.
5	To protect Humpback Whales (<i>Megaptera novaeangliae</i>), the approval holder must ensure that shipping vessels it controls, and those which are under commercial arrangement between the approval holder and other parties, must: a) Comply with Part 8, Division 8.01, Regulations 8.05 and 8.06 of the EPBC Regulations, and implement all mitigation and management measures specified therein; and b) Within State coastal waters, operate as though the mitigation and management measures specified in Part 8, Division 8.01, Regulations 8.05 and 8.06 of the EPBC Regulations apply, and comply with and implement those measures, as per Condition 5(a).	Compliant	The project progressed from the construction phase to the operational phase in October 2023, with the first production from the process plant on the 18 October. The first shipment of product occurred on the 28 January 2024 and since that time a total of 5 vessels have sailed from Broome Port. KMS contracted vessels trafficking the Port of Broome are under the direct operational control of the Kimberley Ports Authority (KPA). Upon entering port waters, vessels are piloted by an experienced Captain, as stipulated by the KPA. KPA has policies in place to ensure the protection of cetaceans and directs piloted vessels to take all safe and practicable steps to minimise impact to the surrounding environment. Under KPA standards and procedures all impacts to marine life are to be reported through their Safety Management System. To date, there have been no reported fauna strikes in Broome Port Waters by KPA or KMS contracted vessels. Supporting Evidence:



			Appendix K; Kimberley Mineral Sands – EPBC Reporting; Kimberley Ports Authority Letter Appendix L; Humpback Whale Migration – July to October; Kimberley Ports Authority Environment Bulletin
6	Within 30 days after the commencement of the action, the approval holder must advise the Minister in writing of the actual date of commencement .	Non-Compliant	Commencement was notified on 16 December 2021, however the action had officially commenced on 11 August 2021, therefore exceeding the 30 day notification period (Appendix J). This has been addressed in previous compliance reports. Supporting Documents: Appendix J; Commencement of the Action – Thunderbird Mineral Sands Project, WA, EPBC 2016/7648
7	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the strategy and plans required by this approval, and make them available upon request to the Minister . Such records may be subject to audit by the Minister or an independent auditor in accordance with section 458 of the EPBC Act , or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	Thorough record keeping and data management practices are maintained in order to satisfy compliance with approval conditions on the Thunderbird Mineral Sands Project. The 'Permit to Clear', documents compliance actions completed for each area prior to clearing (Appendix E). Supporting survey and spatial data is retained as part of the assurance procedure to verify compliance against clearing allocations. Post clearance survey data is collected for each area of disturbance with records being maintained via an 'Area of Disturbance' database that is regularly updated (Appendix C). This ensures appropriate implementation of the TFEMP and accurate tracking of Offset payments. All database and records in relation to compliance to the conditions stated in this approval are available upon request. Supporting Documents: Appendix E; Permit to Clear Example Appendix C; Thunderbird Operations - Area of Disturbance Records
8	By 30 June of each year after the commencement of the action, the approval holder must publish a report on their website addressing compliance with the conditions of this approval over the previous 12 months, including implementation of approved plans or strategies specified in the conditions. Non-compliance with any of the conditions of this approval must be reported to the Minister at the same time as the compliance report is published.	Compliant	Publication of this report on or before 30 June 2024 represents compliance with condition 8 of EPBC 2016/7648.



9	Upon the direction of the Minister , the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister . The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister .	Not Applicable	No independent audit has been requested by the minister.
10	If, at any time after five years from the date of this approval, the approval holder has not commenced the action, then the approval holder must not commence the action without the written agreement of the Minister .	Compliant	The action has commenced (Appendix J). Supporting Documents: Appendix J; Commencement of the Action – Thunderbird Mineral Sands Project, WA, EPBC 2016/7648
11	The approval holder may choose to revise the plan approved by the Minister under Condition 2 without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact. If the approval holder makes this choice they must notify the Department in writing that the approved plan has been revised and provide the Department, at least four weeks before implementing the revised plan, with: a) An electronic copy of the revised plan; b) An explanation of the differences between the revised plan and the approved plan; and c) The reasons the approval holder considers that the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact.	Not Applicable	No revision to the approved plan has been made to date.
11A	The approval holder may revoke its choice under Condition 11 at any time by giving written notice to the Department . If the approval holder revokes the choice to implement the revised plan, without approval under section 143A of the EPBC Act , the plan approved by the Minister must be implemented.	Not Applicable	No revision to the approved plan has been made to date.
11B	If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then: a) Condition 11 does not apply, or ceases to apply, in relation to the revised plan; and b) The approval holder must implement the plan approved by the Minister .	Not Applicable	No revision to the approved plan has been made to date.



	To avoid any doubt, this condition does not affect any operation of Conditions 11 and 11A in the period before the day the notice is given. At the time of giving the notice, the Minister may also notify that for a specified period of time Condition 11 does not apply for the plan required under the approval. Conditions 11, 11A and 11B are not intended to limit the operation of section 143Aof the EPBC Act which allows the approval holder to submit a revised plan to the Minister for approval.		
12	If the approval holder wishes to carry out the action otherwise than in accordance with the Offset Strategy approved by the Minister under Condition 3, the approval holder may submit a revised Offset Strategy for the Minister's approval. If the Minister approves the revised Offset Strategy, the approval holder must implement that strategy instead of the Offset Strategy as originally approved.	Compliant	The latest approved revision of the Offset Strategy was formally accepted on 8 September 2020 (Appendix G). A revision to the approved strategy was submitted on 17 April 2023 and, at the time of writing this report, was awaiting approval (Appendix H). The later revision of the Offset Strategy is to wait approval prior to implementation. Supporting Documents: Appendix G; Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy Approval Letter (2020) Appendix H; Ministerial Statement 1080 Thunderbird Mineral Sands Project, Condition 10 – Greater Bilby Research and Conservation Plan Submission
13	Unless otherwise agreed to in writing by the Minister , the approval holder must publish the plan or strategy referred to in these conditions of approval on their website. Each plan or strategy must be published on the website within 1 month of being approved by the Minister or from expiry of the four-week period in Condition 11.	Compliant	Both the Terrestrial Fauna Environmental Management Plan and Offset Strategy are available on the Kimberley Mineral Sands Website. Evidence: https://www.kmsands.com.au/site/esg/environment



4.2 Definitions

Acquittal	Means reduction in the amount payable for the offset.
Clear/Cleared/Clearing	Means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of native vegetation, but does not include measures for weed and pest management.
Construction	Includes any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures and the use of heavy-duty equipment for the purpose of breaking the ground for buildings or infrastructure.
Commence, commenced or commencement	The first instance of any construction works for any infrastructure, excluding fences and signage, associated with the proposed action.
СРІ	'Consumer Price Index' (or successor index) as a measure of inflation in Australia, as measured by the Reserve Bank of Australia.
Department ('s)	The Australian Government Department or any other agency administering the EPBC Act from time to time.
Development Envelope	The Boundary of the action as defined in Appendix B, where it is depicted as 'Thunderbird Minesite Development Envelope' and marked with a blue outline.
EPBC Act	The Environment Protection and Biodiversity Conservation Act 1999 (Cth).
EPBC Act Environmental Offsets Policy	The Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy (October 2012), or subsequent revision, including the Offsets Assessment Guide. Available at: http://www.environment.gov.au/epbc/publications/epbc-act-environmental-offsets-policy
EPBC Regulations	The Environment Protections and Biodiversity Conservation Regulations 2000 (Cth).
Greater Bilby	The EPBC Act listed Greater Bilby (Macrotis lagotis).
Independent expert	A scientist with relevant qualifications and expertise appointed and funded by the approval holder whose appointment is approved by the Department.
Mine pits	As defined in Appendix B, where it is depicted as 'mine pits' and highlighted in orange.
Minister	The Minister administering the EPBC Act and includes a delegate of the Minister.
Plan(s)	All plans specified in these conditions and/or those defined in the Offset Strategy.
Recovery Plan/s	A recovery plan made or adopted by the Minister under the EPBC Act.





Threat abatement plans	A threat abatement plan made or adopted by the Minister under the EPBC Act.
Western Australian Approval	Ministerial Statement No.1080 - Thunderbird Mineral Sands Project published on 10 August 2018 under the Environmental Protections Act 1986 (WA).

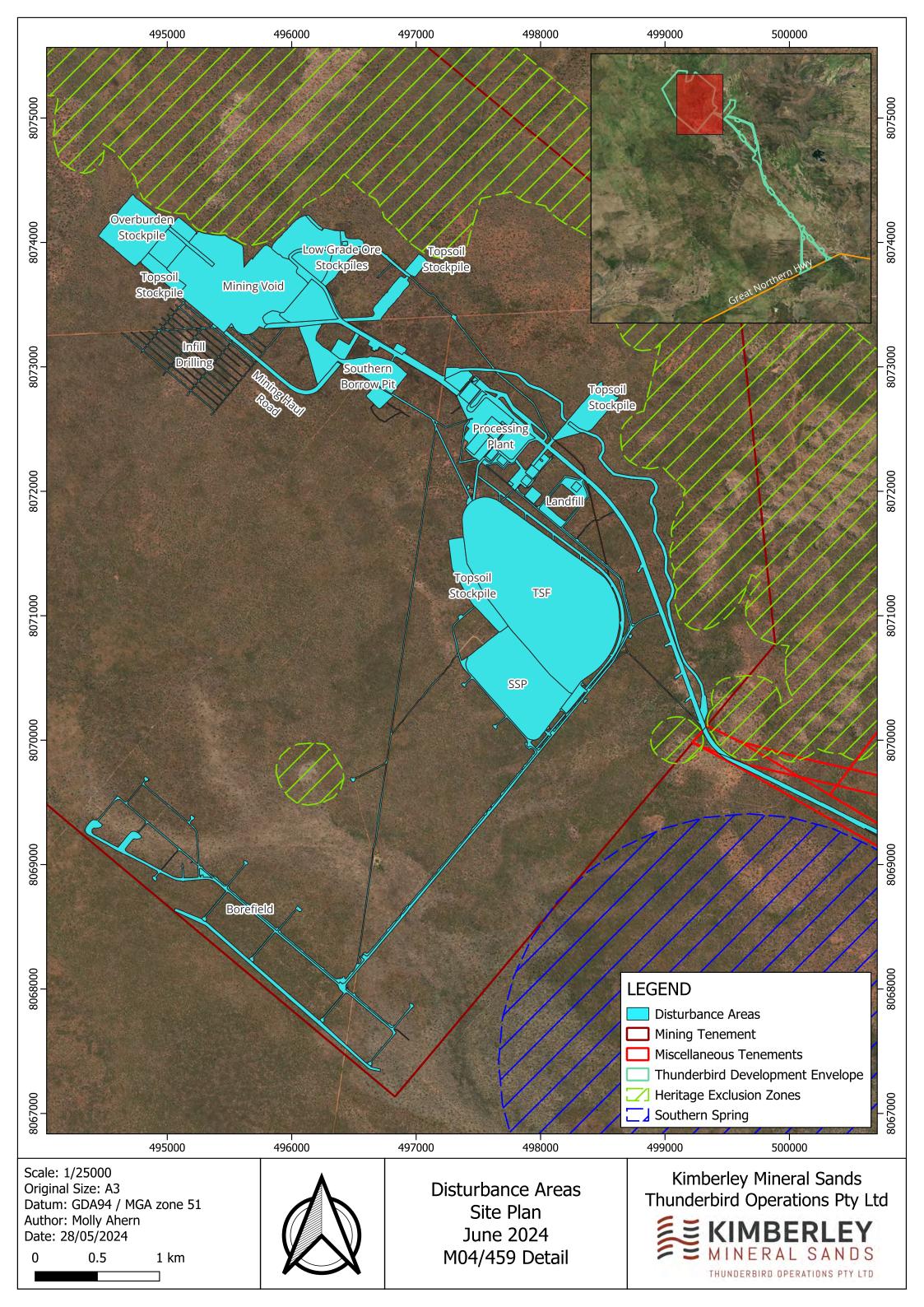
5. REFERENCES

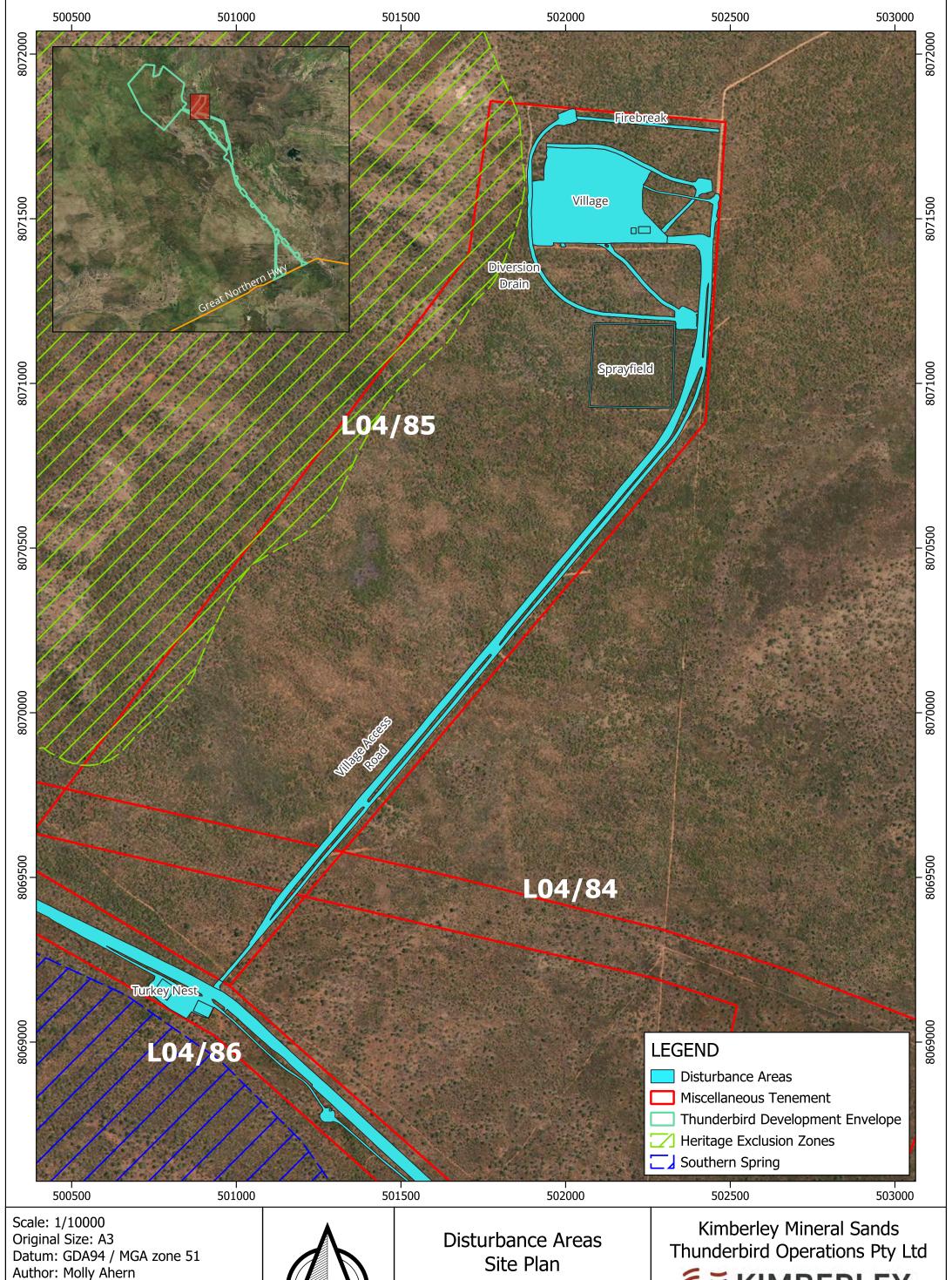
Department of Agriculture, Water and the Environment. 2014. *Annual Compliance Report Guidelines*. Department of Environment, Canberra ACT. 2014.



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6.1 Appendix A: Disturbance Areas Site Plan





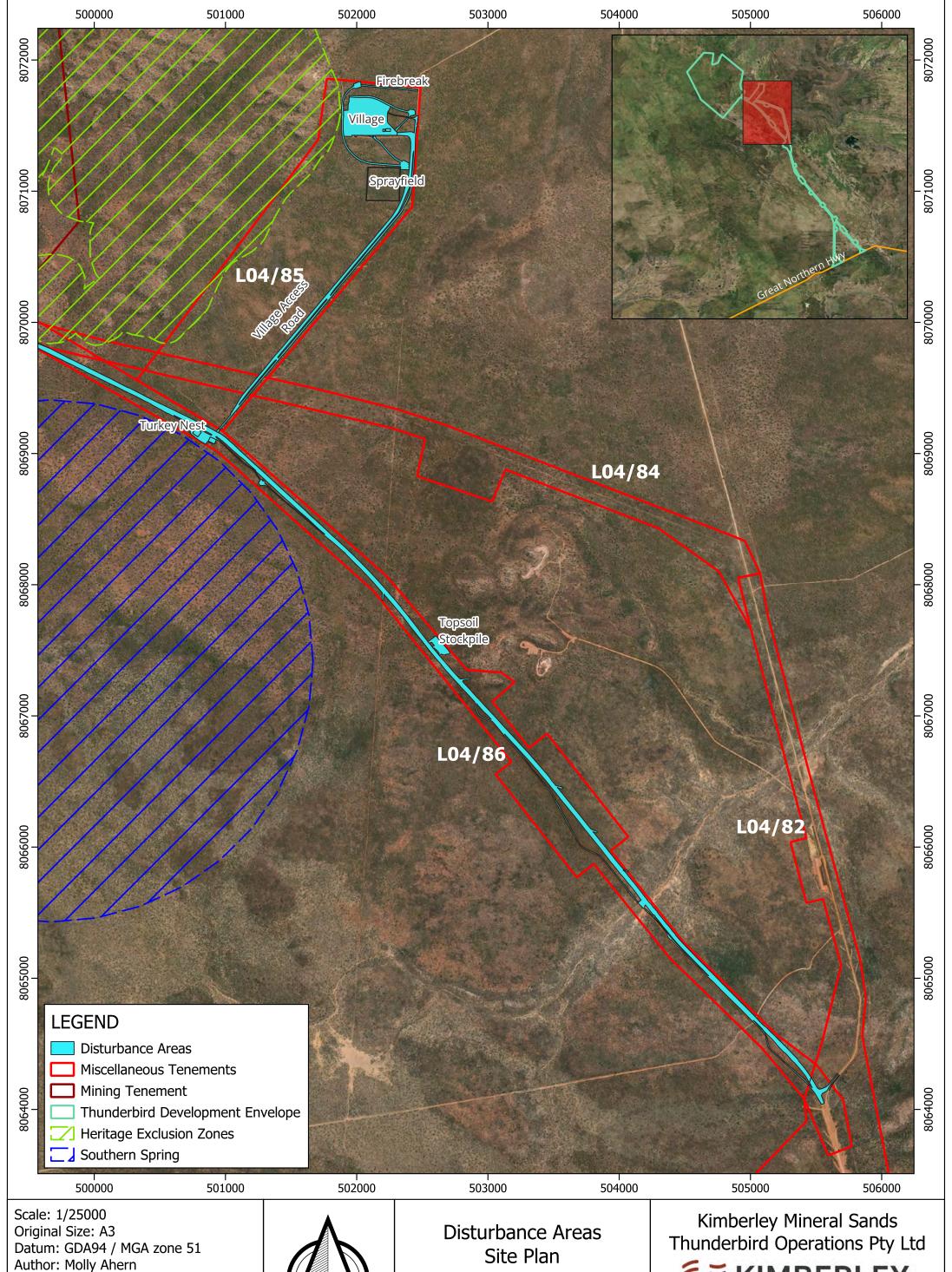
Date: 28/05/2024

0 250 500 m



June 2024 L04/85 Detail





Date: 28/05/2024

0 0.5 1 km

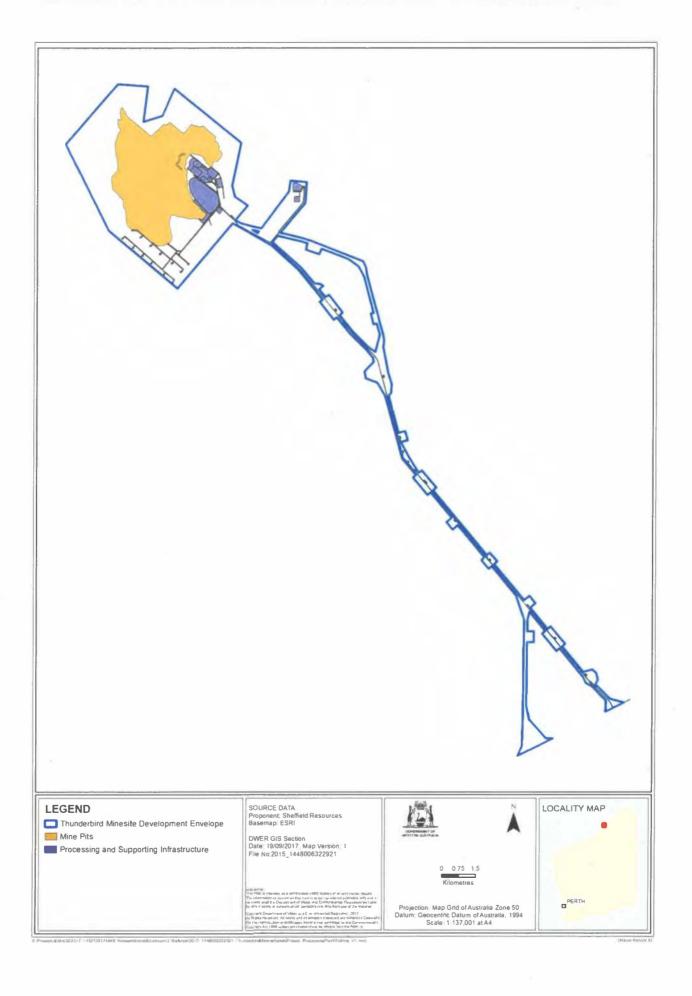


June 2024 L04/85, L04/86 Detail





6.2 Appendix B: Thunderbird Minesite Development Envelope Site Plan





6.3	Appendix C:	Thunderbird O	perations - Area	of Disturbance	Records

PTC#	Date Cleared	Tenement	Site Description	Permit Area (ha)	L04/82	L04/83	L04/84	L04/85	L04/86	L04/92	L04/93	M04/459 Infrastructur e	M04/459 Mining Area	E04/129	Permit AOD Total	POW AOE Total
POW#58560	24/02/2016	L04/86	Drill Access Track (Original MAR)						5 270	d Areas (ha)						
POW #58560	24/02/2016	M04/459	Drill Access Track (Original MAR)	11/4								2.746				8.016
PTC007 Audit	1/07/2023	L04/82	Mine Access Road (MAR) - 2023 Audit	N/A	0.172										2.496	
PTC007 Audit	1/07/2023	L04/86	mine receip man (many - 2023 rusis						2.324						1.450	
POW#PTC0001	1/12/2017	L04/85	60 person Village - Stage 1	10				2.614								2.614
POW#PTC0002	1/12/2017	L04/85	60 person Village - Stage 1	N/A				0.121								0.121
POW#PTC0003 PTC0003 Audit	1/11/2017	L04/85 L04/85	Village Road - Stage 1 - POW Village Road - Stage 1 - 2023 Audit	N/A				2.84 0.797								2.84
PTC0003 Audit PTC0003 Audit	1/07/2023	L04/85 L04/86	Village Road - Stage 1 - 2023 Audit Village Road - Stage 1 - 2023 Audit	N/A				0.797	0.125						0.922	
POW#PTC0004	1/04/2018	L04/86	MAR Turkey Nest 1	N/A					0.202							0.202
POW#PTC0005	1/04/2018	L04/86	MAR Turkey Nest 2						0.1							0.1
PTC0005	1/07/2023	L04/86	MAR Turkey Nest 2 - 2023 Audit	N/A					0.111						0.111	
POW#PTC0006	1/04/2018	L04/86	Mine Access Road (MAR) turn around	N/A					0.11							0.11
POW#PTC0006	1/07/2023	L04/86	Mine Access Road (MAR) turn around - 2023 Audit	14/4					0.004						0.004	
PTC0008	1/07/2018	L04/86	Borrow Pit 1	0.65					0.492						0.492	
PTC0009		L04/86	Laydown area for mobile batching plant	0.69					0.751						0.751	
PTC0010	1/09/2018	L04/85	WWTP Sprayfield fence boundary	0.5				0.4							0.4	
PTC0011		L04/86	Extension to Borrow pit 1	0.5					0.473						0.473	
PTC0012 PTC0013	10/09/2018	L04/86 M04/459	Checking for gravels along MAR Trial mining programme safety bunds	Unknown 9.74									8.616		8.616	
PTC0014	20/10/2020	M04/459 L04/86	Gravel Investigations	0.67					0				8.b1b		8.616	
PTC0015	30/10/2020	L04/86	Spoon drains for MAR	Unknown					0						0	
PTC0016	1/06/2021	M04/459	Trial Mining V2	5.96									5.769		5.769	
PTC0017		L04/82	Re-clear of mine access road	N/A re-clear	0										0	
PTC0018	NOT ISSUED	L04/86	MAR S-Bends	0					0						0	
PTC0019	NOT ISSUED	L04/85	Village Access Road	0					0						0	
PTC0020	11/08/2021	L04/82	New MAR alignment Y junction to fraser	8.2	0.553										6.645	
PTC0020		L04/86	New MAR alignment Y junction to fraser						6.092							
PTC0021	7/08/2021	M04/459	S ways to Kilto fire break maintenance	N/A re-clear								0			0	
PTC0022	5/08/2021	M04/459	Northern Bore rd fire break maintenance	N/A re-clear								0			0	
PTC0023		L04/85	Existing road from homestead to village fire break maintenance	N/A re-clear				0							0	
PTC0024	9/08/2021	L04/85	Village Fire break Maintenance	N/A re-clear				0							0	
PTC0025		L04/86	New MAR Alignment Fraser river to village	18					15.579						15.579	
PTC0026 PTC0026		L04/84	New MAR Alignment Village road to plant site New MAR Alignment Village road to plant site	16.7			1.11								15.467	
PTC0026 PTC0026	18/08/2021	L04/86 M04/459	New MAR Alignment Village road to plant site New MAR Alignment Village road to plant site	20.7					4.466			9.891				
PTC0020	NOT ISSUED	M04/459	Start of Borefield Track	0								0			0	
PTC0028	NOT ISSUED	M04/459	Borefield Track - MAR to Central Rd	0								0			0	
PTC0029	18/09/2021	M04/459	Access track for production bores TPB03 and 15 and monitoring bores TMB11 and 12	1.6								0			0	
PTC0030	18/09/2021	M04/459	monitoring bores TMB11 and 12 Drill pads for production bores TPB03 and 15 and monitoring bores TMB11 and 12	0.3								0.269			0.269	
PTC0031	8/09/2021	M04/459	Topsoil storage area and access track	3.1								3.067			3.067	
PTC0032	4/09/2021	M04/459	Vegetation stockpile area within the TSF footprint to store vegetation from roads	1.1								1.098			1.098	
PTC0033	9/10/2021	M04/459	Partial clearing of the plant site and access	11								9.989			9.989	
PTC0034	16/10/2021	M04/459	Northern gravel occurrence. Soil investigation using 22 test pits to a maximum of 2.5 mBGL.	0.2									0		0	
PTC0035	22/10/2021	M04/459	Northern gravel occurrence. Progressive excavation of pindan and gravels for MAR construction	0									6.172		6.172	
PTC0036	17/10/2021	M04/459	Diversion bund part 1 of 2 for site drainage	11								9.252			9.252	
PTC0037		L04/86	MBE road clearing connecting meteorstone to new MAR	0.068					0.086						0.086	
PTC0038	21/10/2021	L04/86	Fraser river laydown area for culvert installation	0.16					0.124						0.124	
	29/10/2021	M04/459 M04/459	Diversion bund part 2 of 2 for site drainage Northern gravel occurrence. Progressive excavation of pindan	1.48	*Combine witi							1.426			1.426	
PTC0040 PTC0041	29/10/2021	M04/459 M04/459	and gravels for MAR construction Spoon drains along MAR	0.7	*Combine with	N PTCDUSS						0.497			0.497	
PTC0041	6/11/2021	M04/459 L04/85	300 person village	10.9				8.887				0.497			8.887	
PTC0043		M04/459	Extension to existing topsoil storage area (PTC0031) for	6								5.826			5.826	
PTC0044	10/11/2021	M04/459	additional toosoil storage capacity Northern gravel occurrence. Progressive excavation of pindan	6.8									6.118		6.118	
PTC0045	30/11/2021	M04/459	and gravels for MAR construction Construction water pipeline and access track	8.23								8.499			8.499	
PTC0046	NOT ISSUED	M04/459	Borefield Pipeline Road	0											0	
PTC0047	18/11/2021	L04/82	Logue Culvert Stream Training	0	0											
PTC0047	18/11/2021	L04/86	Fraser Culvert Stream Training	0					0						0	
PTC0048	17/12/2021	L04/86	Spoon drains along MAR	0.37					0.22						0.22	
PTC0049	10/02/2022	M04/459	Extension to Turkey nest area for machine access and fire break Extension to existing KMS gravel pit to win gravels for village	0.1								0.141			0.141	
PTC0050	9/02/2022	L04/86	CONSCIUCTION	0.037					0.11						0.11	
PTC0051	10/02/2022	M04/459	Diversion of existing water corridor due to TSF design change	0.74								0.77			0.77	
PTC0052	22/02/2022	M04/459	Plant site comms tower	0.48								0.412			0.412	
PTC0053	22/02/2022	M04/459	LOM Landfill	8.73								3.997	6.671		3.997	
PTC0054	10/03/2022	M04/459	Southern Gravel Borrow pit, stage 1 clearing Linen shed, dry mess maintenance track, drains and north pad	6.98 0.898				0.706					6.871		6.871 0.706	
PTC0055 PTC0056	22/03/2022	L04/85 M04/459	extension Create 1 way track between southern occurrence and plant	0.898				U.706				0.186	0.925		0.706	
PTC0056		MU4/459 LO4/85	Access track to village WWTP	0.223				0.208				0.180	0.325		0.208	
PTC0057	8/04/2022	M04/459	Access track to village WW1P Southern Gravel Borrow pit, stage 2 clearing	8.49				W.208					8.439		8.439	
		M04/459	Southern Gravel Stage 3	2.17									2.126		2.126	
PTC0060	26/04/2022	M04/459	Process Plant Extension B	14.36								14.652			14.652	
PTC0061		L04/82	Upgrade Mt Jolaenga Intersection	0.46	0.425										0.425	
PTC0062	18/03/2022	L04/85	Village culvert realignment	0.0166				0.019							0.019	
PTC0063		L04/85	New Village access road	5.7				5.415							5.415	
PTC0064	25/04/2022	L04/82	Haul Road main gate turnaround	N/A re-clear	0										0	
PTC0065	18/05/2022	M04/459	Borefield road extension and pad installation	4.458								3.33			3.33	
PTC0066	11/05/2022	M04/459	Required to construct separated road for moxy access to southern occurrence	0.1									0.054		0.054	
PTC0067		M04/459	Process Plant Extension C	8.08								7.154			8.645	
PTC0067rev1		M04/459	Process Plant Extension C	2.1								1.491				
PTC0068		L04/85	Village sediment traps and drainage	1.33				0.381							0.381	
PTC0069		L04/85	New Village road culvert installation	0.14				0.125							0.125	
PTC0070		M04/459	TSF Stage 1, fence line, bore access and stockpile area	10.02								9.661			9.661	
		M04/459	TSF construction and access roads	10.3								9.878			9.878	
PTC0072		M04/459	SSP construction	12.2								11.658			11.658	
PTC0073		M04/459	Borefield realignment for flood mitigation	5.66								5.306			5.306	
PTC0074	8/07/2022	M04/459 M04/459	SW portion of SSP TSF construction offices and laydown yard	12.4								12.384			12.384	
1700075	9 (07 (2022		run construction offices and saydown yard	1.87	1							1.758			1.758	ı
PTC0075	8/07/2022 25/07/2022	M04/459 M04/459	Clearing for grade control drilling	14.3									13.778		13.778	

PTC0078	15/07/2022	M04/459	Re-alignment of borefield road	2.68						2.307			2.307	1
PTC0078	15/07/2022	M04/459 M04/459	Re-alignment of borefield road NF SSP Clearing	2.68						15.216			15.216	П
TC0080	15/07/2022	M04/459	NE corner of TSF	12.8						12.776			12.776	
TC0081	15/07/2022	M04/459	NW corner of TSF	16.2						16.776			16.283	
										39.767				Н
rC0082	26/07/2022	M04/459	Centre Portion of TSF	39.8									39.767	
C0083	28/07/2022	M04/459	Widening Borefield road	1.49						1.484			1.484	ш
rC0084	28/07/2022	L04/85	Culverts installation	0.132			0.187						0.187	
TC0085	NOT ISSUED	M04/459	Process Plant Spray Field	0						0			0	L
TC0086	15/08/2022	M04/459	Borefield Southern Diversion Drain	6.1						5.949			5.949	
TC0087	5/08/2022	M04/459	South eastern corner of TSF	12.8						12.788			12.788	
TC0088	5/08/2022	L04/85	Village culvert and additional VAR clearing	0.056			0.11						0.11	
TC0089	23/08/2022	M04/459	TSF Diversion Drain	6.93						6.443			6.443	Г
TC0090	23/08/2022	M04/459	TSF stage 11 embankments	3.89						3.889			3.889	ı
TC0091	8/09/2022	M04/459	Plant Site to TSF Corridor	0.61						0.574			0.574	Ī
TC0092	8/09/2022	M04/459	Temporary comms corridor through TSF stage 11	0.23						0.178			0.178	L
TC0093	13/09/2022	M04/459	Rorefield Parl Drainage	0.47						0.423			0.423	t
TC0094	13/09/2022	M04/459	Stage 1 of MUP road	0.61						0.427	0.105		0.532	L
TC0094	5/10/2022	M04/459	Borefield RMU Pads	0.28						0.312	0.103		0.312	٠
														H
TC0096	13/10/2022	M04/459	TSF Monitoring Bore Pads	0.3						0.252			0.252	1
TC0097	14/10/2022	M04/459	Northern Diversion Drain Stilling Basin	0.73						0.687	0.010		0.6964	L
TC0098	20/11/2022	M04/459	Work zones around SSP walls	1						0.904			0.904	
TC0099	15/10/2022	M04/459	MUP road stage 2	0.84							0.861		0.861	1
TC0099 rev1	20/01/2023	M04/459	MUP Road Stage 2b	0.1							0.059		0.059	1
TC0100	11/11/2022	M04/459	MUP road stage 3	4.93						0.098	4.525		4.623	
TC0101	24/10/2022	M04/459	Southern Occurrence stage 4 test pits	0.47							0.349		0.349	1
TC0102	11/11/2022	M04/459	One way track SO to TSF	1.27						0.66	0.571		1.231	L
TC0103	25/11/2022	M04/459	Stage 11 of TSF	14.4						15.467			15.467	٠
TC0104	20/01/2023	M04/459	MUP Stage 4	0.37						23.407	0.402		0.402	L
TC0105	27/03/2023	M04/459	TSF Skid Pad	0.068						0.067	0.402		0.067	Ł
										0.067				L
TC0106	30/03/2023	M04/459	MUP Booster Pad & Corner Ext	0.232							0.229		0.229	
TC0107	6/04/2023	M04/459	MUP Booster Pad Extension	0.020						0.003	0.017		0.02	L
TC0108	4/05/2023	M04/459	MUP RMU Pad	0.001							0.001		0.001	
TC0109	2/06/2023	M04/459	Carey Mining Week 1 - Stockpile and Access	10.53							10.25		10.25	
TC0110	13/06/2023	M04/459	Carey Mining Week 2 - Access Road and Starter Pit	7.584							7.285		7.285	1
TC0111	15/06/2023	M04/459	TSF Skid Pad Extension	0.072						0.07			0.07	П
TC0112	21/07/2023	M04/459	Carey Mining Week 3 - Pit and Topsoil Dumps #2	2.244							1.972		1.972	L
TC0113	20/07/2023	M04/459	Carey Laydown	2.194						2.033	0.006		2.039	t
TC0114	16/07/2023	L04/82	GNH Intersection Upgrade	0.608	0.608								0.608	h
TC0115	18/09/2023	M04/459	SO Access Road Widening	0.353							0.347		0.347	٠
	30/08/2023	M04/459	MUP Services Infrastructure	0.832							0.752		0.752	H
TC0116											0.752			٠
TC0117	7/09/2023	M04/459	Turkey Nest piping and Road corridor	1.111						1.056			1.056	L
NX580	13/09/2023	L04/8S	Diesel Spill Cleanup	N/A			0.021						0.021	
TC0119	4/10/2023	M04/459	T1 Oversized Stockpile	1.84							1.84		1.84	L
TC0118	11/10/2023	M04/459	Power Station & Landfill fire breaks	1.472						1.383			1.8	1
TC0118	12/10/2023	L04/85	Village and Sprayfield fire breaks	1.236			0.417						1.0	
NX730	18/10/2023	M04/459	Fire Breaks	N/A						9.818	0.273		10.091	1
TC0122	30/10/2023	M04/459	MUP Turkey Nest	0.225							0.201		0.201	L
TC0120	18/12/2023	M04/459	Oversized Stockpiles	7.774							7.262		7.262	f
TC0121	21/12/2023	M04/459	North Pit	3.25							0.82		0.82	L
TC0121 v2	4/01/2023	M04/459	North Pit v2	2.435							2.435		2.435	f
	4/01/2023	M04/459 M04/459	Mining Topsoil Blocks 2	12.577							12.105		12.105	۱
TC0123														L
TC0124	11/02/2024	M04/459	Mining Blocks	10.328							10.062		10.062	L
TC0125	FUTURE	M04/459	Landfill Stage 2	4.716						4.716			4.716	
TC0126	NOT ISSUED	L04/86	Village T function	0.387									0	
TC0127	3/05/2024	M04/459	Oversized North	17.7							17.085		17.085	1
TC0128	24/04/2024	M04/459	Mining Haul Road	7.04							6.781		6.781	ſ
TC0129	19/04/2024	M04/459	Mining Block Stage 4	8.67							8.542		8.542	L
TC0130	29/04/2024	M04/459	Exploration Drilling Tracks	12							9.666		9.666	Г
TC0131	13/05/2024	M04/459	North Pit	6.07							5.923		5.923	١
TC0128 v2	23/03/2024	M04/459	Haul Road extension	0.0139							2323		0	Ł
		mU4/459	neur noeu exténsion	0.0139									0	H
TC0132														L
TC0133														L
													0	П
TC0134					1.76	1.11	23.25	36.64		291.35	169.60	1.05	523.71	t





6.4 Appendix D: Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy Approval Letter (2018)

Mr Wayne Groeneveld Sustainability Manager Thunderbird Operations Pty Ltd PO Box 205 WEST PERTH WA 6872

Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy

Dear Mr Groeneveld

Thank you for submitting the Terrestrial Fauna Environmental Management Plan and Offset Strategy in accordance with Conditions 2 and 3 of the *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act) approval for EPBC 2016/7648.

Officers of this Department have advised me on the above, and the requirements of Conditions 2 and 3 of the approval for EPBC 2016/7648. On this basis, and as a delegate of the Minister for the Environment and Energy, I have decided to approve:

- the Terrestrial Fauna Environmental Management Plan, Version 5, dated 24
 October 2018 as meeting the requirements of Condition 2 of the approval; and
- the Offset Strategy, dated 13 November 2018 as meeting the requirements of Condition 3 of the approval.

The approved Plan and Strategy must now be implemented.

Please note that the conditions of approval for EPBC 2016/7648 require, unless otherwise agreed in writing by the Minister, that the approved Plan and Strategy be published on your website within one month of the date of this approval.

The Department has an active monitoring program which includes monitoring inspections, and desktop document reviews and audits. Please ensure that you maintain accurate records of all activities associated with the conditions of approval, including implementation of the approved Plan and Strategy, so that they can be made available to the Department on request.

Should you require further information regarding my decision please contact Vaughn Cox on 02 6274 2005, or by email: post.approvals@environment.gov.au.

Yours sincerely

Greg Manning Assistant Secretary

Assessments (WA, SA, NT) & Post Approvals Branch

Environment Standards Division

20November 2018

6.5 Appendix E: Permit to Clear Example

Document Reference: TOPL-ENV-**405-PMT** Version No: 07 Rev Date: 20/7/2023 Next Revision: 1/1/2024

TOPL PERMIT TO CLEAR

This form must be completed by the Permit Owner, signed by the Site Senior Executive or delegate and then emailed to the



no weed affected soil, mulch or fill is

introduced

Electronic Version Current: Uncontrolled copy valid only

Printed: 31/1/2024 2:33 pm

Environmental Team along with the clearing JHA before any area of soil or vegetation is disturbed. Once clearing has finished, permits must be completed and hard copies given to the Environmental Team for filing. Permit Owner (KMS): Mark-Bevan Issued Date: 21/01/24 Permit Expiry Date: 04/02/24 Description of location and tenement: Attach Map Location Grid Co-ordinates (GDA only): Northwest of the Current Mining Area 495017 mE 8073956 mN Temporary (<3 months) or Permanent Purpose of the clearing: Clear space for the topsoil and vegetation stockpile Permanent (>3 months): Current clearing on tenement (ha): 175.13 Approved clearing allowance on tenement (ha): 233.46 Is this land use approved on this tenement? Yes Land use: Topsoil Stockpiles & Transport Estimated area to be cleared (ha): 12.58 Actual area cleared (ha): Proposed start date: 22/01/24 Proposed completion date: 29/01/24 Actual start date: Actual completion date: 1/2/24 2 24 Topsoil volume (m³): 25160 How will the area be marked out prior to clearing? 2000 m³ per ha GPS in machinery, survey to flag boundary, continuous flags at corners at min. CHECKS PRIOR TO COMMENCING CLEARING PROCEDURE ITEM ITEM Take photos of area PRE-CLEARANCE Has TOPL-ENV-PRO Land Clearing Procedure Has proposed clearing been kept to a for rehabilitation purposes been referred to and followed? minimum and avoided marked trees? Check topsoil is dry and mark out area Complete a JHA Has the proposed clearing area been Has the permit been signed and Walk the dozer around any boundaries compared against tenement boundaries, approved prior to commencing Clear and stockpile vegetation development envelope and clearing clearing? allowances? Clear and stockpile topsoil (up to 2 m high, single level, paddock dumped stockpiles) Is the Bilby pre-clearance survey completed Has the area been clearly marked out Store stockpiles away from traffic for for this area? Attach evidence prior to clearing? rehabilitation purposes To reduce weed invasion, ensure that

clearance survey? Attach evidence Please answer these questions:

Where will the topsoil be stockpiled?

Have Heritage Monitors completed a pre-

No topsoil removal from stockpile areas, topsoil from road clearing will be placed on topsoil location cleared in this permit

Do operators understand the clearing

Topsoil to be removed and stockpiled (paddock dumped) no greater than 2m high. DO NOT DRIVE ON TOPSOIL STOCKPILES.

required?

Where will the vegetation be stockpiled?

Vegetation stockpiles placed on stockpile areas clearing within this permit

Separate vegetation and topsoil stockpiles.

Cost \$\$ - Have you considered the rehabilitation and ongoing costs to Thunderbird and whether this clearing necessary?

~\$48,000 to \$1,350,000 per hectare to rehabilitate cleared land at Thunderbird. Ongoing MRF Annual Levy cost of \$200/hectare.

Permit to Clear Conditions/Comments:

A Heritage Exclusion Zone is present to the north of the clearing boundary - 20m at the closest point. Extreme caution is to be taken with the clearing of this permit, to such a point that a spotter must be present during clearing along the northern edge. GPS file must be loaded into the machine prior to clearing and calibrated/checked prior to commencement. Permit Owner must walk entire clearing boundary and all sign-offs completed beforehand. No vegetation is to be pushed outside of clearing boundary. Continuous flagging installed at corners at minimum. Bilby pre-clearance completed on the 20/01/24, this permit expires on the 04/02/24.

Bilby and Heritage Pre-Clearance Survey Evidence Attached: ROLE **FULL NAME** SIGNATURE DATE **Environmental Advisor** Molly Ahern 21/01/2024 Approvals to be signed PRIOR to clearing ROLE **FULL NAME** Permit Owner -Mark-Bevan WALTER Machinery Operator #1 SCOTT Machinery Operator #2 Contractor Superintendent DURCAU Site Senior Executive

Thunderbird Mineral Sands Project



6.6 Appendix F: Greater Bilby Survey Summary

Current Area	Accepiated DTC	Curvoy Data	Survey C	oordinates	Area to Clear (ha)	Area Survoyed (ha)	Habitat Surveys	Fauna Recording	Bilby Activity
Survey Area	Associated PTC	Survey Date	Easting	Northing	Area to Glear (IIa)	Area Surveyed (ha)	Complete	Complete	Observed
Mining Wk 1	PTC0109	2/06/2023	496456	8073486	10.38	15.20	YES	YES	NO
Mining Schedule Wk1-3	PTC0110	9/06/2023	495872	8073500	5.52	12.70	YES	YES	NO
TSF Skid Pad Ext	PTC0111	9/06/2023	497415	8071907	0.07	0.50	YES	YES	NO
Mining Topsoil Stockpiles 2	PTC0112	9/07/2023	496965	8073777	2.24	4.50	YES	YES	NO
Carey Laydown	PTC0113	9/07/2023	497355	8072895	2.24	2.50	YES	YES	NO
GNH Upgrade	PTC0114	11/07/2023	515606	8048568	3.29	11.80	YES	YES	NO
MUP Turkey Nest	PTC0117	25/08/2023	497049	8073013	0.84	1.37	YES	YES	NO
M2 Road	PTC0116	27/08/2023	495873	8073372	0.75	0.75	YES	YES	NO
MUP Turkey Nest	PTC0117	3/09/2023	496993	8073054	1.11	2.01	YES	YES	NO
SO Widening	PTC0115	17/09/2023	495931	8073322	0.35	0.68	YES	YES	NO
SO Widening	PTC0115	17/09/2023	495931	8073322	0.35	0.68	YES	YES	NO
T1 Oversized	PTC0119	2/10/2023	496170	8073791	1.84	1.84	YES	YES	NO
Oversized Stockpile	PTC0120	12/10/2023	496044	8074053	7.77	9.50	YES	YES	NO
MUP Turkey Nest Ext.	PTC0122	23/10/2023	496870	8073157	0.23	0.50	YES	YES	NO
Landfill Firebreak	PTC0118	9/11/2023	498219	8071954	1.15	2.68	YES	YES	NO
Power Plant Firebreak	PTC0118	9/11/2023	497685	8072212	0.33	0.79	YES	YES	NO
Village Firebreak	PTC0118	11/11/2023	502252	8071787	0.53	1.36	YES	YES	NO
Oversized Stockpile	PTC0120	17/12/2023	496044	8074053	7.77	9.77	YES	YES	NO
North Pit	PTC0121	17/12/2023	495812	8073864	3.25	3.85	YES	YES	NO
North Pit v2	PT0121 v2	4/01/2024	495814	8073870	2.44	2.44	YES	YES	NO
Mining Topsoil Block 2	PTC0123	20/01/2024	495033	8073912	12.58	18.52	YES	YES	NO
Mining Blocks	PTC0124	7/02/2024	495375	8073645	15.39	18.20	YES	YES	NO





6.7 Appendix G: Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy Approval Letter (2020)



Department of Agriculture, Water and the Environment

Mr Stuart Pether Chief Operating Officer Thunderbird Operations Pty Ltd PO Box 205 WEST PERTH WA 6872

Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy

Dear Mr Pether

Thank you for submitting the revised Offset Strategy for approval in accordance with condition 11C of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval EPBC 2016/7648.

Officers of the Department have advised me on the revised strategy and on the requirements of the EPBC Act conditions of approval for this project. On this basis, and as a delegate of the Minister for the Environment, I have decided to approve the Offset Strategy, Rev 1, dated 8 September 2020. The approved strategy must now be implemented in place of the strategy originally approved on 20 November 2018.

As you are aware, the Department has an active monitoring program which includes monitoring inspections, desk top document reviews and audits. Please ensure that you maintain accurate records of all activities associated with, or relevant to, the conditions of approval including the implementation of the approved Offset Strategy, so that they may be made available to the Department on request.

Should you require any further information please contact Thomas Smith at Thomas. Smith@awe.gov.au or postapproval@awe.gov.au.

Yours sincerely

Dwaine Maugh

Director, Post Approvals

Environment Assessments (Vic, Tas) and Post Approvals Branch

7 October 2020

EPBC 2016/7648 Annual Compliance Report 2023 Thunderbird Mineral Sands Project



6.8	Appendix H:	Ministerial Statement 1080 Thunderbird Mineral Sands Project, Condition	'n
	10 - Greater	Bilby Research and Conservation Plan Submission	



Level 2, 41-47 Colin Street West Perth WA 6005 PO Box 205, West Perth WA 6872

> P: +61 8 6555 8701 W: kmsands.com.au

KMS Reference: DWER Letter_Thunderbird Project GBRCP_17042023

17 April 2023

Senior Manager
Environmental Compliance
Compliance and Enforcement
Department of Water and Environmental Regulation

By email: compliance@dwer.wa.gov.au

Attention: Senior Manager, Environmental Compliance

RE: Ministerial Statement 1080 THUNDERBIRD MINERAL SANDS PROJECT, Condition 10 – Greater Bilby Research and Conservation Plan Submission

On behalf of Thunderbird Operations Pty Ltd ('TOPL'), I am writing to formally submit the Greater Bilby Research and Conservation Plan ('GBRCP') in accordance with Condition 10 of Ministerial Statement 1080 (MS1080).

TOPL's correspondence to the Department of Water and Environmental Regulation (DWER) on 8 November 2022, provided an update on the Thunderbird Mineral Sands Project ('the Project') and confirmed the 'substantial commencement' date for the purposes of MS1080 of 7 October 2022 being the date the Financial Investment Decision for the Project was announced. Further to this correspondence, a meeting was then held with representatives of DWER and the Department of Climate Change, Energy, the Environment and Water (DCCEEW) and TOPL via Teams on 16 March 2023. The purpose of the meeting was to specifically discuss the GBRCP and its interrelationship with Greater Bilby offset requirements under EPBC Act Approval 2016/7648 for the Project.

The GBRCP has been prepared in accordance with the outcomes of this meeting. In short, it was agreed that due to the need to further revise the already approved Offset Strategy under EPBC Act Approval 2016/7648, the revised Offset Strategy would satisfy the MS1080 condition 10 requirement for a GBRCP. The Offset Strategy was originally approved on 12 September 2018 with a revised version approved on 7 October 2020. The combining of the Offset Strategy and GBRCP is also in the interests of harmonisation of the ongoing implementation of approval conditions, consistent with the principles of the Bilateral Assessment undertaken for the Project. It was also agreed in the meeting that in TOPL submitting the combined GBRCP/revised Offset Strategy to DWER, copy DCCEEW, that DWER would also coordinate with DCCEEW to align approval of the document for the purposes of both MS1080 and EPBC Act Approval 2016/70648.

TOPL subsequently advised via email on 27 March 2023 that due to the timing of availability of revised mine plan information, the GBRCP would instead be submitted on 17 April 2023 rather than the previously advised date of early April 2023.

If you have any questions regarding this letter and the attached GBRCP, please do not hesitate to contact Gayle Williams on 043 8189 286 or gayle@envirominded.pro.

Yours sincerely

Michael Rose

Chief Operating Officer Kimberley Mineral Sands

Cc: DCCEEW - Director, Post Approvals Section

Thunderbird Mineral Sands Project



6.9 Appendix I: Example Proof of Payment to Greater Bilby Offset Fund



NAB Business Cash Maximiser

For further information call 13 22 65 for Personal Accounts or 13 10 12 for Business Accounts.

THUNDERBIRD OPERATIONS PTY LTD PO BOX 205 WEST PERTH WA 6872

Account Balance Summary

Opening balance \$993,113.68 Cr Total credits \$5,939.03 Total debits \$0.00 Closing balance \$999,052.71 Cr

Statement starts 1 March 2024 Statement ends 28 March 2024

Outlet Details

Murray Street Murray Street Mall, 239 Murray Street Mall Perth WA 6000

Account Details

THUNDERBIRD OPERATIONS PTY LTD BUS CASH MAXIMISER

086-027 BSB number Account number 41-968-4966

Transaction Details

Date	Particulars	Debits	Credits	Balance
1 Mar 2024	Brought forward			993 , 113.68 Cr
1 Mar 2024	As At 01/03/2024 Your Variable Cr Interest Rate Is 1.80	0%		
	When Your Balance Is \$10,000 or More			993,113.68 Cr
27 Mar 2024	Jan-Mar Bilby Offs T Hunder Oper		4,567.50	997,681.18 Cr
28 Mar 2024	Interest		1,371.53	999 , 052 . 71 Cr

Summary of Government Charges

Government Withholding tax \$0.00 \$0.00 Bank Account Debit (BAD) tax \$0.00 \$0.00 Bank Accounts Debits (BAD) Tax or State Debits Duty has been abolished for all states & territories effective 1/7/2005. Any amount shown on this statement applies to debits processed on or before 30/06/2005. For further information on any applicable rebates, fees or government charges, please refer to the NAB's "A Guide to Fees & Charges" booklet. Please retain this statement for taxation purposes

From 1 July

to date

Explanatory Notes

Please check all entries and report any apparent error or possible unauthorised transaction immediately.

We may subsequently adjust debits and credits, which may result in a change to your account balance to accurately reflect the obligations between us.

For information on resolving problems or disputes, contact us on 1800 152 015, or ask at any NAB branch.

Last year

to 30 June



NAB Business Cash Maximiser

For further information call 13 22 65 for Personal Accounts or 13 10 12 for Business Accounts.

THUNDERBIRD OPERATIONS PTY LTD PO BOX 205 WEST PERTH WA 6872

Account Balance Summary

Opening balance \$259,874.42 Cr Total credits \$77,767.63 Total debits \$0.00 Closing balance \$337,642.05 Cr

Statement starts 1 March 2024 Statement ends 28 March 2024

Outlet Details

Murray Street Murray Street Mall, 239 Murray Street Mall Perth WA 6000

Account Details

THUNDERBIRD OPERATIONS PTY LTD BUS CASH MAXIMISER

086-027 BSB number Account number 46-226-3972

Transaction Details

Date	Particulars	Debits	Credits	Balance
1 Mar 2024	Brought forward			259,874.42 Cr
1 Mar 2024	As At 01/03/2024 Your Variable Cr Interest Rate Is 1.8	800%		
	When Your Balance Is \$10,000 or More			259,874.42 Cr
27 Mar 2024	Jan-Mar Bilbygntee T Hunder Oper		77,404.98	337,279.40 Cr
28 Mar 2024	Interest		362.65	337,642.05 Cr

Summary of Government Charges

Government							
Withholding tax	\$0.00	\$0.00					
Bank Account Debit (BAD) tax	\$0.00	\$0.00					
Bank Accounts Debits (BAD) Tax or State Debits Duty has been abolished for all states & territories effective 1/7/2005. Any amount shown on this statement applies to debits processed on or before 30/06/2005.							
For further information on any applicable rebates, fees or government charges, please refer to the NAB's "A Guide to Fees & Charges" booklet. Please retain this statement for taxation purposes							

From 1 July

to date

Explanatory Notes

Please check all entries and report any apparent error or possible unauthorised transaction immediately.

We may subsequently adjust debits and credits, which may result in a change to your account balance to accurately reflect the obligations between us.

For information on resolving problems or disputes, contact us on 1800 152 015, or ask at any NAB branch.

Last year

to 30 June

EPBC 2016/7648 Annual Compliance Report 2023 Thunderbird Mineral Sands Project



6.10	Appendix J:	Commencement of the Action - Thunderbird Mineral Sands Project, W	Α,
	EPBC 2016/7648		



Ref: EPBC 2016/7648

Email: epbcmonitoring@awe.gov.au

Stuart Pether Chief Executive Officer Kimberley Mineral Sands Level 2, 41-47 Colin Street, WEST PERTH WA 6005

Dear Mr Pether,

Commencement of the Action – Thunderbird Mineral Sands Project, WA, EPBC 2016/7648

I refer to your letter on 16 December 2021 on behalf of Thunderbird Operations Pty Ltd notifying the Department of Agriculture, Water and the Environment (the department) of commencement of the action for Thunderbird Mineral Sands Project, WA in accordance with condition 6 of the *Environment Protection and Biodiversity Conservation Act 1999* (the Act) approval EPBC 2016/7648.

I note that the action commenced on 11 August 2021.

Condition 8 - Annual Compliance Reporting

Condition 8 of the approval states that the approval holder must prepare an Annual Compliance Report for each 12-month period preceding 30 June annually, following the commencement of the action. The approval holder must continue to publish each report and notify the Department of publication until the expiry of this approval on 30 June 2073. The reports must be published on the website by 30 June each year.

Please notify the department of publication of the reports by email, including a link to where the report is publicly available to epbcmonitoring@awe.gov.au. Please note the first Annual Compliance Report is due by 30 June 2022.

When preparing the report please refer to the department's Annual Compliance Report Guidelines available on the department's website at http://www.environment.gov.au/epbc/publications/annual-compliance-report-guidelines

I note that the notification of commencement was made outside the timeframe stipulated in condition 6 of the approval. I note that this delay may constitute a breach of section 142 of the EPBC Act. On this occasion, I consider it appropriate that no further compliance action is taken in response to this matter. This matter may be noted in your compliance history under the EPBC Act.

Please note that the conditions of approval require the approval holder to maintain accurate records of all activities associated with, or relevant to, the approval conditions so that they can be made available to the department on request. These documents may be

subject to audit and be used to verify compliance. Summaries of audits may be published by the department.

More information about the department's Monitoring and Audit program is available on the department's website at http://www.environment.gov.au/epbc/compliance-and-enforcement/auditing.

Section 142 of the Act requires an approval holder to comply with conditions attached to an approval. Penalties may apply to approval holders who contravene conditions.

If you would like to discuss this matter further, please contact Olivia Moore at epbcmonitoring@awe.gov.au

Yours sincerely,

Thomas Long

Assistant Director

Environmental Audit Section

18 January 2022



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6.11 Appendix K KPA Letter to KMS - EPBC Reporting



Your ref:

Our ref: TRA127/211427 Enquiries: Annie Delandro

Mitch Duley Environmental Superintendent Kimberley Mineral Sands 264 Port Drive Broome, WA 6725

Dear Mr. Duley

KIMBERLEY MINERAL SANDS - EPBC REPORTING

I am writing to you in response to Kimberley Mineral Sands (KMS) recent enquiry regarding the management controls implemented by Kimberley Ports Authority (KPA) to ensure the protection of cetaceans, namely Humpback Whales (Megaptera novaeangliae) in Port of Broome waters.

KPA is a Government Trading Enterprise under the *Port Authorities Act 1999* and has direct operational control of the Port of Broome/Port waters. In preparation for the upcoming Humpback whale migration along the Western Australian coastline, KPA has several measures to remind vessel operators of their responsibilities in ensuring the wellbeing and safety of whales in Port waters. These measures include but are not limited to:

- Issuing a Local Marine Notice with an attached Humpback Whale Migration bulletin outlining the actions to be taken in the event of an incident or hazard involving a Humpback Whale or any marine fauna.
- All large vessels are required to have a Marine Pilot licensed by KPA for their voyage from approximately 10 to 12 nautical miles (depending on the vessel size and Pilot boarding ground used) offshore into the Port of Broome.
- Recording any reported cetacean and marine fauna strikes in our Safety Management System.

In addition to the above, for certain projects, for example dredging & piling activities KPA utilises Marine Fauna Observers to monitor, record and respond as appropriate to the presence of marine mammals and other protected species.

I can confirm that to date, no cetacean or marine fauna strikes have been reported in Port waters by Kimberley Ports Authority vessels or Kimberley Mineral Sands contracted vessels.

Yours faithfully

Luke Westlake

CEO

29 MAY 2024



6.12 Appendix L KPA Environment Bulletin – Humpback Whale Migration

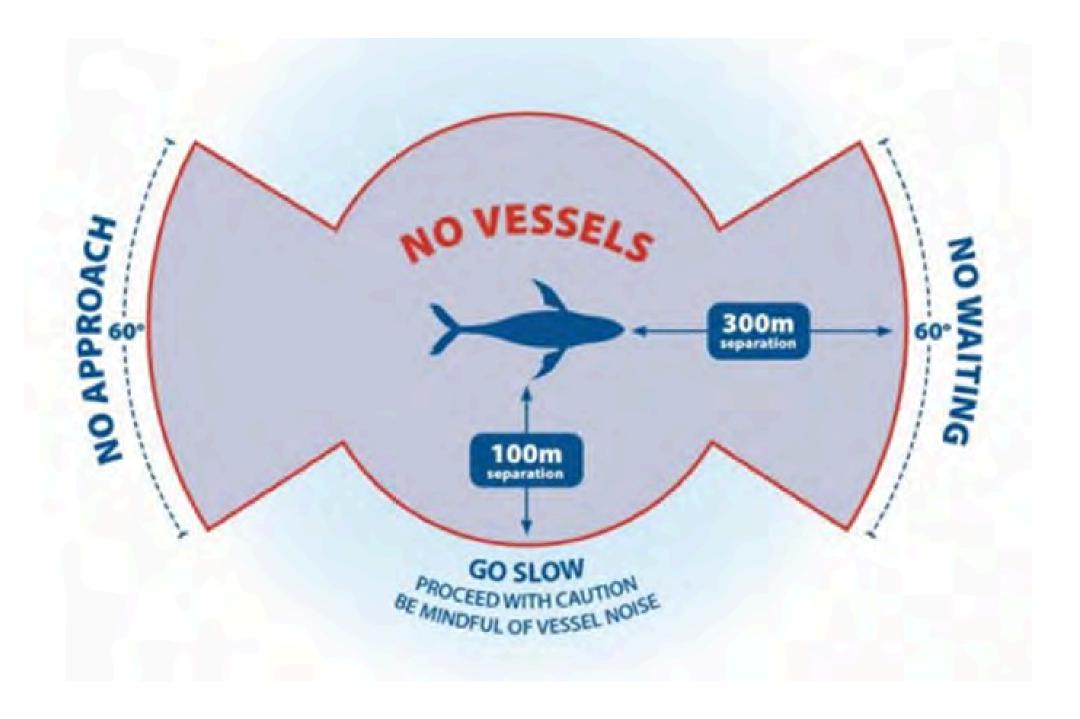


ENVIRONMENT BULLETIN

HUMPBACK WHALE MIGRATION – July to October

The Western Australian coastline is a known migration route for the Western Australian Humpback whale population. The migration occurs between July to October with their migration to breeding grounds in the Kimberley occurring between July and August and their southward migration back to the Antarctic feeding areas between August and October. Humpback whales typically travel along the coastline, sometimes swimming in waters as shallow as 200 meters during their migration.

Vessel operators are reminded to maintain a safe distance from whales of 100m from either side or 300m from in front.



These rules are designed to protect whales from an unacceptable level of impact from human activities.

What to do if there is an incident involving a Humpback Whale?

If your vessel is involved in an incident you are required to report the event to the Department of Biodiversity, Conservation and Attractions (DBCA) and to work with them to determine the best course of action.

Contact the **DBCA Wildcare Helpline** on **9474 9055** to report a sick, injured, or deceased whale or marine fauna.

If there is a hazard or incident involving a Humpback whale or **ANY** marine fauna in port waters, please contact <u>info@kimberleyports.wa.gov.au</u> and provide the following information (where possible):

- Time and exact location the marine fauna was encountered (provide coordinates if possible).
- Type of marine fauna and assumed maturity (i.e. juvenile or mature). Where sage and practicable, take photographs.
- Condition of the marine fauna, including physical condition (i.e. wounds etc.) and behavioural response (i.e. flighty, lethargic/non-responsive, etc.).
- If the marine fauna could pose a navigation hazard; and
- DBCA Wildcare incident report number (if applicable).



Kimberley Mineral Sands Pty Ltd ACN 623 201 507 | Thunderbird Operations Pty Ltd ACN 611 351 743

BROOME: 264 Port Drive, Broome WA 6725 | PO Box 1876, Broome WA 6725 | DERBY: 2 Clarendon Street, Derby WA 6728

PERTH: Level 2, 41-47 Colin Street, West Perth WA 6005 | PO Box 205, West Perth WA 6872

P: 1300 336 725 / +61 8 6555 8757 | W: kmsands.com.au

