

### Supplementary Material

#### Conserving the Pilbara leaf-nosed bat: directions for future research and management

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## **SUPPLEMENTARY MATERIAL**

### **References included in the grey literature & literature review:**

- Astron Environmental Services (2015) Vertebrate fauna environmental impact assessment. Orebody 32 East AWT. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206290.
- Astron Environmental Services (2017a) Level 2 fauna assessment, May 2017. Warrambo Borefield. Prepared for Rio Tinto Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206293.
- Astron Environmental Services (2017b) Level 2 fauna assessment, September 2017. Warrambo Borefield. Prepared for Rio Tinto Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206292.
- Astron Environmental Services (2018) Flora and fauna survey June 2018. Burrup Peninsula Interconnector Pipeline. Prepared for DDG Operations. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206294.
- Astron Environmental Services (2019) Vegetation, flora and fauna survey September 2019. Bakers Syncline 19. Prepared for Rio Tinto. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206295.

Atlas Iron (2017a) Environment Protection and Biodiversity Conservation Act referral. Corunna Downs Project. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206301.

Atlas Iron (2017b) Significant species management plan. Corunna Downs. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206302.

Atlas Iron (2020) Significant species management plan. Miralga Creek DSO Project. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206303.

Atlas Iron (2021a) EPBC Compliance Report 2021 – Stage 1 and 2. Mt Webber Direct Shipping Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206824.

Atlas Iron (2021b) Significant species management plan. Sanjiv Ridge. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206825.

Atlas Iron (2022) Mt Webber direct shipping ore: EPBC Compliance report 2021-2022 – Stage 1 and 2. Western Australia, Australia. Available from: <https://www.atlasiron.com.au/wp-content/uploads/2022/07/Mt-Webber-DSO-EPBC-2012-6611-Compliance-Report-2021-2022.pdf>

Bamford Consulting Ecologists (2013) Pilbara leaf-nosed bat (*Rhinoicteris aurantia*) survey of the Warrigal North Deposit 18<sup>th</sup>-23<sup>rd</sup> October 2012. Prepared for Strategen Environmental Consultants. Western Australia, Australia. Available from the

Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206950.

Bat Call WA (2013) Survey of bat activity in the Weeli Wolli Creek system of the Hamersley Range, Pilbara, WA Report #10 wet season survey March 2013. Prepared for Hamersley Hope Management Services. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 932813.

Bat Call WA (2016) Mesa B and C Ghost bat roost cave assessment, July 2016. Prepared for Rio Tinto. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206084.

Bat Call WA (2017a) Echolocation survey of bat activity at caves CO-CA-01 and CO-CA-03. Atlas Iron Limited Corunna Downs Project, Pilbara WA, May to June 2017. Prepared for Stantec Australia. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206090.

Bat Call WA (2017b) Ghost bat roost cave assessment, April 2017. Robe Valley Mesa H. Prepared for Rio Tinto. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206089.

Bat Call WA (2018a) Acoustic survey of bat and Night Parrot activity. Rio Tinto, Greater Paraburdoo, Pilbara WA, July 2017 and April 2018. Prepared for Astron Environmental Services. Western Australia, Australia. Available from: [https://www.epa.wa.gov.au/sites/default/files/PER\\_documentation2/A6\\_1%20Greate](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/A6_1%20Greate)

[r%20Paraburdoo%20Level%202%20Fauna%20Survey%20%28Astron%202018c%29%20Part%205.pdf](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/A6_2%20WR%20Level%201%20Targeted%20Fauna%20Survey%20%28Astron%202018d%29%20Part%203.pdf)

Bat Call WA (2018b) Acoustic survey of bat and Night Parrot Activity, June 2018 Draft A. Rio Tinto, Paraburdoo Western Range, Pilbara Western Australia. Prepared for Astron Environmental Services. Western Australia, Australia. Available from: [https://www.epa.wa.gov.au/sites/default/files/PER\\_documentation2/A6\\_2%20WR%20Level%201%20Targeted%20Fauna%20Survey%20%28Astron%202018d%29%20Part%203.pdf](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/A6_2%20WR%20Level%201%20Targeted%20Fauna%20Survey%20%28Astron%202018d%29%20Part%203.pdf)

Bat Call WA (2020) Ratty Spring and Paraburdoo Pools Pilbara leaf-nosed bat monitoring program, 2015 to January 2020. Prepared for Rio Tinto. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206070.

Bat Call WA (2021) A review of Pilbara leaf-nosed bat ecology, threats and survey requirements. Prepared for the Department of Agriculture, Water and the Environment. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206199.

Biologic Environmental Survey (2013a) East Pilbara Independent Rail Project vertebrate fauna survey, July 2013. Prepared for Aurizon. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206309.

Biologic Environmental Survey (2013b) Targeted conservation significant fauna survey – Karijini tenement, September 2013. Prepared for BHP Billiton Iron Ore. Western

Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206308.

Biologic Environmental Survey (2014a) Level 1 targeted vertebrate fauna survey. Fortescue Marsh Tenement E46/684. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 2063105.

Biologic Environmental Survey (2014b) Orebody 25 targeted vertebrate fauna survey, January 2014. Prepared for BHP Billiton. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 2063105.

Biologic Environmental Survey (2014c) Orebody 31 vertebrate fauna survey. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206310.

Biologic Environmental Survey (2015) Central Pilbara ghost bat population and roost assessment: 2014. June 2015. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206312.

Biologic Environmental Survey (2017) Single phase level 2 fauna and detailed flora/vegetation survey, December 2017. Ministers North to Yandi Corridor. Prepared for BHP. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206488.

Biologic Environmental Survey (2018a) Level 1 vertebrate fauna assessment, September 2018. Caramulla. Prepared for BHP. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206494.

Biologic Environmental Survey (2018b) Level 1 vertebrate fauna assessment updated, September 2018. Prepared for Roy Hill Holdings. Western Australia, Australia. Prepared for BHP. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206491.

Biologic Environmental Survey (2018c) Targeted bat Assessment – July 2018. Warrawoona. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206492.

Biologic Environmental Survey (2018d) Targeted bat assessment – September 2017. March 2018. Warrawoona. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206489.

Biologic Environmental Survey (2019a) Level 1 vertebrate fauna survey, and desktop SRE and subterranean assessment, December 2017. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206490.

Biologic Environmental Survey (2019b) Pilbara leaf-nosed bat VHF study, March 2019. Western Range. Prepared for Rio Tinto Iron Ore. Western Australia, Australia.

Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206495.

Biologic Environmental Survey (2019c) Targeted bat assessment – April 2019. August 2019. Warrawoona. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206473.

Biologic Environmental Survey (2019d) Targeted vertebrate and short-range endemic invertebrate fauna assessment, January 2019. Shearer's West. Prepared for BHP Western Australia Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206472.

Biologic Environmental Survey (2019e) VHF Bat foraging studies, March 2019. Warrawoona Gold Project. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206474.

Biologic Environmental Survey (2020a) Conservation significant vertebrate fauna impact assessment, February 2020. Miralga Creek Project. Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206482.

Biologic Environmental Survey (2020b) Consolidated terrestrial fauna report, November 2020. McPhee Creek Project. Prepared for Roy Hill and Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206324.



Biologic Environmental Survey (2020c) Level 2 vertebrate fauna and short-range endemic invertebrate fauna assessment, February 2020. Miralga Creek. Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206481.

Biologic Environmental Survey (2020d) Pilbara leaf-nosed bat VHF study, March 2020. Western Range. Prepared for Rio Tinto Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206496.

Biologic Environmental Survey (2021a) Consolidated terrestrial fauna report, October 2021. McPhee Creek Project. Prepared for Roy Hill and Atlas Iron. Western Australia, Australia. Available from: [https://www.epa.wa.gov.au/sites/default/files/PER\\_documentation2/Appendix%20N.%20McPhee%20Creek%20Consolidated%20Terrestrial%20Fauna%20Report%20%28Biologic%202021a%29%20PART%201.pdf](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/Appendix%20N.%20McPhee%20Creek%20Consolidated%20Terrestrial%20Fauna%20Report%20%28Biologic%202021a%29%20PART%201.pdf)

Biologic Environmental Survey (2021b) Consolidated terrestrial fauna report, January 2021. Sanjiv Ridge Stage 2 Development Area. Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206324.

Biota Environmental Sciences (2022) Manuwarra Red Dog Highway stage 4 biological survey, April 2022. Prepared for Main Roads Western Australia. Western Australia, Australia. Available from: [https://www.epa.wa.gov.au/sites/default/files/PER\\_documentation2/4.%20MRDH%2](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/4.%20MRDH%2)

[0Revised%20Proposal%20ERD%20-%20Appendix%20%20-%20Biota%20%282021%29%20Biological%20Survey%20Report.pdf](#)

Blast It Global (2018) Assessment of blasting on the Klondyke Queen. A roost site for Pilbara-Leaf-nosed Bat and Ghost Bat, July 2018. Prepared for Calidus Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206624.

Bullen RD, Creese S (2014) A note on the impact on Pilbara leaf-nosed and ghost bat activity from cave sound and vibration levels during drilling operations. *The Western Australian Naturalist* **29**(3), 145-154.

Bullen RD, Reiffer S (2020) A record of movement of a Pilbara leaf-nosed bat between distant diurnal roosts using PIT tags. *Australian Mammalogy* **42**, 119-121.

Bullen RD, Reiffer S (2021) Measurement of roost entrance activity of Pilbara leaf-nosed bats (*Rhinonictoris aurantia*) using passive integrated transponder tags. *Australian Mammalogy* **43**, 311-318.

Coffey Environments Australia (2013) EPBC Act referral. Abydos DSO Project – Stage 2. Prepared for Atlas Iron for submission to the Department of Sustainability, Environment, Water, Population and Communities. Australian Government, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206687.

Cramer VA, Armstrong KN, Bullen RD, Ellis R, Gibson LA, McKenzie NL, O'Connell M, Spate A, van Leeuwen S (2016) Research priorities for the Pilbara leaf-nosed bat (*Rhinonictoris aurantia* Pilbara form). *Australian Mammalogy* **38**(2), 149-157.

Department of Agriculture, Water and Environment (DAWE) (2021) Variation of conditions attached to approval. West Angelas Iron Ore Mine – Deposits C, D and G. Robe River Mining. Australian Government, Australia. Available from the Department of

Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206619.

Dool SE (2020) Conservation genetic studies in bats. In: Ortega, J Maldonado J (eds) Conservation Genetics in Mammals. Springer, Cham, Switzerland.

Dunlop JA, Rayner K, Doherty TS (2017) Dietary flexibility in small carnivores: a case study on the endangered northern quoll, *Dasyurus hallucatus*. *Journal of Mammalogy* **98**(3), 858-866.

Ecologia Environment (2014a) Terrestrial fauna assessment. Greater West Angelas, January 2014. Prepared for Rio Tinto Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206629.

Ecologia Environment (2014b) Vertebrate fauna assessment, October 2014. Solomon Hub. Prepared for Fortescue Metals Group. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206630.

Ecologia Environment (2016a) Assessment on Proponent Information (API) environmental review document, August 2016. Pilbara Bulk Ore Transportation System Project. Prepared for Mineral Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206794.

Ecologia Environment (2016b) *EPBC ACT 1999* referral supporting documentation. Pilbara bulk ore transportation system project. Prepared for Mineral Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206796.

Ecologia Environment (2021) Mulga East Pilbara leaf-nosed bat assessment, January 2021.

Mulga East. Prepared for Strategen-JBS&G on behalf of Hancock Prospecting. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206688.

Ecoscape Australia (2013) Newman-Roy Hill transmission line survey – version 11. Prepared for Alinta Energy. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206689.

Ecoscape Australia (2015) Biological significance of external infrastructure & parts of Blacksmith Tenement. Prepared for Flinders Mines. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206690.

Ecoscape Australia (2018) Consolidated vertebrate fauna. Eliwana Project. Prepared for Fortescue Metals Group. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206691.

Ecological Management Services and Specialised Zoological (2019) Ghost bat technical report, November 2019. Union Reefs North Underground Project environmental impact assessment. Prepared for Kirkland Lake Gold. Queensland, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206470.

Environmental Protection Authority (EPA) (2014a) Report and recommendations of the Environmental Protection Authority. Koodaideri Iron Ore and Infrastructure Project. Mount Bruce Mining. Government of Western Australia, Western Australia, Australia.

Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 080502-1533.

EPA (2014b) Report and recommendations of the Environmental Protection Authority. North Star Magnetite Project. Fortescue Metals Group Iron Bridge (Aus). Government of Western Australia, Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 080502-1514.

EPA (2020a) Report and recommendations of the Environmental Protection Authority, September 2020. Miralga Creek DSO Project. Atlas Iron. Western Australia, Australia. Available from:

[https://www.epa.wa.gov.au/sites/default/files/EPA\\_Report/EPA%20Report%201689%20-%20Miralga%20Creek%20DSO%20Project%20-%20assessment%20report.pdf](https://www.epa.wa.gov.au/sites/default/files/EPA_Report/EPA%20Report%201689%20-%20Miralga%20Creek%20DSO%20Project%20-%20assessment%20report.pdf)

EPA (2020b) Report and recommendations of the Environmental Protection Authority, June 2020. Warrawoona Gold Project. Calidus Resources. Western Australia, Australia.

Available from:

[https://www.epa.wa.gov.au/sites/default/files/EPA\\_Report/EPA%20Report%201681%20-%20Warrawoona%20Gold%20Project%20-%20Assessment%20report\\_0.pdf](https://www.epa.wa.gov.au/sites/default/files/EPA_Report/EPA%20Report%201681%20-%20Warrawoona%20Gold%20Project%20-%20Assessment%20report_0.pdf)

360 Environmental (2018a). Wodgina Gas Pipeline. Targeted fauna survey. Prepared for Mineral Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206284.

360 Environmental (2018b) Targeted fauna survey, July 2018. Wodgina Aerodrome. Prepared for Mineral Resources. Western Australia, Australia. Available from:

<https://biocollect.ala.org.au/document/download/2018->

[11/Wodgina%20Aerodrome%20Targeted%20Fauna%20Survey%20Report%20-%20July%202018%20%28Rev%20%29.pdf](#)

Fortescue Metals Group (FMG) (2013) *Environment Protection and Biodiversity Conservation Act 1999* Christmas Creek expansion proposal. Referral of proposed action. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206940.

FMG (2014) Solomon Iron Ore project expansion - referral of proposed action. Prepared for the Department of Sustainability, Environment, Water, Population and Communities, Australian Government, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206941.

FMG (2018) Conservation significant fauna management plan. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206592.

GHD (2014) Vegetation, flora and fauna assessment, October 2014. Flinders Mines: Blacksmith Prospect Infrastructure Investigation. Prepared for Flinders Mines. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206692.

GHD (2019a) Fauna survey, August 2019. Jimblebar East and Caramulla. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206694.

GHD (2019b) Fauna survey, August 2019. North Jimblebar. Prepared for BHP Billiton Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206695.

GHD (2019c) Flora and fauna survey, August 2019. Horizon Power 124-KRT-DMP 132kV Line Upgrade Project. Prepared for Horizon Power. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206697.

GHD (2020) Flora and fauna survey, June 2020. Renewable Hydrogen Project. Prepared for Yara Pilbara Fertilisers. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206698.

GHD (2021) Fauna survey, September 2021. Solar PV Power Plant. Prepared for Woodside Power. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206699.

Hamersley Iron (2019) Brockman syncline proposal submission #4413. Prepared for EPA / Minister for Environment proposal approval under Part IV of the EP Act. Western Australia, Australia. Available from:

[http://epbnotices.environment.gov.au/\\_entity/annotation/fcfd5b9d-1ce0-e911-8923-00505684324c/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683270627356](http://epbnotices.environment.gov.au/_entity/annotation/fcfd5b9d-1ce0-e911-8923-00505684324c/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683270627356)

Kingfisher Environmental Consulting (2017) 2017 Targeted fauna assessment. Sulphur Springs. Prepared for Venturex Resources. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 631505.

Kingfisher Environmental Consulting (2020) 2020 Fauna assessment summary report. Telfer Gas Pipeline and Nifty Gas Lateral. Prepared for APA Group. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 631504.

McCabe, T. (2021) "Mulga East Pilbara leaf-nosed bat." 3 June 2021. [Letter from Ecologia Environment to Strategen-JBS&G]. Available from:

[https://www.epa.wa.gov.au/sites/default/files/Referral\\_Documentation/Mulga%20East%20Pilbara%20Lead%20nosed%20Bat%20Addendum.pdf](https://www.epa.wa.gov.au/sites/default/files/Referral_Documentation/Mulga%20East%20Pilbara%20Lead%20nosed%20Bat%20Addendum.pdf)

Mineral Resources (2018) Submission #3265 Wodgina lithium mine expansion proposal.

Prepared for the Department of the Environment and Energy, Australian Government, Australia. Available from:

<http://epbcnotices.environment.gov.au/entity/annotation/7f92ece6-8d52-e811-886f-005056ba00a8/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683267173117>

Mueller, R. (2017) Final report: Bio-inspired methods for producing adaptive beampatterns with diffracting baffle shapes. Virginia Polytechnic Institute and State University, Virginia, United States of America. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206822.

MWH Australia (2015) Level 2 terrestrial fauna surveys. Mesa B-C, Warrambo BWT and Highway to Tod Bore. Prepared for Rio Tinto Iron ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206633.

Ninox Wildlife Consulting (2013) A level 1 vertebrate fauna assessment of the proposed Fortescue River gas pipeline, Western Australia. Prepared for DDG and Matisse Consulting. Western Australia, Australia. Available from the Department of



Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206700.

Onshore Environmental (2019) Level 1 vertebrate fauna survey. Jimblebar North. Prepared for BHP Western Australia Iron Ore. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206701.

Outback Ecology (2013) Terrestrial fauna impact assessment. August 2013. Abydos DSO Project: Stage 2. Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206946.

Palmer R, Anderson H, Richards B (2020) Predator control baiting and monitoring program, Yarraloola and Red Hill, Pilbara region, Western Australia. 2019 Annual report– Year, 5. Department of Biodiversity, Conservation and Attractions, Western Australia, Australia. Available from:

[https://www.researchgate.net/publication/349237681\\_Predator\\_Control\\_Baiting\\_and\\_Monitoring\\_Program\\_Yarraloola\\_and\\_Red\\_Hill\\_Pilbara\\_Region\\_Western\\_Australia\\_2019\\_Annual\\_and\\_Final\\_Report\\_-\\_Year\\_5](https://www.researchgate.net/publication/349237681_Predator_Control_Baiting_and_Monitoring_Program_Yarraloola_and_Red_Hill_Pilbara_Region_Western_Australia_2019_Annual_and_Final_Report_-_Year_5)

Pavey CR, Vanderduys E (2021) Baseline assessment of the biodiversity of the Canning Basin. CSIRO, Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206620.

Pearse S (2019) “Eastern Range EPA Level 1 Targeted Fauna Survey, June/July 2018.” 15<sup>th</sup> April 2019. [Letter from Astron Environmental Services to Rio Tinto]. Available from: [https://www.epa.wa.gov.au/sites/default/files/PER\\_documentation2/A6\\_3%20ER%20Level%201%20Targeted%20Fauna%20Survey%20%28Astron%202018e%29.pdf](https://www.epa.wa.gov.au/sites/default/files/PER_documentation2/A6_3%20ER%20Level%201%20Targeted%20Fauna%20Survey%20%28Astron%202018e%29.pdf)

Phoenix Environmental Services (2014) Terrestrial fauna surveys for the Balla Balla Railway Project, November 2014. Final Report. Prepared for Preston Consulting on behalf of Rutila Resources. Western Australia, Australia. Available from:

[https://biocollect.ala.org.au/document/download/2020-08/BallaBallaRailway\\_FaunaSurveyReport.pdf](https://biocollect.ala.org.au/document/download/2020-08/BallaBallaRailway_FaunaSurveyReport.pdf)

Phoenix Environmental Services (2017) Environmental desktop review and reconnaissance site visit for the Mardie Salt Project, September 2017. Final Report. Prepared for BC Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206703.

Phoenix Environmental Services (2018) Supplementary flora and vegetation survey and terrestrial fauna survey for the Balla Balla Infrastructure Project, July 2018. Final Report. Prepared for Preston Consulting on behalf of Balla Balla Infrastructure Group. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206703.

Phoenix Environmental Services (2020) Level 2 targeted terrestrial fauna survey assessment for the Mardie Project, February 2020. Final Report. Prepared for BCI Minerals.

Western Australia, Australia. Available from:

[https://biocollect.ala.org.au/document/download/2021-11/Mardie%20Project%20Terrestrial%20Fauna%20Surveys%20Report\\_Phoenix%20Environmental%20Sciences.pdf](https://biocollect.ala.org.au/document/download/2021-11/Mardie%20Project%20Terrestrial%20Fauna%20Surveys%20Report_Phoenix%20Environmental%20Sciences.pdf)

Phoenix Environmental Services (2021) Reconnaissance flora and vegetation survey and fauna survey for the Croydon Gold Project, January 2021. Final. Prepared for Kairos Minerals. Western Australia, Australia. Available from the Department of Biodiversity,

Conservation and Attractions Library, Government of Western Australia, location 206708.

Pilbara Energy Company (2018) EPBC Act referral – Pilbara Transmission Project

Submission #3561. Western Australia, Australia. Available from:

[http://epbcnotices.environment.gov.au/\\_entity/annotation/5c3d519b-0007-e911-931a-00505684324c/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683268444435](http://epbcnotices.environment.gov.au/_entity/annotation/5c3d519b-0007-e911-931a-00505684324c/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683268444435)

Pintor A, Kennard M, Alverex-Romero JG, Hernandez S (2019) Prioritising threatened species and threatening processes across northern Australia: user guide for data. James Cook University, Queensland, Australia.

Preston Consulting (2015) Referral of a proposed action under the *Environment Protection and Biodiversity Conservation Act 1986*. May 2015. Pilbara Iron Ore Project – Stage 2.

Prepared for Flinders Mines. Western Australia, Australia. Available from:

[http://epbcnotices.environment.gov.au/\\_entity/annotation/0d1c0dec-e268-e511-b93f-005056ba00a7/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683268364892](http://epbcnotices.environment.gov.au/_entity/annotation/0d1c0dec-e268-e511-b93f-005056ba00a7/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683268364892)

Rio Tinto (2014) Rio Tinto significant species management plan. Western Australia, Australia.

Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206801.

Rio Tinto (2016a) Doggers Gorge flora, vegetation and fauna habitat assessment, January 2016.

Native vegetation clearing permit – supporting report. Western Australia, Australia.

Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206807.

Rio Tinto (2016b) Flora, vegetation and fauna habitat assessment at Arrochar, 2016. Native

vegetation clearing permit – supporting report. Prepared for Hamersley Iron. Western

Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206806.

- Rio Tinto (2016c) Flora, vegetation and fauna habitat assessment at Juna Downs, May 2016. Native vegetation clearing permit – supporting report. Prepared for Hamersley Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206804.
- Rio Tinto (2016d) Flora, vegetation and fauna habitat assessment at Koodaideri, August 2016. Native vegetation clearing permit – supporting report. Prepared for Hamersley Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206803.
- Rio Tinto (2017) Flora, vegetation and fauna habitat assessment, December 2017. Paraburdoo Additional Water Pipeline. Native vegetation clearing permit – supporting report. Prepared for the Pilbara Iron Company. Western Australia, Australia. Available from: [https://biocollect.ala.org.au/document/download/2018-05/0\\_Survey%20Report.pdf](https://biocollect.ala.org.au/document/download/2018-05/0_Survey%20Report.pdf)
- Rio Tinto (2018) Flora, vegetation and fauna habitat assessment at Bourne Highway, February 2018. Native vegetation clearing permit – supporting report. Prepared for Hamersley Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206809.
- Rio Tinto (2019) EPBC Act referral supporting documentation, August 2019. Brockman Syncline Proposal. Prepared for Hamersley Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206802.
- Rio Tinto (2021) Flora, vegetation and fauna habitat assessment at 7 Mile and 123-124 km Study Areas, August 2021. CPS 4442/6 – Supporting Report. Western Australia,

Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206811.

Roy Hill Iron Ore (2018) Roy Hill Iron Ore Mine – revised proposal submission #3777.

Prepared for the Department of the Environment and Energy. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206947.

Specialised Zoological (2018) Bat call identification from Mardie Station, Western Australia.

Acoustic analysis. 23 April 2018. Prepared for Phoenix Environmental Sciences.

Western Australia, Australia. Available from:

[MardieSaltProject\\_TerrestrialFaunaSurveys\\_FinalReport20190414.pdf](#)  
([epa.wa.gov.au](http://epa.wa.gov.au))

Stantec (2016a) Terrestrial vertebrate fauna survey, November 2016. Corunna Downs Project.

Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206405.

Stantec (2016b) Vertebrate fauna impact assessment, November 2016. Corunna Downs

Project. Prepared for Atlas Iron. Western Australia, Australia. Available from:

<http://epbcnotices.environment.gov.au/entity/annotation/c399a38b-1fe1-e611-bdfe-005056ba00a8/a71d58ad-4cba-48b6-8dab-f3091fc31cd5?t=1683260878619>

Stantec (2017) “Corunna Downs Road and Limestone-Marble Bar Road intersection: fauna

desktop assessment.” 20<sup>th</sup> May 2017. [Letter]. Available from:

<https://ftp.dwer.wa.gov.au/permit/7613/CPS%207613-1%20-%20Fauna%20Survey.pdf>

Stantec (2018a) Level 1 fauna survey, targeted conservation significant fauna survey & desktop assessment, September 2018. Wodgina Project. Prepared for Mineral Resources.

Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206813.

Stantec (2018b) Terrestrial vertebrate fauna survey, January 2018. Corunna Downs Project. Prepared for Atlas Iron. Western Australia, Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206403.

Start AN, McKenzie NL, Bullen RD (2019) Notes on bats in the diets of ghost bats (*Macroderma gigas*: Megadermatidae) in the Pilbara region of Western Australia. *Records of the Western Australian Museum* **34**(1), 51-53.

SW Environmental (2021) Biodiversity survey report, May 2021. Junja Solar Farm, Port Hedland. Prepared for NGH Consulting. Western Australia, Australia. Available from: <https://ftp.dwer.wa.gov.au/permit/9581/CPS%209581-1%20-%20Supporting%20document%20-%20Junja%20Solar%20Farm%20Flora%20and%20Fauna%20Survey%20Report.PD>

## F

Umbrello L, Bullen R, Shaw R, McArthur S, Byrne M, van Leeuwen S, Ottewell K (2022) Extensive gene flow in a threatened bat (*Rhinoicteris aurantia*) in an arid landscape. *Global Ecology and Conservation* **37**, e02154.

Western Wildlife (2019a) Level 1 vertebrate fauna survey 2018, January 2019. Woodie Woodie Mine. Prepared for Consolidated Minerals. Western Australia. Available from the Department of Biodiversity, Conservation and Attractions Library, Government of Western Australia, location 206622.

Western Wildlife (2019b) Vertebrate fauna survey gap analysis, October 2019. Woodie Woodie Mine. Prepared for Consolidated Minerals. Western Australia, Australia.

Available from the Department of Biodiversity, Conservation and Attractions Library,  
Government of Western Australia, location 206621.

Wilson, L. A. B., Hand, S. J., Lopez-Aguirre, C., Archer, M., Black, K. H., Beck, R. M. D.,  
Armstrong, K. N., and Wroe, S. (2016). Cranial shape variation and phylogenetic  
relationships of extinct and extant Old World leaf-nosed bats. *Alcheringa* **40**, 509-  
524.