EXAMPLE X KIMBERLEY MINERAL SANDS

EPBC 2016/7648 Annual Compliance Report July 1 2024 – June 30 2025



TABLE OF CONTENTS

1.	INTR	RODUCTION	3
	1.1	Project Overview	
	1.2	Objective	
	1.3	Scope 4	
2.	STAT	FEMENT OF COMPLIANCE	5
	2.1	Proposal and Proponent	
	2.2	Proponent Declaration	
3.	DESI	GNATIONS TO RECORD FINDINGS	6
	3.1	Assessment of Compliance 6	
4.	COM	IPLIANCE ASSESSMENT	7
	4.1	Audit Assessment	
	4.2	Definitions	
5.	REFE	RENCES	15
6.	APPE	ENDICES	16
	6.1	Appendix A: Greater Bilby Pre-Clearance Survey Areas16	
	6.2	Appendix B: Thunderbird Operations – Area of Disturbance Records	
	6.3 Envir	Appendix C: Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial F ronmental Management Plan and Offset Strategy Approval Letter (2018)	[:] auna
	6.4	Appendix D: Permit to Clear Example24	
	6.5	Appendix E: Greater Bilby Survey Summary26	
	6.6 Appr	Appendix F: Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Stra oval Letter (2020)	ategy
	6.7 Grea	Appendix G: Ministerial Statement 1080 Thunderbird Mineral Sands Project, Condition ter Bilby Research and Conservation Plan Submission	10 -
	6.8	Appendix H: Proof of Payment to Greater Bilby Offset Fund	
	6.9 Envir	Appendix I: Humpback Whale Migration – July to October; Kimberley Ports Auth ronment Bulletin	nority
		Appendix J: Commencement of the Action – Thunderbird Mineral Sands Project, WA, 5/7648	EPBC

EPBC 2016/7648 Annual Compliance Report 2024 Thunderbird Mineral Sands Project



FIGURES

Figure 1.	Locality Map	4
TABLES		
Table 1.	Company and Proposal Details	5
Table 2.	Compliance Status Terminology	6
Table 3.	Thunderbird Mineral Sands Project EPBC 2016/7648 Audit Assessment	7

AUTHORISATION

Revision Number	Reason for Issue	Prepared	Approved	Date
1	Requirement under EPBC	Micaela Green	Chris Cottier	30/06/2025



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 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, and a Coexistence Agreement is in place between Joombarn-buru traditional owners and the Thunderbird mine. 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
- Mine operations 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 to access 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



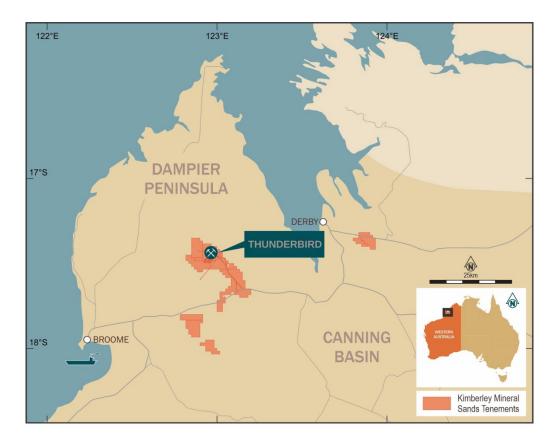


Figure 1. Locality Map

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 moved into operational phase, with the first shipment of product sent on 28 January 2024. The reporting period as covered by this report (1 July 2024 to 30 June 2025) has seen operations continue under EPBC Approval 2016/7648 including mining, processing and exporting of mineral sands (namely Zircon and Ilmenite).

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 2024 to 30 June 2025.



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	West 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	Chin batt
Full Name (please print)	Chris Cottier
Position (please print)	Manager Environment, Community & Public Relations
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	30/06/2025



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. Com	pliance 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 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 551.16 ha of land across the Thunderbird Development Envelope had been cleared (see Appendix A). Records are maintained via an 'Area of Disturbance' database which is regularly updated (Appendix B). 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; Greater Bilby Pre-Clearance Survey Areas Appendix B; 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 	Non-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 C). a) All clearing was conducted using internal permit to clear procedures (Appendix D), and in accordance with the Greater Bilby disturbance protocols stipulated within the Terrestrial Fauna Environmental Management Plan. All	

EPBC 2016/7648 Annual Compliance Report 2024 Thunderbird Mineral Sands Project



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.	Greater Bilby activity was recorded and documented in the internal Greater Bilby survey database (Appendix E) and through GIS Database.
The approval holder must not commence the action until the Minister has approved the TFEMP. The approved TFEMP must be implemented.	b) The Compliance Annual Report (CAR) documents compliance with the Western Australian Ministerial Approval (MS1080). The latest CAR covers the reporting period of August 10 th 2023 to August 9 th 2024, due on the 11 th November each year. As per the latest report, the Project was shown as being generally compliant with the MS1080 approval. With regards to conditions 6-1 to 6-8, all were reported within compliance with the exception of Condition 6-7
	Condition 6-7 states that: 'In the event of failure to implement management actions, the proponent shall meet the requirements in condition 4 (Compliance Reporting) and shall implement the measures outlined in the Plan, including, but not limited to, actions and investigations to be undertaken, and reporting to the CEO'
	The Management Action reported to be in non-compliance was 'Travel on the Site Access Road between dusk and dawn restricted to essential vehicles being product trucks or emergency vehicles'.
	Access to/from the Great Northern Highway to the Thunderbird Site Access Road is restricted via a boom gate and stationed with a 24/7 security guard. The security guard on duty records and notifies all vehicle's entering and exiting the site. A register is kept for any after-hours travel (exclusive of product trucks and emergency vehicles).
	After-hours travel occurred (with exception of that provided for under the action) in isolated events due to personnel procedural breach, as well as to urgent provide access / supplies due to safety concerns or for the management of critical infrastructure.
	The TFEMP is currently in review in order to expand the list of permitted vehicles to ensure the safe operation and management of critical infrastructure is maintained. A revision of the TFEMP at this time is a rational process as operational and logistical constraints have only just been realised as the Project has progressed into full operation. The amended TFEMP will be provided to DCCEEW along with DWER for review and comment.
	Supporting Documents:
	Appendix C; Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy Approval Letter (2018)
	Appendix D; Permit to Clear Example
	Appendix E; Greater Bilby Survey Summary



3	 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. 	Compliant	 The Offset Strategy for The Thunderbird Mineral Sands Project dated 13 October 2018 was approved by the Minister on 20 November 2018 (Appendix C). A revision to the Offset Strategy was approved on 7 October 2020 (Appendix C). A revision to the Offset Strategy was approved on 7 October 2020 (Appendix C). A revision to the Offset Strategy was submitted to DCCEEW and DWER on 17 April 2023 (Appendix G). 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. At the time of reporting, correspondence had been received from DWER requesting amendments to the document, however DCCEEW are yet to commend and the revised plan. Once revisions have been made in line with DWER recommendations the amended document will be provided to both DCCEEW and DWER. 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 2025 – accounting for 548.227 cleared hectares (Appendix H). Supporting Documents: Appendix C; Thunderbird Mineral Sands Project (EPBC 2016/7648): Terrestrial Fauna Environmental Management Plan and Offset Strategy Approval Letter (2018) Appendix F; Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy Approval Letter (2020) Appendix F; Proof of Payment to Greater
4	Offset project proposals submitted for approval in accordance with Condition 3(e) must: a) Specify the location and nature of offset project activities;	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.



	 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 		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, and implement all 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 first shipment of product sailed from Broome Port on the 28 January 2024. A total of 30 vessels sailed from Broome Port during the reporting period. This accounts for 38 vessels total over the life of Thunderbird Operations that have exported product from the Port of Broome. 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 marine Pilot, 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 KMS contracted vessels. Supporting Evidence: Appendix I; 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 D). 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 B). 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 D; Permit to Clear Example Appendix B; 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 2025 represents compliance with condition 8 of EPBC 2016/7648. Non-compliance with Condition 2(b) has been documented in a letter to the Minister and submitted at the same time as this report has been published.
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	Not Applicable	No independent audit has been requested by the minister.



	agreed to by the Minister and the audit report must address the criteria to the satisfaction of 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	The TFEMP is currently in review to accommodate greater understanding around operational and logistical restraints realised through the progress into full operation. Any amendments to the plan will involve an internal assessment as to the potential for a new or increased impact to the Greater Bilby. The amended plan and this review will be provided to the Minister at least four weeks prior to implementation.
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. 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. 	Not Applicable	No revision to the approved plan has been made to date.



	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 F). A revision to the approved strategy was submitted on 17 April 2023 and, at the time of drafting this report, was awaiting approval (Appendix G). At the time of reporting, correspondence had been received from DWER requesting amendments to the document, however DCCEEW are yet to comment on the revised plan. Once revisions have been made in line with DWER recommendations the amended document will be provided to both DCCEEW and DWER. The later revision of the Offset Strategy is to wait approval prior to implementation. Supporting Documents: Appendix F; Thunderbird Mineral Sands Project (EPBC 2016/7648) – revised Offset Strategy Approval Letter (2020) Appendix G; 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. <i>Evidence:</i> <u>https://www.kmsands.com.au/site/esg/environment</u>



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.
L	



Threat abatement plans Western Australian	A threat abatement plan made or adopted by the Minister under the EPBC Act. Ministerial Statement No.1080 - Thunderbird Mineral Sands Project
Approval	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.



6. APPENDICES

6.1 Appendix A: Greater Bilby Pre-Clearance Survey Areas





6.2 Appendix B: Thunderbird Operations – Area of Disturbance Records

PTC N	Date Cleared	Tenement	Site Description	Permit Area (ha)	L04/82	L04/83	L04/84	L04/85	L04/86 Surveyed	L04/92 Areas (ha)	L04/93	M04/459 Infrastructur e	M04/459 Mining Area	E04/129	Permit AOD Total	POW AOD Total
POW #58560	24/02/2016	L04/86	Drill Access Track (Original MAR)						5.27							5.27
POW #58560	24/02/2016	M04/459	Drill Access Track (Original MAR)	N/A	0.172							2.746			0.172	2.746
PTC007 Audit	1/07/2023	L04/82 L04/86	Mine Access Road (MAR) - 2023 Audit		0.172				2.324						2 324	
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	1/11/2017	L04/85	Village Road - Stage 1 - POW					2.84								2.84
PTC0003 Audit	1/07/2023	L04/85	Village Road - Stage 1 - 2023 Audit	N/A				0.797							0.797	
PTC0003 Audit	1/07/2023	L04/86	Village Road - Stage 1 - 2023 Audit						0.125						0.125	
POW # PTC0004	1/04/2018	L04/86	MAR Turkey Nest 1	N/A					0.202							0 202
POW # PTC0005 PTC0005	1/04/2018	L04/86	MAR Turkey Nest 2 MAR Turkey Nest 2 - 2023 Audit	N/A					0.1						0.111	0.1
POW # PTC0006	1/04/2018	L04/86	Mine Access Road (MAR) turn around													0.11
POW # PTC0006	1/07/2023	L04/86	Mine Access Road (MAR) turn around - 2023 Audit	N/A					0.11							0 004
PTC0008	1/07/2018	L04/86	Borrow Pit 1	0.65					0.492						0.492	
РТС0009	28/08/2018	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							0.400	
PTC0011	4/09/2018	L04/86	Extension to Borrow pit 1	0.5					0.473						0.473	
PTC0012	10/09/2018	L04/86	Checking for gravels along MAR	Unknown											0.000	
PTC0013 PTC0014	9/10/2020 20/10/2020	M04/459	Trial mining programme safety bunds Gravel Investigations	9.74					0				8.616		0.000	
PTC0014	30/10/2020	L04/86	Spoon drains for MAR	Unknown					0						0.000	
PTC0016	1/06/2021	M04/459	Trial Mining V2	5.96									5.769		5.769	
PTC0017	22/07/2021	L04/82	Re-clear of mine access road	N/A re-clear	341 39										341 395	
PTC0018	NOT ISSUED	L04/86	MAR S-Bends	0					0						0.000	
PTC0019	NOT ISSUED	L04/85	Village Access Road	0					0						0.000	
PTC0020	11/08/2021	L04/82	New MAR alignment Y junction to fraser	8.2	0.553				6.000						0 553	
PTC0020 PTC0021	11/08/2021	L04/86 M04/459	New MAR alignment Y junction to fraser	N/A re-clear					6.092			0			6 092	
PTC0022	5/08/2021	M04/459	Northern Bore rd fire break maintenance	N/A re-clear								0			0.000	
PTC0023	4/08/2021	L04/85	Existing road from homestead to village fire break maintenance	N/A re-clear				0							0.000	
PTC0024	9/08/2021	L04/85	Village Fire break Maintenance	N/A re-clear				0							0.000	
PTC0025	15/08/2021	L04/86	New MAR Alignment Fraser river to village	18					15.579						15.579	
PTC0026	18/08/2021	L04/84	New MAR Alignment Village road to plant site				1.11								1.110	
PTC0026	18/08/2021	L04/86	New MAR Alignment Village road to plant site	16.7					4.466						4.466	
PTC0026 PTC0027	18/08/2021 NOT ISSUED	M04/459 M04/459	New MAR Alignment Village road to plant site Start of Borefield Track	0								9.891			9 891	
PTC0027	NOT ISSUED	M04/459	Borefield Track - MAR to Central Rd	0								0			0.000	
PTC0029	18/09/2021	M04/459	Access track for production bores TPB03 and 15 and monitoring bores TMB11 and 12	1.6								0			0.000	
PTC0030	18/09/2021	M04/459	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 Northern gravel occurrence. Soil investigation using 22 test	11								9.989			9.989	
PTC0034 PTC0035	16/10/2021 22/10/2021	M04/459 M04/459	pits to a maximum of 2.5 mBGL. Northern gravel occurrence. Progressive excavation of pindan	0.2									0		6.172	
PTC0036	17/10/2021	M04/459	and gravels for MAR construction Diversion bund part 1 of 2 for site drainage	11								9.252	0.171		9.252	
PTC0037	19/10/2021	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	
PTC0039	29/10/2021	M04/459	Diversion bund part 2 of 2 for site drainage	1.48								1.426			1.426	
PTC0040	28/10/2021	M04/459	Northern gravel occurrence. Progressive excavation of pindan and gravels for MAR construction	6.91	*Combine wi	th PTC0035									0.000	
PTC0041	29/10/2021	M04/459	Spoon drains along MAR	0.7								0.497			0.497	
PTC0042	6/11/2021	L04/85	300 person village Extension to existing topsoil storage area (PTC0031) for	10.9				8.887							8.887	
PTC0043 PTC0044	10/11/2021	M04/459 M04/459	additional topsoil storage capacity Northern gravel occurrence. Progressive excavation of pindan	6								5.826	6.118		5.826	
PTC0044	30/11/2021	M04/459	and gravels for MAR construction Construction water pipeline and access track	8.23								8.499	0.210		8.499	
PTC0046	NOT ISSUED	M04/459	Borefield Pipeline Road	0											0.000	
PTC0047	18/11/2021	L04/82	Logue Culvert Stream Training	0	0										0.000	
PTC0047	18/11/2021	L04/86	Fraser Culvert Stream Training	0					0						0.000	
PTC0048	17/12/2021	L04/86	Spoon drains along MAR	0.37					0.22						0.220	
PTC0049	10/02/2022	M04/459	Extension to Turkey nest area for machine access and fire break Extension to existing KMS gravel nit to win gravels for village	0.1								0.141			0.141	
PTC0050	9/02/2022	L04/86	Extension to existing KMS gravel pit to win gravels for village construction	0.037					0.11						0.110	
PTC0051 PTC0052	10/02/2022	M04/459 M04/459	Diversion of existing water corridor due to TSF design change Plant site comms tower	0.74								0.77			0.770	
PTC0052	22/02/2022	M04/459	LOM Landfill	8.73								3.997			3.997	
PTC0054	10/03/2022	M04/459	Southern Gravel Borrow pit, stage 1 clearing	6.98									6.871		6.871	
PTC0055	22/03/2022	L04/85	Linen shed, dry mess maintenance track, drains and north pad extension	0.898				0.706							0.706	
PTC0056	22/03/2022	M04/459	Create 1 way track between southern occurrence and plant	1								0.186	0.925		1.111	
PTC0057	22/03/2022	L04/85	Access track to village WWTP	0.223				0.208							0.208	
			Southern Gravel Borrow pit, stage 2 clearing	8.49									8.439		8.439	
PTC0058	8/04/2022	M04/459														
PTC0059	25/10/2022	M04/459	Southern Gravel Stage 3	2.17									2.126		2.126	
				2.17 14.36 0.46	0.425							14.652	2.126		2.126 14.652 0.425	

Name </th <th>PTC0063</th> <th>18/05/2022</th> <th>L04/85</th> <th>New Village access road</th> <th>5.7</th> <th>5.415</th> <th></th> <th></th> <th>5.415</th> <th>1 1</th>	PTC0063	18/05/2022	L04/85	New Village access road	5.7	5.415			5.415	1 1	
Name <td></td>											
NameNome<		18/05/2022	M04/459	Borefield road extension and pad installation	4.458		3.33		3.330		
matrix <th< td=""><td></td><td></td><td></td><td>Required to construct separated road for moxy access to</td><td>0.1</td><td></td><td></td><td>0.054</td><td></td><td></td></th<>				Required to construct separated road for moxy access to	0.1			0.054			
mannmath	PTC0067	28/07/2022	M04/459		8.08		7.154				
nmmNomeNo <e< th="">NomeNo<e< th="">No<e< th="">No<No<No<No<No<No<No</e<></e<></e<>	PTC0067rev1	29/07/2022	M04/459	Process Plant Extension C	2.1		1.491		8.645		
Name<	PTC0068	31/05/2022	L04/85	Village sediment traps and drainage	1.33	0.381			0.381		
nmnmi	PTC0069	5/06/2022	L04/85	New Village road culvert installation	0.14	0.125			0.125		
nmm <td>PTC0070</td> <td>17/06/2022</td> <td>M04/459</td> <td>TSF Stage 1, fence line, bore access and stockpile area</td> <td>10.02</td> <td></td> <td>9.661</td> <td></td> <td>9.661</td> <td></td>	PTC0070	17/06/2022	M04/459	TSF Stage 1, fence line, bore access and stockpile area	10.02		9.661		9.661		
NMM	PTC0071	21/06/2022	M04/459	TSF construction and access roads	10.3		9.878		9.878		
mathMain </td <td>PTC0072</td> <td>29/06/2022</td> <td>M04/459</td> <td>SSP construction</td> <td>12.2</td> <td></td> <td>11.658</td> <td></td> <td>11.658</td> <td></td>	PTC0072	29/06/2022	M04/459	SSP construction	12.2		11.658		11.658		
mathMath<	PTC0073	6/07/2022	M04/459	Borefield realignment for flood mitigation	5.66		5.306		5.306		
manNone </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.738</td> <td></td> <td></td> <td></td>							1.738				
mmNo. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>13.778</td><td></td></t<>									13.778		
mm								1 045			
NoneNoneNoneNoneNoneNoneNoneNoneName											
nmmdiskdiskdiskdiskdiskdiskdiskregReg											
matrix											
namematrixmatri											
mm space s											
mmm mmm </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.187</td> <td></td> <td></td> <td></td> <td></td>						0.187					
Norm Norm And And<							0				
nmm Name Name <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm Norm											
nmm indep <						0.11					
nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm nmm n			M04/459		6.93		6.443		6.443		
NMM	PTC0090	23/08/2022	M04/459	TSF stage 11 embankments	3.89		3.889		3.889		
nmm nmm <td>PTC0091</td> <td>8/09/2022</td> <td>M04/459</td> <td>Plant Site to TSF Corridor</td> <td>0.61</td> <td></td> <td>0.574</td> <td></td> <td>0.574</td> <td></td>	PTC0091	8/09/2022	M04/459	Plant Site to TSF Corridor	0.61		0.574		0.574		
nome index index index index index index index index nome index index index index index nome index index index index index nome index index index index nome <td>PTC0092</td> <td>8/09/2022</td> <td>M04/459</td> <td>Temporary comms corridor through TSF stage 11</td> <td>0.23</td> <td></td> <td>0.178</td> <td></td> <td>0.178</td> <td></td>	PTC0092	8/09/2022	M04/459	Temporary comms corridor through TSF stage 11	0.23		0.178		0.178		
number number </td <td>PTC0093</td> <td>13/09/2022</td> <td>M04/459</td> <td>Borefield Pad Drainage</td> <td>0.47</td> <td></td> <td>0.423</td> <td></td> <td>0.423</td> <td></td>	PTC0093	13/09/2022	M04/459	Borefield Pad Drainage	0.47		0.423		0.423		
Norm	PTC0094	13/09/2022	M04/459	Stage 1 of MUP road	0.61		0.427	0.105	0.532		
Norm	PTC0095	5/10/2022	M04/459	Borefield RMU Pads	0.28		0.312		0.312		
NAMENAMENAMEIII	PTC0096	13/10/2022	M04/459	TSF Monitoring Bore Pads	0.3		0.252		0.252		
Norm	PTC0097	14/10/2022	M04/459	Northern Diversion Drain Stilling Basin	0.73		0.687	0.010	0.696		
Name	PTC0098	20/11/2022	M04/459	Work zones around SSP walls	1		0.904		0.904		
nmm nmm </td <td>PTC0099</td> <td>15/10/2022</td> <td>M04/459</td> <td>MUP road stage 2</td> <td>0.84</td> <td></td> <td></td> <td>0.861</td> <td>0.861</td> <td></td>	PTC0099	15/10/2022	M04/459	MUP road stage 2	0.84			0.861	0.861		
NumberNume				-							
number number </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.098</td> <td></td> <td></td> <td></td>							0.098				
nmm nmm </td <td></td>											
norm norm norm norm norm norm norm norm norm norm								0.571			
number Name							15.407	0.403			
PriceNotic							0.067	0.402			
renderodderodderodderodderodderodderrenderodderodderodderodderodderodderodderrenderodderodderodderodderodderodderodderodderrenderodderodderodderodderodderodderodderodderodderrenderoddeodderodderodderodderodderodderodderodderodderodderodderodderodderodderodderoddero			M04/459	MUP Booster Pad & Corner Ext				0.229	0.229		
read 60000 60000 60000 60000 60000 r00000 600000 600000 60000 60			M04/459	MUP Booster Pad Extension			0.003		0.020		
rn2201200720004/09Carty Mong Web 3- Acces Road and State PR9.0310.00010.00010.00010.000rr2113106/021004/09004 Mong Web 3- Acces Road and State PR0.020.000 <td></td>											
rnn1 info/inf Maya information 0.00 0.000 0.000 0.000 0.000 rn11 information Maya information 0.00 0.000 0.000 0.000 rn11 information Maya information Maya 0.000 0.000 0.000 rn11 information Maya information Maya 0.000 0.000 0.000 rn11 information Maya information				Carey Mining Week 1 - Stockpile and Access				10 25	10.250		
rnn1 info/inf Maya information 0.00 0.000 0.000 0.000 0.000 rn11 information Maya information 0.00 0.000 0.000 0.000 rn11 information Maya information Maya 0.000 0.000 0.000 rn11 information Maya information Maya 0.000 0.000 0.000 rn11 information Maya information				Carey Mining Week 2 - Access Road and Starter Pit							
Pi0113 2007.023 M4449 Carey Jayow 2.14 Monormal Carey Jayow 2.03 A.049 A.049 A.049 A.049 A.049 A.0449 Matracesson Lagande 0.03 A.0440 Matracesson Lagande 0.03 A.0440 Matracesson Lagande 0.03 A.0449 Matracesson Lagande 0.03 A.0440 Matracesson Lagande 0.03 A.0440 Matracesson Lagande 0.03 A.0470 A.0449 Matracesson Lagande A.0470				TSF Skid Pad Extension	0.072		0.07				
PG014 1407/2031 164/4 Methematicin Ugende 0.60 0.60 0.60 0.60 PC015 14/06/203 M64/49 Sockes Kood Widering 0.33 0.437 0.437 0.437 0.437 PC015 M64/49 M26 Sexes Kood Widering 0.82 0.722 0.723 709 703 M64/49 Merk Feige and Social Grade 111 0.000 0.001 </td <td>PTC0112</td> <td>21/07/2023</td> <td>M04/459</td> <td>Carey Mining Week 3 - Pit and Topsoil Dumps #2</td> <td>2.244</td> <td></td> <td></td> <td>1.972</td> <td>1.972</td> <td></td>	PTC0112	21/07/2023	M04/459	Carey Mining Week 3 - Pit and Topsoil Dumps #2	2.244			1.972	1.972		
IND7023 N04/94 SAces8 bod Widenig 0.53 Index 1.017 0.017	PTC0113	20/07/2023	M04/459	Carey Laydown	2.194		2.033	0.006	2.039		
PG2116 Q0047031 M04/49 MUP Services Infrastructure Q012 P102117 7/97273 M04/49 Turkey Hey piping and Road controlor I.11 Information Information </td <td>PTC0114</td> <td>16/07/2023</td> <td>L04/82</td> <td>GNH Intersection Upgrade</td> <td>0.608</td> <td>0.608</td> <td></td> <td></td> <td>0.608</td> <td></td>	PTC0114	16/07/2023	L04/82	GNH Intersection Upgrade	0.608	0.608			0.608		
POD17 POD23 M449 Interplet page and accorder 1.11 NGS0 10/023 UA/95 Ded Sel Sel Genup MA 0.021 <td>PTC0115</td> <td>18/09/2023</td> <td>M04/459</td> <td>SO Access Road Widening</td> <td>0.353</td> <td></td> <td></td> <td>0.347</td> <td>0.347</td> <td></td>	PTC0115	18/09/2023	M04/459	SO Access Road Widening	0.353			0.347	0.347		
N309 N4045 Beek Spil Geaup NA 0.021	PTC0116	30/08/2023	M04/459	MUP Services Infrastructure	0.832			0.752	0.752		
PCD19M04/202M04/45Townised Sockpile164Image: Constraint of the Sock Sock Sock Sock Sock Sock Sock Sock	PTC0117	7/09/2023	M04/459	Turkey Nest piping and Road corridor	1.111		1.056		1.056		
PitCD11 IV/10/203 MoV4 ye Preversion & Landtill Interests 1.42 Description of the pitch of the p	INX580					0.021					
Prichals Bu/Rs Mage and Sprayfield fire breaks 1.26 Out Prichal Pricha Pricha Pricha <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.84</td> <td>1.840</td> <td></td>								1.84	1.840		
N730 N04/29 Fre Beaks N/A State							1.383		1.800		
Pricozz Pricozz Nul-Ago Mu-Pru-key Meet 0.25 Pricozz 18/12/023 Mu-Ago Oresited Stockplies 7.74 Pricozz 12/12/023 Mu-Ago Nort Me 3.25 Pricozz 12/12/023 Mu-Ago Nort Me 3.25 Pricozz 12/12/023 Mu-Ago Nort Me 3.25 Pricozz 4/12/024 Mu-Ago Nort Me 2.43 Pricozz 4/12/024 Mu-Ago Nort Me 2.43 Pricozz 4/12/024 Mu-Ago Mu-Ago Nort Me Pricozz 4/12/024 Mu-Ago Mu-Ago 1.020 Pricozz 4/12/024 Mu-Ago Mu-Ago 1.020 Pricozz 4/12/024 Mu-Ago Mu-Ago 1.020 Pricozz 1/10/204 Mu-Ago Mu-Ago 1.020 Pricozz 1/10/204 Mu-Ago Mu-Ago 1.020 Pricozz 10/10/204 Mu-Ago Mu-Ago 1.020 Pricozz <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.417</td> <td></td> <td></td> <td></td> <td></td>						0.417					
PC0200 18/12/023 M04/45 Owsised Stockplies 7.74 PC021 21/2/023 M04/45 Not NP 325 PC021/2 4/12/024 M04/45 Not NP K 243 PC021/2 4/12/024 M04/45 Not NP K 243 PC021/2 4/12/024 M04/45 Not NP K 243 PC021/2 4/12/024 M04/45 Monfe Topol Block 2 1257 PC021/2 1/12/024 M04/45 Monfe Topol Block 2 1267 PC021/2 1/02/024 M04/45 Monfe Topol Block 2 1267 PC021/2 <							9.818				
Pricozzi Zu/Jz/QZ3 Mod,4s Norh Pit Dz3 Data Data Data Pricozzi 4//JZ024 Mod,4s Norh Pit v2 Z.45 Z.455 Z.455 <td></td>											
PTCD213 v2 4/04/2024 Mo44 so North Pt v2 2.63 Accord and an anti-anti-anti-anti-anti-anti-anti-anti-											
4/07/2024 4/04/2024 Mody4s Mining Toopical Blocks 2 12.57 12.105 </td <td></td>											
1/02/024 1/02/024 Mol4s Mining Block 10.32 10.32 10.02 <td></td>											
PTC022 FUTURE N04/459 Landfill Stage 2 4.716 4.716 4.716 4.716 PTC0226 N0T (SSUED Landfill Stage 7 0.387 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 1 0.000 1 1 0.000 1 1 0.000 1 1 1 0.000 1											
PTC0126 NOT KSUED L04/86 Vilage T Junction 0.387 PTC0127 3/05/2024 M04/459 Oversked North 17.7 17.085 17.085 17.085 PTC0128 2/04/2024 M04/459 Oversked North 7.04 57.04 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>4,716</td><td>10.001</td><td></td><td></td></td<>							4,716	10.001			
PTC0127 3/05/2024 M04/459 Oversiked North 17.7 17.085											
PTC0128 24/04/2024 Mod/459 Mining Hauk Road 7.04 6.781 7.781 7.781 <th 7.7<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>17.085</td><td></td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>17.085</td> <td></td> <td></td>								17.085		
PTC0129 19/04/2024 M04/459 Mining Block Stage 4 8.67 8.543 8.543 PTC0130 29/04/2024 M04/459 Exploration Drilling Tracks 12 9.666 9.666											
PTC0130 29/04/2024 M04/459 Exploration Drilling Tracks 12 9.666 9.666	PTC0129	19/04/2024	M04/459	Mining Block Stage 4	8.67			8.543	8.543		
		29/04/2024	M04/459	Exploration Drilling Tracks	12			9.666	9.666		
PTLD131 13/05/2024 W04/439 North Pit b.0/ 5.923 5.923	PTC0131	13/05/2024	M04/459	North Pit	6.07			5.923	5.923		

					AOD Total (minus POW's)									537.153		
					0.00		1.11	23.28	36.65	0.00		294.36	202.03		551.160	14.01
PTC0141	13/06/2025	M04/459	Mining Blocks 21 and 22	2.31									1.832		1.832	
N/A	9/06/2025	45817	Kaynar Intersection	0.011					0.011						0 011	
PTC0140	26/05/2025	M04/459	TSF3A Embankments	0.386									0.025		0.025	
PTC0139	22/03/2025	M04/459	Mining Corner Fillet	0.017									0.028		0.028	
PTC0138	10/01/2025	M04/459	TSF to SO Rd ext.	0.018									0.007		0.007	
INX3649	6/01/2025	M04/459	5-ways Overclearing Incident	N/A								0.039			0.039	
PTC0137	11/12/2024	M04/459	Mining Stage 7	15.665									15.381		15.381	
PTC0136	30/11/2024	M04/459	Topsoil Stockpile Stage 6	4.532									4.202		4.202	
PTC0135	16/11/2024	M04/459	Magazine Laydown	1.511								1.474			1.474	
PTC2024	28/10/2024	L04/85	2024 Drone Clearing Audit	N/A				0.029							0.029	1
PTC2024	28/10/2024	M04/459	2024 Drone Clearing Audit	N/A								1.27	0.325		1.595	
PTC0134	23/08/2024	M04/459	TSF Borrow Pit	10.34									10 02		10.020	
PTC0133	16/08/2024	M04/459	Mining Ring Road	0.66									0.602		0.602	
PTC0132	25/06/2024	M04/459	Illmenite Stockpile	0.3								0.23			0.230	
PTC0128 v2	NOT ISSUED	M04/459	Haul Road extension	0 0139											0.000	



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



Australian Government

Department of the Environment and Energy

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: <u>post.approvals@environment.gov.au</u>.

Yours sincerely

Greg Manning Assistant Secretary Assessments (WA, SA, NT) & Post Approvals Branch Environment Standards Division

2 November 2018



6.4 Appendix D: 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



Electronic Version Current: Uncontrolled copy valid only

Printed: 31/1/2024 2:33 pm

This form must be completed by the Perm Environmental Team along with the cleari permits must be completed and hard cop	ng JH/	A before any area	of soil or vegetation Imental Team for fili	n is die ng.	sturbed. Once clearing has finished, PTC # 0123			
Issued Date: 21/01/24 Permit Expiry	-		Permit Owner (KMS):	Mar	* Bovan A. DURERU			
Description of location and tenement: Attach Northwest of the Current Mining Area			Location Grid Co-ordi 495017 m	nates	(GDA only): 8073956 mN			
Purpose of the clearing: Clear space for the tops	oil and	vegetation stockpile	Temporary (<3 mont Permanent (>3 mont	ns) or hs):	Permanent			
Current clearing on tenement (ha): 175.13					e on tenement (ha): 233.46			
Land use: Topsoil Stockpiles & T	rans	port	Is this land use appro	oved o	n this tenement? Yes			
Estimated area to be cleared (ha): 12.58			Actual area cleared (ha):	2-105			
	npletic	on date: 29/01/24	Actual start date:	1.2	Z4 Actual completion date: 4224			
Topsoil volume (m ³): 25160			How will the area be marked out prior to clearing? GPS in machinery, survey to flag boundary, continuous flags at corners at mi					
CHECKS PRIO	R TO C	COMMENCING						
ITEM	~	,	TEM	1	CLEARING PROCEDURE			
Has TOPL-ENV-PRO Land Clearing Procedure been referred to and followed?			aring been kept to a bided marked trees?	\checkmark	 Take photos of area PRE-CLEARANCE for rehabilitation purposes Check topsoil is dry and mark out area 			
Has the proposed clearing area been compared against tenement boundaries, development envelope and clearing allowances?	Has the permit be approved prior to clearing?		1	 Complete a JHA Walk the dozer around any boundaries Clear and stockpile vegetation Clear and stockpile topsoil (up to 2 m high, single level, paddock dumped 				
Is the Bilby pre-clearance survey completed for this area? Attach evidence	<	Has the area bee prior to clearing?	n clearly marked out	\checkmark	 stockpiles) Store stockpiles away from traffic for rehabilitation purposes 			
				1 2	• • • • • • • • • • • • • • • • • • •			

To reduce weed invasion, ensure that no weed affected soil, mulch or fill is introduced

Please answer these questions:

clearance survey? Attach evidence

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

Do operators understand the clearing

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.

required?

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		RE DATE
Environmental Advisor	Molly Ahern	IN	21/01/2024
provals to be signed PPIOP to clear			

Approvals to be signed PRIOR to clearing

ROLE	FULL NAME	SIGNATURE	DATE
Permit Owner	-Mark-Bevan A DULLEAU	X	1/2/24
Machinery Operator #1	WALTER SCOTT	A A A	112/24
Machinery Operator #2		M	
Contractor Superintendent	A. DURGAU	files -	112/24
Site Senior Executive	Shaun Higgins	CAN	1/2/24



6.5 Appendix E: Greater Bilby Survey Summary

		Start Co	ordinates	Survey	Habitat	Fauna	Bilby Activity
Survey Area	Start Date	Easting	Northing	Area (ha)	Surveys Complete	Recording Complete	Observed
M2 Trial Mining Stage 2	28/5/21	496070	8073830	11	YES	YES	NO
18-30km New Mine Access Road	14/7/21	505546	8064063	90.8	YES	YES	YES
Fire Breaks	4/8/21	502461	8071552	48	YES	YES	YES
D4 Portion of Borefield and Service Corridor	20/8/21	498769	8070926	3.74	YES	YES	NO
D1-3 Portion of Borefield and Service Corridor	25/8/21	496553	8068341	13.9	YES	YES	YES
T1 Topsoil Stockpile Area	30/8/21	498089	8072447	25.5	YES	YES	NO
D5 Portion of Borefield	30/8/21	498223	8071730	13.4	YES	YES	NO
E1 TSF Vegetation Stockpile Area	3/9/21	498451	8071349	18.9	YES	YES	NO
D8 Portion of Borefield	7/9/21	496740	8067820	118	YES	YES	NO
B1 Partial Plant Area	8/9/21	497733	8072880	30.2	YES	YES	NO
D7 Portion of Borefield	15/9/21	494409	8069492	7.41	YES	YES	NO
B1b Partial Plant Site Survey #2	23/9/21	498153	8072374	20	YES	YES	NO
B1c Partial Plant Site Survey #3	23/9/21	498153	8072374	20.5	YES	YES	NO
A7 MBE Access Road	7/10/21	502872	8067288	0.45	YES	YES	NO
G1 Northern Gravel Occurance	7/10/21	496045	8073828	27.2	YES	YES	NO
A8 Fraser River Laydown	8/10/21	504216	8065532	0.88	YES	YES	NO
B1c Partial Plant Site Survey #4	8/10/21	498153	8072374	24	YES	YES	NO
D9 Plant Diversion Drain	14/10/21	499273	8070258	26.5	YES	YES	YES
G2 Northern Gravel Occurrence North	21/10/21	496571	8073960	11	YES	YES	NO
C2 Village and Drains	4/11/21	502445	8071426	25.4	YES	YES	NO
G3 Northern Gravel Occurrence	5/11/21	496096	8073884	15.4	YES	YES	NO
T2 Topsoil Stockpile B	9/11/21	498374	8072735	10.3	YES	YES	NO
Fraser and Little Logue River Stream Trainings	16/11/21	515161	8049658	<0.5	YES	YES	NO
Borefield Service Corridor	23/11/21	494430	8069325	39.3	YES	YES	YES
G4 KMS Gravel Pit Extension	8/12/21	502657	8067484	2.11	YES	YES	NO
MAR Spoon Drains North	8/12/21	500418	8069379	2.1	YES	YES	NO
MAR Spoon Drains South	15/12/21	504011	8065830	0.4	YES	YES	NO
KMS Gravel Pit Extension B	25/1/22	502580	8067515	0.1	YES	YES	NO
Plant Turkey Nest Extension	25/1/22	497889	8072044	0.52	YES	YES	NO
D10 Construction Water Service Corridor Extension B	8/2/22	498684	8070787	17.1	YES	YES	NO
Plant Turkey Nest Extension v2	9/2/22	497889	8072044	0.45	YES	YES	NO
Landfill	16/2/22	498442	8072007	12	YES	YES	NO
Plant Communiction Tower	16/2/22	497575	8072710	1.68	YES	YES	NO
Southern Gravel Occurrence A	9/3/22	496053	8073330	11.2	YES	YES	NO
Village Dry Mess Track, Drains, Linen Shed & Pad Ext.	9/3/22	502133	8071438	1	YES	YES	NO
Village WTP Road and Dry Mess	21/3/22	502149	8071429	1	YES	YES	NO
Southern Gravel Access Track	22/3/22	496379	8073058	6.11	YES	YES	NO
Southern Gravel Occurrence B	6/4/22	496370	8073053	12.4	YES	YES	NO
Process Plant Stage 2	13/4/22	497458	8072583	44.9	YES	YES	NO
Mount Jowlaenga Intersection	14/4/22	505540	8064110	1.37	YES	YES	NO
Village Culverts	14/4/22	502136	8071425	<0.5	YES	YES	NO
Haul Road Truck Turnaround	20/4/22	515647	8049248	0.5	YES	YES	NO
Borefield Stage 2	10/5/22	496600	8068245	12	YES	YES	NO
Moxy Offshoot	10/5/22	497158	8072517	0.19	YES	YES	NO
New Village Access Road	12/5/22	501113	8069372	9.97	YES	YES	NO
Process Plant Extension C	13/5/22	497422	8072558	12.8	YES	YES	NO
New Village Road Culverts	3/6/22	501342	8069676	>0.5	YES	YES	NO
TSF Stage 1	8/6/22	497981	8069901	21.8	YES	YES	YES
TSF Stage 2	22/6/22	497782	8072029	15	YES	YES	YES

Oursen Arres	Associated	Otart Data	Survey C	oordinates	Survey	Habitat	Fauna	Bilby
Survey Area	Clearing Permit	Start Date	Easting	Northing	Area (ha)	Surveys Complete	Recording Complete	Activity Observed
Borefield Re-alignment Rev1	PTC0073	04/07/22	495481	8068821	16.7	YES	YES	NO
TSF Stage 4	PTC0074	07/07/22	497930	8070483	14.3	YES	YES	YES
TSF Offices	PTC0075	08/07/22	498195	8070220	1.86	YES	YES	NO
Exploration Grade Control Drilling	PTC0076	13/07/22	495876	8073671	14.3	YES	YES	NO
TSF Stage 5	PTC0079	13/07/22	497724	8070908	19.6	YES	YES	NO
Borefield Road Extension Stage 2&3	PTC0078	14/07/22	497900	8069788	3	YES	YES	NO
TSF Stage 7	PTC0081	14/07/22	497886	8071353	20	YES	YES	YES
TSF Stage 6	PTC0080	15/07/22	497600	8071827	10.3	YES	YES	NO
TSF Stages 8 & 9	PTC0082	21/07/22	498094	8071646	45	YES	YES	NO
Additional VAR	PTC0084	27/07/22	502387	8071425	0.46	YES	YES	NO
Borefield Stage 5	PTC0083	27/07/22	496705	8068363	3.89	YES	YES	NO
Process Plant Ext C Rev1	PTC0067	28/07/22	497624	8072227	6	YES	YES	NO
Jillian Ridge Fire Breaks	PTC0077	02/08/22	504279	804498	1.38	YES	YES	NO
TSF Stage 10	PTC0087	04/08/22	498614	8070669	17.1	YES	YES	NO
Village Culvert 5 & VAR Extra	PTC0088	05/08/22	501971	8071446	<0.5	YES	YES	NO
Borefield Stage 4 - Southern Diversion Drain	PTC0086	15/08/22	495287	8068552	11.4	YES	YES	NO
TSF Stage 12	PTC0089	20/08/22	498547	8071327	12.9	YES	YES	YES
TSF Stage 11a	PTC0090	21/08/22	498345	8070422	8.74	YES	YES	NO
TSF to Process Plant Corridor	PTC0091	06/09/22	497506	8072240	2	YES	YES	NO
TSF Comms Corridor Stage 11b	PTC0092	08/09/22	498039	8070721	0.7	YES	YES	NO
Borefield Realignment 1b	PTC0093	12/09/02	495349	8068903	1	YES	YES	NO
MUP Stage 1	PTC0094	12/09/22	497218	8072909	1.59	YES	YES	NO
RMU Pads	PTC0095	02/10/22	496526	8068164	1	YES	YES	NO
TSF&SSP Monitoring Bore Pads	PTC0096	12/10/22	498739	8070855	1.1	YES	YES	NO
North Diversion Drain Western Stilling Basin	PTC0097	10/10/22	497233	8073015	2.48	YES	YES	NO
Southern Occurence Stages 3&4	PTC0059 & PTC0101	22/10/22	496673	8072848	6.85	YES	YES	NO
TSF Zone 2	PTC0098	20/11/22	497363	8070638	1.49	YES	YES	NO
MUP Stage 2	PTC0099	15/10/22	497215	8072931	3.5	YES	YES	NO
MUP Stage 3	PTC0100	11/11/22	496075	8073861	13	YES	YES	NO
TSF to South Occurrence Corridor	PTC0102	11/11/22	496809	8072787	6.18	YES	YES	NO
TSF Stage 11c	PTC0103	24/11/22	498537	8070723	14.4	YES	YES	NO
MUP Stage 4 & 2B	PTC0104	17/01/23	496371	8073360	1.7	YES	YES	NO
TSF Skid Pad	PTC0105	21/03/23	497458	8071985	0.33	YES	YES	NO
MUP Booster Pad	PTC0106	26/03/23	496626	8073207	0.5	YES	YES	NO
MUP Extra Corner	PTC0107	30/03/23	496377	8073352	<0.5	YES	YES	NO
MUP Booster Pad Ext & Corner	PTC0106	06/04/23	495782	8073350	<0.5	YES	YES	NO
MUP Corner2	PTC0107	18/04/23	497332	8072772	<0.5	YES	YES	NO
MUP RMU Pad	PTC0108	04/05/23	495848	8073345	<0.5	YES	YES	NO
Mining Schedule Week 1	PTC0109	02/06/23	496388	8073364	15.2	YES	YES	NO
Mining Schedule Week 1-3	PTC0110	09/06/23	495768	8073334	10	YES	YES	NO
TSF Skid Pad Extension	PTC0111	09/06/23	497431	8071961	0.2	YES	YES	NO

Sumuci Area			Survey Coordinates				Habitat Surveys	Fauna Recording	Bilby Activity
Survey Area	Associated PTC	Survey Date	Easting	Northing	Area to Clear (na)	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

Survey Area	Accessisted BTC	Survey Date	Survey Coordinates		Area to Clear (ha)	Area Surveyed (ha)	Habitat Surveys Complete	Fauna Recording Complete	Bilby Activity Observed
	Associated FTC		Easting	Northing	Alea to Glear (IIa)	Alea Sulveyeu (lla)	Habitat Surveys Complete	r auna necorang complete	Diby Activity Observed
Ilmenite Stockpile	PTC0132	14/06/2024	497880	8072342	0.220	0.4	YES	YES	NO
Mining Ring Road	PTC0133	1/08/2024	495670	8073957	0.651	1.3	YES	YES	NO
TSF Burrow Pit	PTC0134	18/08/2024	497171	8071748	10.336	13.2	YES	YES	NO
Magazine Laydown	PTC0135	9/11/2024	497400	8069150	1.511	2.5	YES	YES	NO
Mining - Topsoil Stage 6	PTC0136	17/11/2024	494727	8073976	4.301	5.5	YES	YES	NO
Mining Block Stage 7	PTC0137	11/12/2024	495249	8073293	15.651	23.751	YES	YES	NO
SO to TSF 3-Way	PTC0138	9/01/2025	497123	8072578	0.018	0.08	YES	YES	NO
Corner Fillet_South Ring Road	PTC0139	22/03/2025	495466	8072951	0.023	0.017	YES	YES	NO
TSF3A_Embankments	PTC0140	24/05/2025	498515	8070185	0.387	0.465	YES	YES	NO
Mining Blocks 21 and 22	PTC0141	11/06/2025	495727	8073217	2.310	2.74	YES	YES	NO



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



Australian Government

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 Ma Maugh Director, Post Approvals Environment Assessments (Vic, Tas) and Post Approvals Branch

7 October 2020



6.7 Appendix G: Ministerial Statement 1080 Thunderbird Mineral Sands Project, Condition 10 – Greater Bilby Research and Conservation Plan Submission



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

Kimberley Mineral Sands Pty Ltd – ACN 623201507 | Thunderbird Operations Pty Ltd – ACN 611351743



6.8 Appendix H: Proof of Payment to Greater Bilby Offset Fund



NAB Connect

Transaction History Report

Account de	etails	Account b	Account balance summary			
Account m Bilby Guar Account m Currency AUD	rantee number		Opening Total creat Total deb Closing b Date from Date to:	dits: its: alance:	anuary 2025 une 2025	
Transactio	n details					
Date	Narrative	Reference number	Debit amount	Credit amount	EOD balance	
02/01/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
02/01/2025	MISCELLANEOUS CREDIT AS AT 02/01/2025 YOUR VARIABLE CR INTEREST RATE IS 1.800%					
31/01/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			845.23 CI	R	
03/02/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
03/02/2025	MISCELLANEOUS CREDIT AS AT 03/02/2025 YOUR VARIABLE CR INTEREST RATE IS 1.800%					
28/02/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			764.60 CI	R	
28/02/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
28/02/2025	MISCELLANEOUS CREDIT PLEASE NOTE FROM TODAY YOUR DR INTEREST RATE IS 15.160%					
28/02/2025	MISCELLANEOUS CREDIT AS AT 28/02/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%					
03/03/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					

Transaction History Report (Continued)

Date	Narrative	Reference number	Debit amount	Credit amount	EOD balance
03/03/2025	MISCELLANEOUS CREDIT AS AT 03/03/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
31/03/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			729.96 CR	
01/04/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
01/04/2025	MISCELLANEOUS CREDIT AS AT 01/04/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
30/04/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			707.34 CR	
01/05/2025	MISCELLANEOUS CREDIT AS AT 01/05/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
01/05/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
23/05/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
23/05/2025	MISCELLANEOUS CREDIT AS AT 23/05/2025 YOUR VARIABLE CR INTEREST RATE IS 1.350%				
30/05/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			686.91 CR	1
30/05/2025	MISCELLANEOUS CREDIT PLEASE NOTE FROM TODAY YOUR DR INTEREST RATE IS 14.910%				
02/06/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
02/06/2025	MISCELLANEOUS CREDIT AS AT 02/06/2025 YOUR VARIABLE CR INTEREST RATE IS 1.350%				
11/06/2025	TRANSFER CREDITS NABCONNECT 290539811 Jan-Mar 25 CPI			4,915.04 CR	
11/06/2025	TRANSFER CREDITS NABCONNECT 290516901 Oct-Dec 24 CPI			3,795.62 CR	
11/06/2025	TRANSFER CREDITS NABCONNECT 290517288 Jan-Mar 25 Gntee			87.50 CR	

End of report



NAB Connect

Transaction History Report

Account de	etails	Account b	Account balance summary			
Account n Bilby Offse Account n Currency AUD	et		Opening b Total cred Total deb Date from	67.46 CR CR anuary 2025		
ROD			Date from Date to:		une 2025	
Transaction	n details					
Date	Narrative	Reference number	Debit amount	Credit amount	EOD balance	
02/01/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
02/01/2025	MISCELLANEOUS CREDIT AS AT 02/01/2025 YOUR VARIABLE CR INTEREST RATE IS 1.800%					
31/01/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			1,604.96 CF	R	
03/02/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
03/02/2025	MISCELLANEOUS CREDIT AS AT 03/02/2025 YOUR VARIABLE CR INTEREST RATE IS 1.800%					
28/02/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			1,451.86 CF	2	
28/02/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					
28/02/2025	MISCELLANEOUS CREDIT PLEASE NOTE FROM TODAY YOUR DR INTEREST RATE IS 15.160%					
28/02/2025	MISCELLANEOUS CREDIT AS AT 28/02/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%					
03/03/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE					

Transaction History Report (Continued)

Date	Narrative	Reference number	Debit amount	Credit amount	EOD balance
03/03/2025	MISCELLANEOUS CREDIT AS AT 03/03/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
31/03/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			1,386.08 CR	
01/04/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
01/04/2025	MISCELLANEOUS CREDIT AS AT 01/04/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
30/04/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			1,343.13 CR	
01/05/2025	MISCELLANEOUS CREDIT AS AT 01/05/2025 YOUR VARIABLE CR INTEREST RATE IS 1.550%				
01/05/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
23/05/2025	MISCELLANEOUS CREDIT AS AT 23/05/2025 YOUR VARIABLE CR INTEREST RATE IS 1.350%				
23/05/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
30/05/2025	CREDIT INTEREST INTEREST CA INTEREST THUNDER OPER			1,304.35 CR	
30/05/2025	MISCELLANEOUS CREDIT PLEASE NOTE FROM TODAY YOUR DR INTEREST RATE IS 14.910%				
02/06/2025	MISCELLANEOUS CREDIT WHEN YOUR BALANCE IS \$10,000 OR MORE				
02/06/2025	MISCELLANEOUS CREDIT AS AT 02/06/2025 YOUR VARIABLE CR INTEREST RATE IS 1.350%				
11/06/2025	TRANSFER CREDITS NABCONNECT 290539859 Jan-Mar 25 CPI			9,185.58 CR	
11/06/2025	TRANSFER CREDITS NABCONNECT 290516839 Oct-Dec 24 CPI			7,094.00 CR	
11/06/2025	TRANSFER CREDITS NABCONNECT 290517211 Jan-Mar 25 Offset			97.50 CR	

End of report



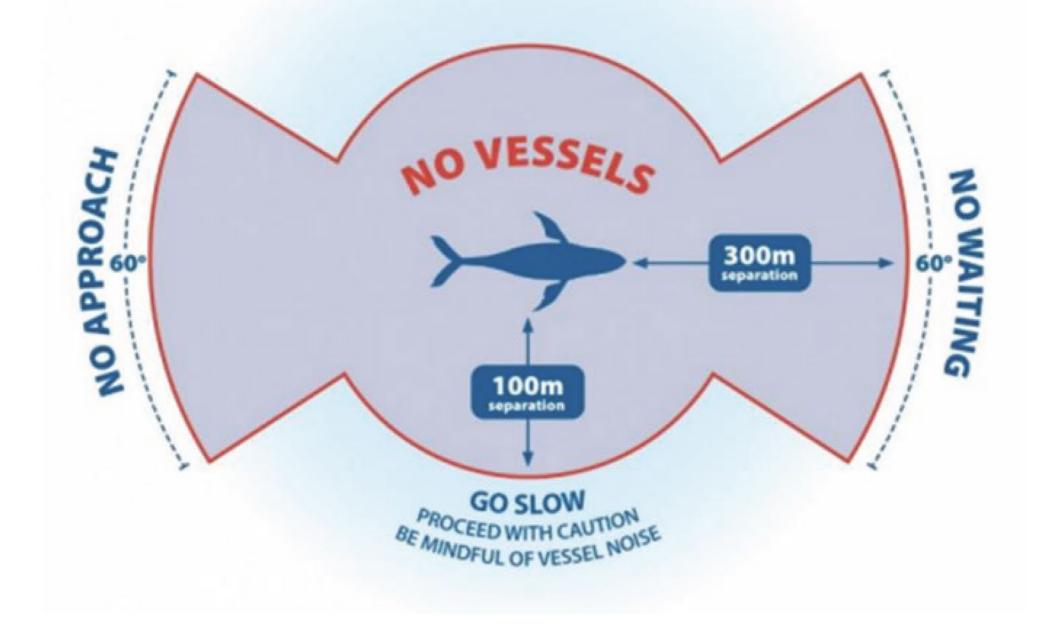
6.9 Appendix I: Humpback Whale Migration – July to October; Kimberley Ports Authority Environment Bulletin



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).





6.10 Appendix J: Commencement of the Action – Thunderbird Mineral Sands Project, WA, EPBC 2016/7648



Australian Government

Department of Agriculture, Water and the Environment

Ref: EPBC 2016/7648 Email: <u>epbcmonitoring@awe.gov.au</u>

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 <u>epbcmonitoring@awe.gov.au</u>. 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 <u>http://www.environment.gov.au/epbc/publications/annual-compliance-report-guidelines</u>

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 <u>http://www.environment.gov.au/epbc/compliance-and-enforcement/auditing.</u>

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

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

BROOME/HEAD OFFICE: 264 Port Drive, Broome WA 6725 | PO Box 1876, Broome WA 6725

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

PERTH: Level 6, 143 St Georges Terrace, Perth WA 6000