Footnote Index

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1	ASX release 1 March 2023	Refer to **Supplementary Technical Report 42** - Ministry of Business, Innovation & Employment - Briefing for the Incoming Minister for Resources – 27 November 2023
2	Manuka website: https://www.manukaresources.com.au/	See hyperlink
3	This equates to between 12 and 19 nautical miles ("NM").	Not applicable
4	NZIER. 2025. Economic impact assessment of TTR's Taranaki VTM Iron Sands Project A report for Trans-Tasman Resources Limited (Attachment 2)	Refer to **Attachment 1** to the TTR FTAA Application
5	Taranaki-Whanganui Conservation Board v Environmental Protection Authority [2018] NZHC 2217.	https://www.justice.govt.nz/jdo_documents/workspace___SpacesStore_a07d46c8_ded0_46e9_aa05_56a6e35accca.pdf
6	Trans-Tasman Resources Ltd v Taranaki-Whanganui Conservation Board [2020] NZCA 86.	https://www.justice.govt.nz/jdo_documents/workspace___SpacesStore_9b1f872e_99ed_4316_a72e_265d9d81ef7c.pdf
7	Trans-Tasman Resources Ltd v Taranaki-Whanganui Conservation Board [2021] NZSC 127.	www.courtsofnz.govt.nz/assets/cases/2021/2021-NZSC-127.pdf
8	See section 8.2, below.	Not Applicable
9	Siecap - Taranaki VTM Project Pre-Feasibility Study Offshore Iron Sands Project – March 2025b (Attachment 3).	Refer to **Attachment 3a and 3b** to the TTR FTAA Application
10	Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, 2012. "The JORC Code – 2012 Edition" http://www.jorc.org/docs/jorc_code2012.pdf	See hyperlink

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11	Siecap - Metallurgical Review: Recovery of Vanadium from Taranaki VTM Project NZ - February 2025a (Attachment 4).	Refer to **Attachment 4** to the TTR FTAA Application
12	https://www.mbie.govt.nz/building-and-energy/energy-and-natural-resources/minerals-and-petroleum/critical-minerals-list	See hyperlink
13	New Zealand Ministry of Business, Innovation, and Employment (MBIE) (2025). A Minerals Strategy for New Zealand to 2040: ISBN (print): 978-1-991316-29-5.	https://www.beehive.govt.nz/sites/default/files/2025-01/202501%20A%20Minerals%20Strategy%20for%20New%20Zealand%20to%202040.pdf
14	Significant Wave Height is the average of the highest one-third (33%) of waves (measured from trough to crest) that occur in a given period.	Not applicable
15	A Dynamic Positioning notation refers to station keeping capability, reliability and redundancy. For a vessel with the notation DP-2, a loss of position may not occur in the event of a single fault in any active component or system.	Not applicable
16	ABS Classification Society, an International Association of Classification Societies (IACS) certified body.	Not applicable
17	Comminution is the reduction of solid materials from one average particle size to a smaller average particle size, by crushing, grinding, cutting, vibrating, or other processes.	Not applicable
18	Orpin A.R., 2013. "Geological Desktop Summary – Active Permit areas 50753 (55581), 54068 and 54272, South Taranaki Bight – Prepared for Trans-Tasman Resources Limited" Unpublished NIWA Client Report WLG2013-44, August 2013, 42pp + 6 appendixes Updated November 2015.	Refer to **Supplementary Technical Report 11 and 1a - f** - NIWA Geological Desktop Summary – Active Permit areas 50753, (55581), 54068 and 54272, South Taranaki Bight – November 2015

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19	Chappell, P.R., 2014. *"The Climate and Weather of Taranaki"* NIWA Science and Technology Series Number 64. ISSN 1173-0382, 40 pp. 2014.	https://niwa.co.nz/sites/default/files/Taranaki%20Climate%20WEB.pdf
20	From all available data in 2014.	Not applicable
21	MacDonald, I., Budd, R., Bremner, D., Edhouse, S. 2012. " South Taranaki Bight Iron Sand Mining: Oceanographic measurements data report" NIWA Client Report No: HAM2012-147, Updated November 2015a.	Refer to **Supplementary Technical Report 12** - NIWA South Taranaki Bight Iron Sand Mining: Oceanographic Measurements Data Report – November 2015
22	MacDonald, I., Ovenden, R., Hume, T. 2012 "South Taranaki Bight Iron Sand Mining: Shoreline Monitoring Data Report" NIWA Client Report No: HAM2012-085, June 2012. Updated November 2015b.	Refer to **Supplementary Technical Report 14** - NIWA South Taranaki Bight Iron Sand Mining: Shoreline Monitoring Data Report – November 2015
23	MacDonald, I., Gall, M., Bremner, D. 2013. "Nearshore Optical Water Quality in the South Taranaki Bight" NIWA Client Report No: HAM2013-040, Updated November 2015c.	Refer to **Supplementary Technical Report 13** - NIWA Nearshore Optical Water Quality in the South Taranaki Bight – November 2015
24	Huber, M., Yestes, M., Taylor, G., 2014. "Assessment Of Effects On The Physical Environment From The Trans Tasman Resources Marine Consent Application: Oceanographic And Coastal Processes" SKM review for EPA. February 2014. 24 pp.	Refer to **Footnote Document FN24** - EEZ000004-Michael-Huber-Physical-Environment-Marine-Mammals-and-Fish-and-Benthic-Ecology
25	Environmental Protection Agency, Joint statement of experts in the field of effects on bathymetry and oceanographic processes. Dated 20 March 2014	Refer to **Footnote Document FN25** - EEZ000004-Effects-on-Bathymetry-and-Oceanographic-Processes-joint-witness-statement
26	26. Hume, T., Gorman, R., Green, M., MacDonald, I., 2013. "Coastal stability in the South Taranaki Bight - Phase 2 - Potential effects of offshore sand extraction on physical drivers and coastal stability" NIWA Client Report No: HAM2013-082. October 2013. 135 pp. Updated November 2015.	Refer to **Supplementary Technical Report 6** - NIWA Coastal Stability in the South Taranaki Bight – Phase 2 – Potential effects of offshore sand extraction on physical drivers and coastal stability – November 2015

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27	Vopel K, Robertson J and Wilson P.S. (2013) "Iron sand extraction in South Taranaki Bight: effects on seawater trace metal concentrations" AUT Client report: TTR 20138 October 2013	Refer to **Supplementary Technical Report 41** - Auckland University of Technology – Iron Sand extraction in the South Taranaki Bight: effects on trace metal contents of sediment and seawater – September 2013
28	Boffa Miskell – Visual Effects Report and Graphic Supplement – November 2015	Refer to **Supplementary Technical Report 31 and 31a-c** - Boffa Miskell – Visual Effects Report and Graphic Supplement – November 2015 and Supp Part 1 to 3
29	Anderson. T.J., MacDiarmid, A., Stewart, R., 2013. "Benthic habitats, macrobenthos and surficial sediments of the nearshore South Taranaki Bight" NIWA Client Report No: NEL2013-012. June 2013. 44 pp. Updated November 2015.	Refer to **Supplementary Technical Report 2** - NIWA Benthic Habitats, Macrobenthos and Surficial Sediments of the Nearshore South Taranaki Bight – November 2015
30	Beaumont, J., Anderson, T.J., MacDiarmid, A.B., 2013. "Benthic flora and fauna of the Pātea Shoals Region, South Taranaki Bight" NIWA Client Report No: WLG2012-55. October 2013. 183 pp. Updated November 2015.	Refer to **Supplementary Technical Report 3** - NIWA Benthic Flora and Fauna of the Patea Shoals Region, South Taranaki Bight – November 2015
31	PPA = Proposed Project Area; Kupe Pipe PA = Kupe Pipe protected area; KOPS no go zone = Kupe Oil Platform Safety no go zone. Depth contours are in 10ters em intervals. *A-*C indicate the areas initially considered by TTR for deposition of de-ored sediments before rejecting these options, *D indicates TTR's proposed extraction/deposition area/PPA. '*' Indicates the inner shelf area prior to contraction of the PPA to the area shown.	Not applicable
32	Morrison et al. (2022). Offshore subtidal rocky reef habitats on Pātea Bank, South Taranaki. NIWA Client Report 2022229AK, 211 p. see Policy-and-Planning-February-2023-web-version-v2.pdf (trc.govt.nz)	See hyperlink

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33	Lundquist, C., Stephenson, F., McCartain, L., Watson, S., Brough, T., Nelson, W., Neill, K., Anderson, T., Anderson, O., Bulmer, R., Gee, E., Pinkerton, M., Rowden, A., Thompson, D. (2020) Evaluating Key Ecological Areas datasets for the New Zealand Marine Environment. NIWA Client Report 2020109HN. Prepared for the Department of Conservation, 138 p. https://www.doc.govt.nz/globalassets/documents/conservation/marine-and-coastal/marine-protected-areas/mpa-publications/evaluating-kea-datasets-2020.pdf	See hyperlink
34	Notes: a) The green bars represent the mean number of individuals (N) collected; b) The light brown bars represent the mean number of species/OTU's (S) collected. c-f) Mean numbers per site of: c) Euchone sp A; d) Syllid spp; e) Aricidae spp; and f) Pisione oerstedii, per site. Relative scale bars are provided in the legend of each graph.	Not applicable
35	Ching, N., MacDiarmid, A., Anderson, O., Beaumont, J., Gorman, R., Hancock, N., Julian, K., Schwarz, J., Stevens, C., Sturman, J., Thompson, D., Torres, L., 2011. "South Taranaki Bight Factual Baseline Environmental Report" NIWA Client Report: WLG2011-43. September, 2011. 189 pp. Updated November 2015.	Refer to **Supplementary Technical Report 1 and 1a-d** - NIWA South Taranaki Bight Factual Baseline Environmental Report – November 2015
36	Pinkerton, M., Schwarz, J., Gall, M., Beaumont, J. (2013). Satellite ocean-colour remote sensing of the South Taranaki Bight from 2002 to 2012. NIWA Client Report No: WLG2013-14 Rev 1, 74 p.	Refer to **Footnote Document FN36** - EEZ000004-Satellite-ocean-colour-remote-sensing-of-the-South-Taranaki-Bight-from-2002-to-2012-NIWA-October-2013
37	MacDiarmid, A.; Thompson, D.; Grieve, J. 2015a. "Assessment of the scale of marine ecological effects of seabed mining in the South Taranaki Bight: Zooplankton, fish, kai, moana, sea birds, and marine mammals". NIWA Client Report: WLG2015-13. Report prepared for Trans-Tasman Resources Ltd. September 2015a.	Refer to **Supplementary Technical Report 17** - NIWA Assessment of the Scale of Marine Ecological Effects of Seabed Mining in the South Taranaki Bight – September 2015

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38	Bradford-Grieve, J., Stevens, C., 2013 "Zooplankton and the processes supporting them in Greater Western Cook Strait" NIWA Client Report No: WLG2013-9. April 2013. 22 pp. Updated November 2015.	Refer to **Supplementary Technical Report 19** - NIWA Zooplankton and the Processes Supporting them in Greater Western Cook Strait – November 2015
39	MacDiarmid, A., Anderson, O., Sturman, J., 2013. "South Taranaki Bight Fish and Fisheries" NIWA Client Report No: WLG2012-13. October 2013. 70 pp. Updated November 2015b.	Refer to **Supplementary Technical Report 10 and 10a - c** - NIWA South Taranaki Bight Fish and Fisheries – November 2015 and Appendices
40	Lundquist, C., Stephenson, F., McCartain, L., Watson, S., Brough, T., Nelson, W., Neill, K., Anderson, T., Anderson, O., Bulmer, R., Gee, E., Pinkerton, M., Rowden, A., Thompson, D. (2020) Evaluating Key Ecological Areas datasets for the New Zealand Marine Environment. NIWA Client Report 2020109HN. Prepared for the Department of Conservation. https://www.doc.govt.nz/globalassets/documents/conservation/marine-and-coastal/marine-protected-areas/mpa-publications/evaluating-kea-datasets-2020.pdf	See hyperlink
41	41. Smith, A.N., Duffy, C., Anthony, J., Leathwick, J.R. (2013) Predicting the distribution and relative abundance of fishes on shallow subtidal reefs around New Zealand. Department of Conservation, Wellington. https://www.doc.govt.nz/documents/science-and-technical/sfc323entire.pdf	See hyperlink
42	Smith, A.N.H. (2008). "Predicting the distribution and relative abundance of fishes on shallow subtidal reefs around New Zealand". NIWA Client Report WLG2008-9, 175 pp.	Refer to **Footnote Document FN42** - Distributions of reef fishes
43	Childerhouse S (2023) Expert evidence of Dr Simon John Childerhouse on behalf of Trans Tasman Resources Limited. 19 May 2023.	Refer to **Supplementary Technical Report 4c** - Evidence Dr Simon Childerhouse - effects on marine mammals - May 2023

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44	Martin Cawthorn Associates Ltd, 2013. "Cetacean Monitoring Report" Document No: TTR071013. October 2013. 35pp. Updated November 2015.	Refer to **Supplementary Technical Report 24** - Martin Cawthorn Associates Ltd – Cetacean Monitoring Report – November 2015
45	Torres, L.G., Compton, T., Fromant, A., 2013. "Habitat models of southern right whales, Hector's dolphin, and killer whales in New Zealand" NIWA Client Report No: WLG2012-28. October 2013. 61 pp. Updated November 2015.	Refer to **Supplementary Technical Report 4** - NIWA Habitat Models of Southern Right Whales, Hector's Dolphin, and Killer Whales in New Zealand – November 2015
46	Derville S et al. (2016) Environmental Correlates of Nearshore Habitat Distribution by the Critically Endangered Māui Dolphin. Marine Ecology Progress Series 551: 261–75.	Refer to **Footnote Document FN46** - Environmental correlates of nearshore habitat of Maui Dolphin
47	Stephenson F et al. (2020a) Spatial distribution modelling of New Zealand cetacean species. New Zealand Aquatic Environment and Biodiversity Report No. 240. May 2020.	Refer to **Footnote Document FN47** - Spatial distribution modelling of New Zealand cetacean species
48	Stephenson F et al. (2020b) Modelling the Spatial Distribution of Cetaceans in New Zealand Waters. Diversity & Distributions 26(4): 495–516, https://doi.org/10.1111/ddi.13035	See hyperlink
49	MacKenzie DI, Fletcher D, Meyer S, Pavanato H (2022) Updated spatially explicit fisheries risk assessment for New Zealand marine mammal populations. New Zealand Aquatic Environment and Biodiversity Report No. 290. 218 p. McConnell HM (2022) Statement of Evidence of Helen Maree.	Refer to **Footnote Document FN49** - Updated Risk Assessment For NZ Marine Mammals
50	Childerhouse S (2023) Expert evidence of Dr Simon John Childerhouse on behalf of Trans Tasman Resources Limited, para 16. 19 May 2023.	Refer to **Supplementary Technical Report 4c** - Evidence Dr Simon Childerhouse - effects on marine mammals - May 2023

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51	Department of Conservation (DOC) (2023) Data extract from DOC marine mammal sighting and stranding databases including: (i) Māui and Hector's dolphin database incidents; (ii) Māui and Hector's dolphin database sightings; (iii) NZ marine mammal dataset incidents; and (iv) NZ marine mammal database sightings. Extracted on 1 May 2023. Data available from Department of Conservation.	https://www.doc.govt.nz/mauisightings
52	Barlow DR, Torres LG (2021) Planning Ahead: Dynamic Models Forecast Blue Whale Distribution with Applications for Spatial Management. The Journal of Applied Ecology 58(11): 2493–504. https://doi.org/10.1111/1365-2664.13992	See hyperlink
53	Barlow DR et al. (2023a) Temporal Occurrence of Three Blue Whale Populations in New Zealand Waters from Passive Acoustic Monitoring. Journal of Mammalogy 104(1): 29–38. https://doi.org/10.1093/jmammal/gyac106	See hyperlink
54	Barlow DR et al. (2023b) Environmental Conditions and Marine Heatwaves Influence Blue Whale Foraging and Reproductive Effort. Ecology and Evolution 13(2):e9770. https://doi.org/10.1002/ece3.9770	See hyperlink
55	Number of marine mammal sightings and incidents in the Taranaki region of interest up to 27 April 2023. When the species identification was unknown, but the record confirmed what group the animal(s) were, this was counted under the species groupings in italics. Data source: DOC marine mammal sighting and incident database (downloaded on 30 April 2023); Additional blue whale sightings provided by Dr. L. Torres in 2017).	Not applicable

Footnote Number	Footnote Reference in TTR FTA Application	Location
56	Data source: DOC marine mammal sighting and incident database (downloaded on 30 April 2023); Additional blue whale sightings provided by Dr. L. Torres in 2017).	Not applicable
57	When the species was unknown, but the record confirmed what group the animal(s) were, this was counted under the species groupings in italics. Data source: DOC marine mammal sighting and incident database (downloaded on 30 April 2023); Additional blue whale sightings provided by Dr. L. Torres in 2017).	Not applicable
58	Adapted from Figure 6 from Barlow & Torres (2021). Anthropogenic pressures are overlaid, including petroleum and mineral permit areas (as of May 2021), ports (blue squares) and active oil rigs (red triangles).	Refer to hyperlink in footnote 52.
59	Adapted from Figure 3 in Barlow et al. (2023a). The y-axis represents the number of hours per day that blue whale song was detected, and the x-axis represents the recording period. Grayed out sections represent gaps in recording due to hydrophone refurbishment.	Refer to **Footnote Document FN59** - Temporal occurrence of three blue whale populations in NZ - Barlow 2023
60	Adapted from Figure 3 in Barlow et al. (2023b). Average annual cycle in the song intensity index (dark blue) and D calls per day of the year, computed across all hydrophone locations and the entire recording period.	Refer to **Footnote Document FN60** - Environmental conditions and marine heatwaves influence blue whale foraging
61	Adapted from Figure 1 in Barlow et al. 2020. Black lines represent vessel tracklines during survey effort. Yellow circles represent blue whale sighting locations, scaled by number of blue whales recorded. CTD casts are shown as red crosses. Inset map of New Zealand in the 2014 panel indicates the location of the STB region within the white box.	Not applicable

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62	Barlow DR et al. (2018) Documentation of a New Zealand Blue Whale Population Based on Multiple Lines of Evidence. Endangered Species Research 36: 27–40. https://doi.org/10.3354/esr00891	See hyperlink
63	Barlow DR et al. (2020) Links in the Trophic Chain: Modelling Functional Relationships Between in Situ Oceanography, Krill, and Blue Whale Distribution Under Different Oceanographic Regimes. Marine Ecology Progress Series 642: 207–25. https://doi.org/10.3354/meps13339	See hyperlink
64	Barlow DR et al. (2021) Temporal and Spatial Lags Between Wind, Coastal Upwelling, and Blue Whale Occurrence. Scientific Reports 11(1): 6915–6915. https://doi.org/10.1038/s41598-021-86403-y	See hyperlink
65	Goetz KT et al. (2022) First Satellite-tracked Movements of Pygmy Blue Whales (Balaenoptera Musculus Brevicauda) in New Zealand Waters. Marine Mammal Science 38(2): 742–55. https://doi.org/10.1111/mms.12876	See hyperlink
66	Warren VE et al. (2021a) Marine Soundscape Variation Reveals Insights into Baleen Whales and Their Environment: a Case Study in Central New Zealand. Royal Society Open Science 8(3): 201503– 201503, https://doi.org/10.1098/rsos.201503	See hyperlink
67	Warren VE et al. (2021b) Passive Acoustic Monitoring Reveals Spatio-Temporal Distributions of Antarctic and Pygmy Blue Whales Around Central New Zealand. Frontiers in Marine Science 7: https://doi.org/10.3389/fmars.2020.575257	See hyperlink

68	Baker et al. (2019); Baker et al. (2016); Buckle et al. (2017); Constantine et al. (2021); Constantine (2019); Cooke et al. (2019); de Jager et al (2019); DOC (2023); DOC & FNZ (2021); Derville et al. (2016); FNZ (2022); FNZ & DOC (2020); Forney et al. (2017); Heimeier et al. (2018); MacKenzie et al. (2022); McPherson et al. (2019); Nelson & Radford (2019); Ogilvy et al. (2022); Roberts & Hendricks (2020); Roberts et al. (2019, 2021); Slooten & Dawson (2020a,b), Slooten (2020)	Baker et al. (2019) - Refer to **Footnote Document FN68a**; Baker et al. (2016) - Refer to **Footnote Document FN86**; Buckle et al. (2017) - Refer to **Footnote Document FN68b**; Constantine et al. (2021) - Refer to **Footnote Document FN80**; Constantine (2019) - Refer to **Footnote Document 68c**; Cooke et al. (2019) - Refer to **Footnote Document FN71**; de Jager et al (2019) - Refer to hyperlink in footnote 72; DOC (2023) - Refer to hyperlink in footnote 51; DOC & FNZ (2021) - Refer to **Footnote Document 68d**; Derville et al. (2016) - Refer to **Footnote Document FN46**; FNZ (2022) - Refer to **Footnote Document FN68e**; FNZ & DOC (2020) - Refer to footnote 250; Forney et al. (2017) - Refer to hyperlink in footnote 69; Heimeier et al. (2018) - Refer to **Footnote Document FN68f**; MacKenzie et al. (2022) - Refer to **Footnote Document FN49**; McPherson et al. (2019) - Refer to **Footnote Document FN79**; Nelson & Radford (2019) - Refer to **Footnote Document FN68g**; Ogilvy et al. (2022) - Refer to hyperlink in footnote 81; Roberts & Hendricks (2020) - Refer to **Footnote Document FN68h**; Roberts et al. (2019, 2021) - Refer to **Footnote Document FN70 & FN88**; Slooten & Dawson (2020a,b) – Refer to hyperlink in footnote 75 & 76; Slooten (2020) - Refer to hyperlink in footnote 74.

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69	Forney KA et al. (2017) Nowhere to Go: Noise Impact Assessments for Marine Mammal Populations with High Site Fidelity. Endangered Species Research 32: 391–413. https://doi.org/10.3354/esr00820	See hyperlink
70	Roberts JO et al. (2019) Spatial Risk Assessment of Threats to Hector's and Māui Dolphins (Cephalorhynchus Hectori). Ministry for Primary Industries, Manatū Ahu Matua.	Refer to **Footnote Document FN70** - Spatial risk assessment Maui Hectors dolphin
71	Cooke JG et al. (2019) Population Dynamic Modelling of the Māui Dolphin Based on Genotype Capture-Recapture with Projections Involving Bycatch and Disease Risk. Fisheries New Zealand, Tini a Tangaroa.	Refer to **Footnote Document FN71** - Population modelling Maui dolphin
72	de Jager M et al. (2019) Modelling the Spatial Dynamics of Māui Dolphins Using Individual-Based Models. Ecological Modelling 402: 59–65. https://doi.org/10.1016/j.ecolmodel.2019.04.009	See hyperlink
73	Wright AJ, Tregenza N (2019) CPOD Successful in Trial for Detecting Māui Dolphin Outside Harbours. New Zealand Journal of Marine and Freshwater Research 53(3): 451–459. https://doi.org/10.1080/00288330.2019.1619597	See hyperlink
74	Slooten E, (2020) Effectiveness of Current Protection for Māui Dolphin. The Journal of Cetacean Research and Management 21(1): 151–55, https://doi.org/10.47536/jcrm.v21i1.135	See hyperlink
75	Slooten E, Dawson SM (2020a). Critique of the Scientific Basis for Currently Proposed Protection Options for Hectors and Māui Dolphins. bioRxiv https://doi.org/10.1101/2020.05.15.098889	See hyperlink

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76	Slooten E, Dawson SM (2020b) Updated Population Viability Analysis, Population Trends and PBRs for Hector's and Māui Dolphin. bioRxiv https://doi.org/10.1101/2020.03.25.008839	See hyperlink
77	Slooten E, Dawson SM (2021) Delays in Protecting a Small Endangered Cetacean: Lessons Learned for Science and Management." Frontiers in Marine Science 8: https://doi.org/10.3389/fmars.2021.606547	See hyperlink
78	https://www.doc.govt.nz/globalassets/documents/conservation/native-animals/marine-mam78mals/maui-tmp/hectors-and-maui-dolphinthreat-management-plan-2020.pdf	Refer to **Footnote Document FN78** - Hectors and Maui Dolphin Threat Management Plan
79	McPherson C et al. (2019) Underwater Sound Propagation Modelling to Illustrate Potential Noise Exposure to Māui Dolphins from Seismic Surveys and Vessel Traffic on West Coast North Island, New Zealand.	Refer to **Footnote Document FN79** - Underwater sound propagation modelling
80	Constantine R et al. (2021) Estimating the Abundance and Effective Population Size of Māui Dolphins (Cephalorhynchus hectori maui) in 2020-2021 using Microsatellite Genotypes, with Retrospective Matching to 2001. Creative Services Team, Department of Conservation.	Refer to **Footnote Document FN80** - Maui dolphin abundance
81	Ogilvy C et al. (2022) Diet Variation in a Critically Endangered Marine Predator Revealed with Stable Isotope Analysis." Royal Society Open Science 9(8): 220470–220470. https://doi.org/10.1098/rsos.220470.	See hyperlink
82	Stephenson F et al. (2021) Cetacean Conservation Planning in a Global Diversity Hotspot: Dealing with Uncertainty and Data Deficiencies. Ecosphere 12(7): https://doi.org/10.1002/ecs2.3633.	See hyperlink

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83	Carroll EL et al. (2013) Accounting for Female Reproductive Cycles in a Superpopulation Capture-Recapture Framework. Ecological Applications (23(7): 1677–90. https://doi.org/10.1890/12-1657.1	See hyperlink
84	Reeves IM et al. (2022) Population genomic structure of killer whales (Orcinus orca) in Australian and New Zealand waters. Marine Mammal Science 38: 151-174.	https://onlinelibrary.wiley.com/doi/epdf/10.1111/mms.12851
85	Abraham ER et al. (2021) Estimated Captures of New Zealand Fur Seal, Common Dolphin, and Turtles in New Zealand Commercial Fisheries, to 2017-18. Ministry for Primary Industries.	https://www.dragonfly.co.nz/publications/abraham_mammals_17-18.html
86	Baker CS, Chilvers BL, Childerhouse S, Constantine R, Currey R, Mattlin R, van Helden A, Hitchmough R, Rolfe J (2016) Conservation status of New Zealand marine mammals, 2013. New Zealand Threat Classification Series 14. Department of Conservation, Wellington, New Zealand. 18 p.	Refer to **Footnote Document FN86** - Conservation status of New Zealand marine mammals
87	Thompson, D., 2023. Expert evidence of David Thompson on behalf of Trans Tasman Resources Limited. https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Evidence-Applicants-evidence/TTR-David-Thompson-evidence-statement.pdf	Refer to **Supplementary Technical Report 8c** - Evidence statement THOMPSON - May 2023
88	https://www.epa.govt.nz/assets/Uploads/Documents/Marine-Activities-EEZ/Activities/THOMPSON-Final-Table-1.pdf	See hyperlink
89	Robertson, H.A., Baird, K.A., Elliott, G.P., Hitchmough, R.A., McArthur, N.J., Makan, T.D., Miskelly, C.M., O'Donnell, C.F.J., Sagar, P.M., Scofield, R.P., Taylor, G.A., Michel, P. 2021. Department of Conservation. 'New Zealand Threat Classification Series 36. Conservation status of birds in Aotearoa New Zealand, 2021'	Refer to **Footnote Document FN88** - Conservation status of birds in Aotearoa New Zealand, 2021

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90	http://www.iucnredlist.org/	See hyperlink
91	Taxonomy and New Zealand conservation status classification follows Robertson et al. (2021). Taxa ranked according to New Zealand conservation status, and then alphabetically by scientific name. International Union for Conservation of Nature (IUCN) Red List classifications follow data at http://www.iucnredlist.org/ (accessed May 2023). Relative abundance scores reflect the New Zealand population size for each species, not an estimate of the population likely to occur within the STB region. Relative abundance scores follow Townsend et al. (2008), whereby a score of 1 = < 250 mature individuals (defined as an individual capable of reproduction and here calculated as double the best estimate of number of annual breeding pairs for each species), 2 = 250-1,000, 3 = 1,000-5,000, 4 = 5,000-20,000, 5 = 20,000-100,000 and 6 = > 100,000 mature individuals. Abundance scores are based on information available at http://nzbirdsonline.org.nz/ (accessed May 2023) and are provided for those species that breed in New Zealand.	Not applicable
92	Rob Greenaway & Associates, 2013. "Trans-Tasman Resources Ltd Sea Bed Mining, South Taranaki – Recreation and Tourism Assessment of Effects" 15 October 2013, updated November 2015. 43 pp.	Refer to **Supplementary Technical Report 29** - Rob Greenaway & Associates – Recreation and Tourism Assessment of Effects – November 2015
93	Marico Marine NZ Ltd. (2013) "South Taranaki Bight Marine Traffic Study" Report Number: 13UK934. July 2013. 62 pp. Updated November 2015.	Refer to **Supplementary Technical Report 27** - Marico Marine – South Taranaki Bight Marine Traffic Study – December 2015
94	Gibbs, N. South Taranaki Bight iron sand mining proposal – Assessment of potential impacts on commercial fishing. Fathom Consulting report to Trans-Tasman Resources Ltd. 5 July 2013 pp 38. Updated November 2015.	Refer to **Supplementary Technical Report 25** - Fathom – Assessment of Potential Impacts on Commercial Fishing – November 2015

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95	MacDiarmid, A., Ballara, S. South Taranaki Bight Commercial Fisheries – 1 October 2006 – 30 September 2015, Prepared for Trans-Tasman Resources Ltd, May 2016. pp26	Refer to **Supplementary Technical Report 18** - NIWA South Taranaki Bight Commercial Fisheries 1 October 2006 – 30 September 2015 – May 2016
96	MacDiarmid, A., MacGibbon, D., Anderson, O. (2024). South Taranaki Bight Fishing: 1 October 2007 - 30 September 2023. NIWA Client Report No: 2024053WN, 37 p.	Refer to **Footnote Document FN96** - South Taranaki Bight Fishing
97	STOS Maui Decision, Paragraph 119 – 4 June 2015.	https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000010/Boards-decision/f14acd6e17/EEZ000010-STOS-Maui-Decision-4-June-2015.pdf
98	TTR - Sand Mining – Patea Mātauranga Māori and Customary Fisheries Analysis, Te Tai Hauāuru Fish Forum, Tanenuiarangi Manawatu Inc., 2016.	Appendix 5.10 TTR – Sand Mining – Patea Matauranga Maori and Customary Fisheries Analysis Te Tai Hauauru Fish Forum
99	[TTR SC decision at [154].	https://www.courtsofnz.govt.nz/assets/cases/2021/2021-NZSC-127.pdf
100	Corydon Consultants Limited. Social Impact Assessment of Trans-Tasman Resources Ltd Iron Sand Mining Project – January 2016.	Refer to **Supplementary Technical Report 30** - Corydon Consultants Ltd – Social Impact Assessment – January 2016
101	TTR - Sand Mining – Patea Mātauranga Māori and Customary Fisheries Analysis, Te Tai Hauāuru Fish Forum, Tanenuiarangi Manawatu Inc., 2016.	Refer to **Footnote Document FN101** - Laboratory Testing of Sediments
102	Hadfield, M.G. and Macdonald, H.S. (2015). Sediment Plume Modelling, 117 p. https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Applicants-proposal-documents/8e6049938f/NIWA-Sediment-Plume-Modelling-Report-Full-version.pdf	See hyperlink

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103	Macdonald, H.S and Hadfield, M.G. (2017). South Taranaki Bight Sediment Plume Modelling Worst Case Scenario, 51 p. https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Evidence/ac41266d7d/TTR-Appendix-to-HRW-Report.pdf	https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Evidence/ac41266d7d/TTRL-Appendix-to-HRW-Report.pdf
104	See memo from Dr Dearnaley on 22nd February 2017 for a summary of parameters varied: https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Evidence-Applicants-evidence/b877c5d2fb/.pdf	https://www.epa.govt.nz/assets/FileAPI/proposal/EEZ000011/Evidence-Applicants-evidence/b877c5d2fb/TTRL-Worst-case-parameterisation-for-source-term-for-use-in-sediment-plume-modelling.pdf
105	Haidvogel, D.B., Arango, H., Budgell, W.P., Cornuelle, B.D., Curchitser, E., Di Lorenzo, E., Fennel, K., Geyer, W.R., Hermann, A.J., Lanerolle, L., Levin, J., McWilliams, J.C., Miller, A.J., Moore, A.M., Powell, T.M., Shchepetkin, A.F., Sherwood, C.R., Signell, R.P., Warner, J.C., Wilkin, J. (2008). "Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the Regional Ocean Modelling System". Journal of Computational Physics 227(7): 3595–3624.	Refer to **Footnote Document FN105** - Ocean forecasting
106	Refer to Helen Macdonald statement of expert evidence, 19 May 2023 at [29]].	Refer to **Supplementary Technical Report 20e** - Evidence Dr Helen Macdonald - sediment plume modelling - May 2023
107	Aquatic Environmental Sciences - Trans-Tasman Resources Ltd Consent Application: Ecological Assessments – January 2016	Refer to **Supplementary Technical Report 20** - Aquatic Environmental Sciences - Trans-Tasman Resources Ltd Consent Application: Ecological Assessments – January 2016 Orpin
108	Pinkerton, M. (2017). Optical effects of proposed ironsand mining in the South Taranaki Bight region - worst case update. NIWA Client Report No: 2017089WNrev1, 45 p.	Refer to **Footnote Document FN108** - Optical effects of proposed iron-sand mining in the South Taranaki Bight
109	Defined as a horizontal visibility of more than 5 m.	Not applicable

Footnote Number	Footnote Reference in TTR FTA Application	Location
110	Kirk, J.T.O., 2011. “Light and photosynthesis in aquatic ecosystems” Cambridge University Press. Cambridge.	Resource not immediately available – please request if specifically required.
111	Para 229. [Add decision reference if necessary.]	https://www.epa.govt.nz/assets/Uploads/Documents/Marine-Activities-EEZ/Activities/7f11a030cb/TTRL-Marine-Consent-Decision-EEZ000011-FINAL-version.pdf
112	TTR Marine Consent Decision. 15 June 2014. Para 530.	https://www.epa.govt.nz/assets/Uploads/Documents/Marine-Activities-EEZ/Activities/7f11a030cb/TTRL-Marine-Consent-Decision-EEZ000011-FINAL-version.pdf
113	Mead. S., eCoast Marine. 2013. “Potential Effects of Trans-Tasman Resources Mining Operations on Surfing Breaks in the Southern Taranaki Bight” Memo 21 July 2013 updated November 2015.	Refer to **Supplementary Technical Report 39** - eCoast Potential Effects of Trans Tasman Resources Mining Operations on Surfing Breaks in Southern Taranaki Bight, November 2015
114	This is explicit in respect to waves, at Para 231, and implied in respect to surfing by the DMC’s apparent acceptance of the evidence summarised at paras 752-756.	Not applicable
115	TTR Marine Consent Decision. 15 June 2014. Para 506.	https://www.epa.govt.nz/assets/Uploads/Documents/Marine-Activities-EEZ/Activities/7f11a030cb/TTRL-Marine-Consent-Decision-EEZ000011-FINAL-version.pdf
116	Cahoon, L.B., Pinkerton, M., Hawes, I., 2015. “Effects on primary production of proposed iron-sand mining in the South Taranaki Bight region” October, 2015.	Refer to **Supplementary Technical Report 16** - NIWA Effects on Primary Production of proposed Iron Sand Mining in the South Taranaki Bight – October 2015
117	Fyfe, J. E. 2000. “Remote sensing of Macrocystis pyrifera beds near Pleasant River, Otago”. Master of Science thesis, University of Otago, Dunedin, New Zealand.	Resource not immediately available – please request if specifically required.

Footnote Number	Footnote Reference in TTR FTA Application	Location
118	Hawkins, A.J.S.; James, M.R.; Hickman, R.W.; Hatton, S.; Weatherhead, M. (1999). Modelling of suspension-feeding and growth in the green-lipped mussel Perna canaliculus exposed to natural and experimental variations of seston availability in the Marlborough Sounds, New Zealand. Marine Ecology Progress Series Vol. 191: 217-232.	Refer to **Footnote Document FN118** - Modelling of green-lipped mussel
119	Clarke, D.G. & Wilber, D.H. (2000). Assessment of potential impacts of dredging operations due to sediment resuspension. DOER Technical Notes Collection (ERDC TN-DOER-E9).	Refer to **Footnote Document FN119** - Assessment of potential impacts of dredging operations
120	Hewitt, J.E. & Norkko, J. (2007). Incorporating temporal variability of stressors into studies: An example using suspension-feeding bivalves and elevated suspended sediment concentrations. Journal of Experimental Marine Biology and Ecology 341: 131-141.	Refer to **Footnote Document FN120** - Suspension-feeding bivalves
121	Ellis, J.; Cummings, V.; Hewitt, J.; Thrush, S.; Norkko, A. (2002). Determining effects of suspended sediment on condition of a suspension feeding bivalve (Atrina zelandica): results of a survey, a laboratory experiment and a field transplant experiment. Journal of Experimental Marine Biology and Ecology 267: 147-174.	Refer to **Footnote Document FN121** - Effects of suspended sediment on bivalve
122	Nicholls, P.; Hewitt, J.; Halliday, J. (2003). Effects of suspended sediment concentrations on suspension and deposit feeding marine macrofauna. NIWA Client Report HAM2003-077, Project ARC03267. Pp 1-6.	Refer to **Footnote Document FN122** - Effects of suspended sediment concentrations on suspension and deposit feeding marine macrofauna
123	Cummings, V.J., Beaumont, J., Mobilia, V., Bell, J.J., Tracey, D., Clark, M.R., Barr, N. (2020). Responses of a common New Zealand coastal sponge to elevated suspended sediments: indications of resilience. Marine Environmental Research, 155: 104886.	Refer to **Footnote Document FN123** - Responses of a common New Zealand coastal sponge to elevated suspended sediments

Footnote Number	Footnote Reference in TTR FTA Application	Location
124	https://www.sustainableseaschallenge.co.nz/tools-and-resources/sponges-and-suspended-sediment-on-the-south-coast/	See hyperlink
125	James, M.; Probert, K.; Boyd, R.; Sagar, P. (2009). Biological resources of Otago Harbour and offshore: assessment of effects of proposed dredging and disposal by Port Otago Ltd. NIWA Client Report HAM2008-152, Project: POL08201.	Refer to **Footnote Document FN125** - Biological Resources
126	Hewitt, J.; Hatton, S.; Safi, K.; Craggs, R. (2001). Effects of suspended sediment levels on suspension feeding shellfish in the Whitford embayment. Prepared for the Auckland Regional Council. Report no. ARC01267. 32 p	Refer to **Footnote Document FN126** - Effects of suspended sediment levels on suspension feeding shellfish in the Whitford
127	Schwarz, A.; Taylor, R.; Hewitt, J.; Phillips, N.; Shima, J.; Cole, R.; Budd, R. (2006). Impacts of terrestrial runoff on the biodiversity of rocky reefs. New Zealand Aquatic Environment and Biodiversity Report No. 7. Ministry of Fisheries.	Refer to **Footnote Document FN127** - Impacts of terrestrial runoff on the biodiversity of rocky reefs
128	Arendt, K.E.; Dutz, J.; Jonasdottir, S.H., ; Jung-Madsen, S.; Mortensen, J.; Møller E.F.; Nielsen, T.G. 2011. “Effects of suspended sediments on copepods feeding in a glacial influenced sub-Arctic fjord”. Journal of Plankton Research 33: 1526–1537	Refer to **Footnote Document FN128** - Effects of suspended sediments on feedil
129	Wilber, D. H.; Clarke, D. G. (2001). “Biological effects of suspended sediments: A review of suspended sediment impacts on fish and shellfish with relation to dredging activities in estuaries”. North American Journal of Fisheries Management 21:855-875.	Refer to **Footnote Document FN129** - Biological Effects of Suspended Sediments

Footnote Number	Footnote Reference in TTR FTA Application	Location
130	Norkko, A.; Thrush, S.F.; Hewitt, J.E.; Norkko, J.T.; Cummings, V.J.; Ellis, J.I.; Funnell, G.A.; Schultz, D. (1999). Ecological effects of sediment deposition in Okura estuary. NIWA Client Report ARC90243 prepared for Auckland Regional Council, North Shore City Council, and Rodney District Council. July.	Refer to **Footnote Document FN130** - Ecological effects of sediment deposition in Okura estuary
131	Norkko, A.; Talman, S.; Ellis, J.; Nicholls, P.; Thrush, S. (2001). Macrofaunal sensitivity to fine sediments in the Whitford embayment. NIWA Client Report ARC01266/2.	Refer to **Footnote Document FN131** - Macrofaunal sensitivity to fine sediments
132	Doorn-Groen, S.M. (2007). Environmental monitoring and management of reclamations works close to sensitive habitats. Terra et Aqua 108. 3-18 p.	Refer to **Footnote Document FN132** - Environmental monitoring and management of reclamation works
133	Paavo, B.; Probert, K.P. 2005. Infaunal assemblages in coastal sediments at dredge dredged sediment disposal sites of Otago, New Zealand. Marine Sciences Department (University of Otago) report. 111 pp.	Resource not immediately available – please request if specifically required.
134	Anderson, T., Barrett, H., Morrisey, D. (2019). Effects of sediment deposition on the New Zealand cockle, Austrovenus stutchburyi. New Zealand Journal of Marine and Freshwater Research, 53: 363-376.	https://www.tandfonline.com/doi/full/10.1080/00288330.2019.1580751#d1e622
135	Schiel, D.R; Wood, S.A.; Dunmore, R.A.; Taylor, D.I. (2006). Sediment on rocky reefs: Effects on early post-settlement stages of habitat-forming seaweeds. Journal of Experimental Marine Biology and Ecology. 331:158-172.	Refer to **Footnote Document FN135** - Sedimentation on Rocky intertidal reefs
136	Gowing, L.; Priestley, S.; Kennedy, P. 1997. "Monitoring the Hauraki Gulf dredgings disposal site using REMOTS and other established sampling techniques". Presented at the Pacific Coasts and Ports '97. Christchurch, Centre for Advance Engineering, University of Canterbury.	Resource not immediately available – please request if specifically required.

Footnote Number	Footnote Reference in TTR FTA Application	Location
137	Bigham KT, Rowden AA, Bowden DA, Leduc D, Pallentin A, Chin C, Mountjoy JJ, Nodder SD and Orpin AR (2023) Deep-sea benthic megafauna hotspot shows indication of resilience to impact from massive turbidity flow. Front. Mar. Sci. 10:1180334. doi: 10.3389/fmars.2023.1180334	Refer to **Footnote Document FN137** - Deep Sea benthic megafauna
138	Bigham KT, Rowden AA, Bowden DA, Leduc D, Pallentin A, Chin C, Mountjoy JJ, Nodder SD and Orpin AR (2023) Deep-sea benthic megafauna hotspot shows indication of resilience to impact from massive turbidity flow. Front. Mar. Sci. 10:1180334. doi: 10.3389/fmars.2023.1180334	https://openaccess.wgtn.ac.nz/articles/thesis/Resilience_of_deepsea_benthic_communities_to_turbidity_flows_following_the_2016_Kaikoura_Earthquake/24646104
139	ANZECC & ARMCANZ, 2000. "Australian and New Zealand Guidelines for Fresh and Marine Water Quality". National Water Quality Management Strategy Paper No 4. Australian and New Zealand Environment and Conservation Council, Agricultural and Resource Management Council for Australia and New Zealand, Canberra.	https://www.waterquality.gov.au/anz-guidelines/resources/previous-guidelines/anzecc-armcanz-2000
140	Statement of Evidence of Matt Brown on Behalf of Trans-Tasman Resources, 15 February 2013, adaption of paragraph 59.	Refer to 'Evidence' dropdown folder - EEZ000004_04_Matt Brown - https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/
141	Statement of Evidence in Chief of Dr Kay Vopel on behalf of Trans-Tasman Resources, 15 February 2013, Paragraphs 66-67.	Refer to 'Evidence' dropdown folder - EEZ000004_42_Kay Vopel - https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/
142	Chrystall L, Rumsby A (2009) Mercury inventory for New Zealand. Technical Report prepared for the Ministry for the Environment. Pattle Delamore Partners Limited, August 2009.	Refer to **Footnote Document FN142** - Mercury-inventory-new-zealand-2008
143	Kim JP (1995) Methylmercury in rainbow trout (Oncorhynchus mykiss) from Lakes Okareka, Okaro, Rotomahana, Rotorua and Tarawera, North Island, New Zealand. Science of the Total Environment 164:209–219.	Refer to **Footnote Document FN143** - Methylmercury in rainbow trout

Footnote Number	Footnote Reference in TTR FTA Application	Location
144	Trefry JH, Trocine RP, McElvaine ML, Rember RD, Hawkins LT (2007) Total mercury and methylmercury in sediments near offshore drilling sites in the Gulf of Mexica. Environ. Geol. 53:375–385.	Refer to **Footnote Document FN144** - Total mercury and methylmercury in sediments near offshore drilling sites in
145	DeLaune RD, Devai I, Hou A, Jugsujinda A (2008) Total and methyl Hg in sediment adjacent to offshore platforms of the Gulf of Mexica. Soil & Sediment Contaminations 17:98–106	Refer to **Footnote Document FN145** - Total and Methyl Hg in Sediment
146	Paras 587-599 and 614-616.	Refer to 'The Decision' at - https://www.epa.govt.nz/public-consultations/completed/trans-tasman-resources-limited-2016/the-decision/
147	Thompson, D. 2013. “Effect of ships lights on fish, squid, and seabirds”. NIWA Client Report WLG2013-16. Updated November 2015.	Refer to **Supplementary Technical Report 7** - NIWA Effects of Ships Lights on Fish, Squid and Seabirds – November 2015
148	Lowe, M.L. (2013). Factors affecting the habitat usage of estuarine juvenile fish in northern New Zealand. Doctor of Philosophy in Marine Science. University of Auckland, Auckland: 238.	https://researchspace.auckland.ac.nz/items/977b2cdb-843b-4750-bc31-d716e4e1aabf
149	Page, M. (2014). Effects of total suspended solids on marine fish: pelagic, demersal and bottom fish species avoidance of TSS on the Chatham Rise. NIWA Client Report No: WLG2014-7, 25 p.	Refer to **Footnote Document FN149** - EEZ000006-Appendix28-Effects of total suspended solids on marine fish
150	Page, M. (2014). Effects of total suspended solids on marine fish: pelagic, demersal and bottom fish species avoidance of TSS on the Chatham Rise. NIWA Client Report No: WLG2014-7, 25 p.	Refer to **Supplementary Technical Report 8c** -Evidence Dr David Thompson - effects on seabirds - May 2023
151	Thompson D (2023) Expert evidence of Dr David Thompson on behalf of Trans Tasman Resources Limited. 19 May 2023	Refer to 'Board Decision' dropown at - https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/

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152	MacDiarmid, A. (2017). Expert supplementary evidence of Alison MacDiarmid on behalf of Trans Tasman Resources Limited, dated 1 May 2017.	Refer to **Footnote Document FN152** - MacDiarmid-Supplementary-Evidence-1-May-2017-Final
153	MacDiarmid, A. (2023). Expert evidence of Dr Alison MacDiarmid on behalf of Trans Tasman Resources Limited, dated 19 May 2023.	Refer to **Supplementary Technical Report 20c** - Evidence Dr Alison MacDiarmid - overview of marine environment and potential impacts from sedimentation - May 2023
154	Todd VLG et al. (2015) A review of impacts of marine dredging activities on marine mammals. – ICES Journal of Marine Science, 72(2): 328-340. doi: 10.1093/icesjms/fsu187.	https://academic.oup.com/icesjms/article/72/2/328/676320
155	MacDiarmid A (2024) Expert rebuttal evidence of Dr Alison MacDiarmid on behalf of Trans Tasman Resources Limited. 23 January 2024.	Refer to **Supplementary Technical Report 20b** - Rebuttal evidence Dr Alison Mac Diarmid - sedimentation - January 2024.
156	Childerhouse S (2024) Expert rebuttal evidence of Dr Simon John Childerhouse on behalf of Trans Tasman Resources Limited. 23 January 2024.	Refer to **Supplementary Technical Report 4b** - Rebuttal evidence Dr Simon Childerhouse - marine mammals - January 2024
157	For example: Hegley (2015), Childerhouse (2016) Childerhouse (2023, 2024), Humpheson (2017), Humpheson (2024), EPA (2017, 2024)	Not Applicable
158	Humpheson D (2017) Trans-Tasman Resources - Acoustic Modelling. Unpublished report to TTR.	Updated as per Report 4b - Rebuttal evidence Dr Simon Childerhouse - marine mammals - January 2024
159	Humpheson D (2024) TTR - Weighted underwater sound exposure levels. Unpublished report to TTR. 23 January 2024. Appears as Appendix 1 in Childerhouse (2024b).	Refer to **Supplementary Technical Report 4b** - Rebuttal evidence Dr Simon Childerhouse - marine mammals - January 2024

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160	Southall B L, Finneran J J, Reichmuth C, Nachtigall P E, Ketten D R, Bowles A E, Ellison W T, Nowacek D P, Tyack P L (2019). Marine Mammal Noise Exposure Criteria: Updated Scientific Recommendations for Residual Hearing Effects. Aquatic Mammals 2019, 45(2), 125-232, DOI 10.1578/AM.45.2.2019.125.	Refer to **Footnote Document FN160** - Marine Mammal Noise Exposure Criteria
161	Southall BL et al. (2007) Marine Mammal Noise Exposure Criteria: Initial Scientific Recommendations. Aquatic Mammals. 33: 411-522.	Refer to **Footnote Document FN161** - Marine Mammal Noise Exposure Criteria 2007
162	EPA (2024) A joint statement of experts in the field of effects on marine mammals. 19 February 2024.	https://www.epa.govt.nz/assets/Uploads/Documents/Marine-Activities-EEZ/Activities/EEZ000011-TTRL-Reconsideration/Expert-caucusing/Marine-mammals-2024-JWS.pdf
163	Statement of Evidence in Chief of Dr Francesca Kelly on behalf of Trans-Tasman Resources Ltd. 15 February 2014.	Refer to 'Evidence' dropdown folder - EEZ000004_35_Francesca Kelly - https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/
164	http://foodsafety.govt.nz/policy-law/food-monitoring-programmes/total-diet-study/	https://www.mpi.govt.nz/food-business/food-monitoring-surveillance/new-zealand-total-diet-study/
165	Boffa Miskell – Visual Effects Report and Graphic Supplement – November 2015	Refer to **Supplementary Technical Report 31a**-c - Boffa Miskell – Visual Effects Report and Graphic Supplement – November 2015
166	NB. At the time of Boffa's assessment the IMV was referred to as the FPSO.	Not Applicable
167	Tonkin and Taylor, 2013a "Offshore Iron sands project – Air Dispersion Modelling Study – Gas Turbines" T&T Ref: 29303, 31 pp. August 2013. Updated November 2015.	Refer to 'EEZ000004_Offshore_Ironsands_Project_Air_Dispersion_Modelling_Study_August_2013.pdf' at https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/

Footnote Number	Footnote Reference in TTR FTA Application	Location
168	Tonkin and Taylor, 2013b "Offshore Iron sands project – Air Dispersion Modelling Study – Reciprocating Engines". T&T Ref: 29303, 32 pp. October 2013. Updated November 2015.	Refer to 'EEZ000004_Offshore_Ironsands_Project_Air_Dispersion_Modelling_Study_October_2013.pdf' at https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000004/
169	[Add cross-reference to relevant part of Statutory Framework section]	Reference should be to Section 8.3.1 of the FTAA Application
170	Te Taihauāuru Iwi Forum Fisheries Plan 2012-2017, pp. 6	Refer to **Supplementary Technical Report 34** - Te Taihauāuru Iwi Forum Fisheries Plan 2012-2017
171	Cultural values Assessment and Analysis by Tahu Potiki. May 2016	Refer to **Supplementary Technical Report 40** - Cultural values Assessment and Analysis by Tahu Potiki. May 2016 Primary Industries
172	Which TTR acknowledges is prohibited for marine discharge consents under s 64, EEZ Act.	Not Applicable
173	A recess in the hull that provides an intake reservoir from which piping systems draw raw sea water.	Not Applicable
174	Ministry for Primary Industries, 2014. "Biofouling on Vessels Arriving to New Zealand – CRMS BIOFOUL" 15 May 2014.	Standards updated by CRMS Vessels 13 October 2023 - www.mpi.govt.nz/dmsdocument/19757-Vessels-Craft-Risk-Management-Standard/
175	CRMS, Part 2.1(1). Defined under 2.1(2) as "…no biofouling of live organisms is present other than that within the thresholds below".	Standards updated by CRMS Vessels 13 October 2023 - https://www.mpi.govt.nz/dmsdocument/19757-Vessels-Craft-Risk-Management-Standard/
176	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015

Footnote Number	Footnote Reference in TTR FTA Application	Location
177	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
178	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
179	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
180	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
181	Barlow, R. N. 2015. "Trans-Tasman Resources Ltd, South Taranaki Bight, Offshore Iron Sand Extraction and Processing project – Report on the Maritime and Navigational Impacts of the project" November 2015.	Refer to **Supplementary Technical Report 26** - R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
182	Maritime New Zealand "Marine Protection Rules Part 103: Notifications – oil & noxious liquid substance" Retrieved 1/12/15. http://www.maritimenz.govt.nz/Rules/List-of-all-rules/Part103-marine-protection-rule.asp	Refer to **Supplementary Technical Report FN182** - Marine Protection Rules
183	http://www.linz.govt.nz/sea/maritime-safety/notices-mariners	See hyperlink
184	http://www.doc.govt.nz/Documents/conservation/native-animals/marine-mammals/seismic-survey-code-of-conduct.pdf	See hyperlink

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185	MetOcean Solutions Limited. "Oil Spill Trajectory Modelling. TTR mining barge, New Zealand. Prepared for Trans-Tasman Resources." January 2014.	Refer to **Supplementary Technical Report 33** - MetOcean Solutions Ltd – Oil Spill Trajectory Modelling – January 2014
186	OCEL, 2015. "Implications of Loose Tailing Seabed Material on Future Jack-Up Deployment in the South Taranaki Bight".	Refer to **Supplementary Technical Report 32** - OCEL Consultants – Implications of Loose Tailings Seabed Material on Future Jack-Up Deployment
187	James, M.R., MacDiarmid, A., 2016. "Trans-Tasman Resource Ltd consent application: Ecological Monitoring" February 2016. 13 pp.	Refer to **Footnote Document FN187** - TTR Ecological Monitoring
188	These values are addressed in further detail in secton [ ] below.	Reference should be to Section 6.4.6 of the Application
189	Schedule 2 of the Proposed Consent Conditions	**Attachment 1** to the TTR FTAA Application
190	Richardson, K (2007). "A perspective of marine mining within De Beers" SAIMM Conference, Hydrotransport 17, 7–11 May 2007.	Refer to **Footnote Document FN190** - Marine Mining with De Beers
191	NB. This excludes aspects of the statutory provisions that do not apply:, Schedule 10, Clause 6(c) does not apply as there are no policy statements yet issued under the EEZ Act, and EEZ Act, s 62(1A) does not apply as it relates only to dumping or the abandonment of submarine pipelines.	Not Applicable
192	FTA, s 81(2)(a).	https://www.legislation.govt.nz/act/public/2024/0056/latest/LMS978159.html
193	FTA, s 81(2)(b) and Schedule 10, cl 6.	https://www.legislation.govt.nz/act/public/2024/0056/latest/LMS978159.html
194	Bleakley v Environmental Risk Management Authority [2001] 3 NZLR 213 at [72].	Refer to **Footnote Document FN194** - Bleakley v Environmental Risk Management Authority HC Wellington AP177 00 2 May 2001
195	See discussion of section 85 in Section 8.2.11of this IA.	Not Applicable

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196	Namely the decision-making criteria in ss 59-60 of the EEZ Act.	Not Applicable
197	The only information principle that is not applicable being s 61(1)(a), i.e. the obligation to make full use of powers to request information, obtain advice and commissioner reviews and reports.	Not Applicable
198	At [245], [250] and [261] per Glazebrook J, [292] per Williams J and [305] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
199	At [252] per Glazebrook J, [292] per Williams J and [308] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
200	At [255] per Glazebrook J, [293] per Williams J and [310] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
201	At [261] per Glazebrook J, [292] per Williams J and [319] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
202	See Section 8.3.17 of this IA.	Not Applicable
203	Helu v Immigration and Protection Tribunal [2016] NZLR 298.	Refer to **Footnote Document FN203** - Helu v Immigration and Protection Tribunal 2015 NZSC 28
204	Trans-Tasman Resources Limited v Taranaki-Whanganui Conservation Board [2020] NZCA 86 at [39], upheld on appeal.	https://www.justice.govt.nz/jdo_documents/workspace___SpacesStore_9b1f872e_99ed_4316_a72e_265d9d81ef7c.pdf
205	At [154] per William Young and Ellen France JJ, [237] per Glazebrook J, [296] per Williams J and [332] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127

Footnote Number	Footnote Reference in TTR FTA Application	Location
206	At [172] per William Young and Ellen France JJ, [237] per Glazebrook J, [296] per Williams J and [332] per Winkelmann CJ	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
207	At [160] per William Young and Ellen France JJ, [237] per Glazebrook J, [296] per Williams J and [332] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
208	At [161] per William Young and Ellen France JJ, [237] per Glazebrook J, [296] per Williams J and [332] per Winkelmann CJ	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
209	At [172] per William Young and Ellen France JJ, [237] per Glazebrook J, [296] per Williams J and [332] per Winkelmann CJ	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
210	FTA, s 85(3). See Section 8.2.11 of this IA.	https://www.legislation.govt.nz/act/public/2024/0056/latest/LMS989547.html
211	At [179] per William Young and Ellen France JJ, [280] per Glazebrook J, [298] per Williams J and [331] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
212	At [181] per William Young and Ellen France JJ, [280] per Glazebrook J, [298] per Williams J and [331] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
213	At [185] per William Young and Ellen France JJ, [280] per Glazebrook J, [298] per Williams J and [331] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
214	At [280] per Glazebrook J, [298] per Williams J, and [331] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127

Footnote Number	Footnote Reference in TTR FTA Application	Location
215	NB. The majority judgments applied policy 13(1)(a) as a bottom line not merely because it used the language of such "bottom lines" (it was, after all, only a matter required to be "taken into account" under s 59(2)) but because of its strong commonality with the bottom line that the Court considered was created by s 10(1)(b). It was this "synergy"(at [280] per Glazebrook J) or "lockstep" (at [298] per Williams J) between the two regimes that led the Court to the view that the application's inconsistency with one would inevitably mean it was inconsistent also with the other.	Not Applicable
216	See Section 8.2.6 of this IA addressing the exclusivity of the grounds for declining approvals under section 81 and 85 of the FTA.	Not Applicable
217	At [118]-[131] per William Young and Ellen France JJ, [274] per Glazebrook J, [294] per Williams J and [328] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
218	See section below in relation to ss 81(2)(f) and 85.	Not Applicable
219	At [199]-[213] per William Young and Ellen France JJ, [281]-[284] per Glazebrook J, [299] per Willams J and [332] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
220	See Section 8.2.4 of this IA.	Not Applicable
221	As interpreted by the Supreme Court, see Sections 8.2.11 and 8.3.17 of this IA.	Not Applicable
222	See Section 8.2.4 of this IA.	Not Applicable
223	The other specific vector for potential biosecurity risks associated with the Project is ballast water, which is now managed under the Maritime Transport Act 1994, and addressed below in relation to that Act.	Not Applicable

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224	Craft Risk Management Standard: Biofouling on Vessels Arriving to New Zealand (Ministry for Primary Industries, 15 November 2018).	Standards updated by CRMS Vessels 13 October 2023 - https://www.mpi.govt.nz/dmsdocument/19757-Vessels-Craft-Risk-Management-Standard/
225	Refer Section 1.3 of this IA.	Not Applicable
226	Minerals Programme for Minerals (Excluding Petroleum) 2013, cl 1.3(3).	Refer to **Footnote Document FN226** - Minerals programme 2013
227	Above n 191, clause 10.1(3)(c).	Not Applicable
228	Crown Minerals Act, section 2(1).	https://www.legislation.govt.nz/act/public/1991/0070/latest/DLM242543.html
229	Fisheries Act 1996, section 8.	https://www.legislation.govt.nz/act/public/1996/0088/latest/DLM395389.html
230	Health and Safety at Work Act 2015, section 10.	https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976675.html
231	Section 11.	https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976676.html
232	Section 36.	https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976895.html
233	Section 3.	https://www.legislation.govt.nz/act/public/2015/0070/latest/DLM5976667.html
234	Which came into force after the last DMC Decision, largely on 1 December 2017.	Not Applicable
235	Hazardous Substances and New Organisms Act 1996, section 4.	https://www.legislation.govt.nz/act/public/1996/0030/latest/DLM382991.html
236	Heritage New Zealand Pouhere Taonga Act 2014, s 3.	https://www.legislation.govt.nz/act/public/2014/0026/latest/DLM4005420.html

Footnote Number	Footnote Reference in TTR FTA Application	Location
237	Report 23 Trans-Tasman Resources South Taranaki Bight Offshore Iron Sand Project: Archaeological Assessment, December 2015.	Refer to **Supplementary Technical Report 23** - Clough and Associates Ltd – Trans-Tasman Resources South Taranaki Bight Offshore Iron Sand Project: Archaeological Assessment – December 2015
238	Conditions 19-23.	**Attachment 1** to the TTR FTAA Application
239	2016 Decision on TTR at [154].	Refer to 'The Decision' at - https://www.epa.govt.nz/public-consultations/completed/trans-tasman-resources-limited-2016/the-decision/
240	2016 Decision on TTR at [154].	Refer to 'The Decision' at - https://www.epa.govt.nz/public-consultations/completed/trans-tasman-resources-limited-2016/the-decision/
241	2016 Decision on TTR at [172] and [296]-[297].	Refer to 'The Decision' at - https://www.epa.govt.nz/public-consultations/completed/trans-tasman-resources-limited-2016/the-decision/
242	Marine Mammals Protection Act 1978, section 1(3).	https://www.legislation.govt.nz/act/public/1978/0080/latest/DLM25115.html
243	Section 3C.	https://www.legislation.govt.nz/act/public/1978/0080/latest/DLM25199.html
244	Section 3D.	https://www.legislation.govt.nz/act/public/1978/0080/latest/DLM25304.html
245	Established under the Marine Mammals Protection (West Coast North Island Sanctuary) Notice 2008.	Not Applicable
246	Under the Marine Mammals Protection (West Coast North Island Sanctuary) Amendment Notice 2020.	Not Applicable
247	For a map of the enlarged sanctuary, refer to the Notice, above, at Schedule 2.	Not Applicable

Footnote Number	Footnote Reference in TTR FTA Application	Location
248	Above n 55, clause 6.	Not Applicable
249	For example, the Clifford & Cloudy Bay Marine Mammal Sanctuary or Banks Peninsula Marine Mammal Sanctuary, the latter of which extends to 20 nautical miles offshore.	Not Applicable
250	Hector's and Māui Dolphin Threat Management Plan 2020.	Refer to **Footnote Document FN78** - Hectors and Maui Dolphin Threat Management Plan
251	Objective 4.	Refer to **Footnote Document FN250** - Hectors and Maui Dolphin Threat Management Plan
152	Marine Reserves Act 1971, section 3.	https://www.legislation.govt.nz/act/public/1971/0015/latest/DLM398102.html
253	Wildlife Act 1953, section 3.	https://www.legislation.govt.nz/act/public/1953/0031/latest/DLM277090.html
254	Maritime New Zealand, 2015. "Maritime Rules – Part 22: Collision Prevention" Retrieved November 2015. http://www.maritimenz.govt.nz/Rules/Rule-documents/Part22-maritime-rule.pdf	https://www.maritimenz.govt.nz/rules/all-rules/maritime-rules-part-22/#:~:text=Part%2022%20provides%20the%20'Rules,the%20communication%20of%20safety%20information.
255	Ngāti Ruanui Deed of Settlement Part 5 Summary of Redress (i)(ii)	Refer to **Footnote Document FN255** - Ngati Ruanui Deed of Settlement 12 May 2001
256	Ngā Rauru Kiitahi Deed of Settlement 6.3.3 Cultural Redress, Statutory Acknowledgement in relation to certain areas (d)(ii).	Refer to **Footnote Document FN256** - Ngaa Rauru Kiitahi Deed of Settlement 27 Nov 2003
257	Ngāruahine Deed of Settlement clause 5.21 Kaitiaki area.	Refer to **Footnote Document FN257** - Ngaruahine Deed of Settlement-1 Aug 2014

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258	Ngāruahine Deed of Settlement clause 5.23, reference to settlement legislation, see Ngāruahine Claims Settlement Act 2016 subpart 5 – Kaitiaki Plan	Refer to **Footnote Document FN257** - Ngaruahine Deed of Settlement-1 Aug 2014
259	Ngāruahine Kaitiaki Plan 2021 page 23, available here: https://issuu.com/ngaruahine/docs/te_uru_taiao_o_ngaruahine?fr=xKAE9_zU1NQ	See hyperlink
260	Ibid, page 44.	https://issuu.com/ngaruahine/docs/te_uru_taiao_o_ngaruahine?fr=xKAE9_zU1NQ
261	Ngāruahine Deed of Settlement clause 5.25.	Refer to **Footnote Document FN257** - Ngaruahine Deed of Settlement-1 Aug 2014
262	At [129]-[130] per William Young and Ellen France JJ, [274] per Glazebrook J, [294] per Williams J and [328] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
263	See attached conditions in Appendix 1.	**Attachment** 1 to the TTR FTAA Application
254	At [275]-[278] per Glazebrook J, [295] per Williams J and [329] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
265	See also 2024 rebuttal evidence from David Thomson, Simon Childerhouse, Alison McDiarmid (supplementary technical package)	Refer to **Supplementary Technical Report 8a, 4b and 20b** of Supplementary technical package
266	At [214]-[221] per William Young and Ellen France JJ, [285]-[286] per Glazebrook J, [299] per Williams J and [332] per Winkelmann CJ.	Refer to **Footnote Document FN198** - TTR Supreme Court Decision 2021-NZSC-127
267	Condition 8 of Attachment 1.	**Attachment 1** to the TTR FTAA Application

Footnote Number	Footnote Reference in TTR FTA Application	Location
268	Condition 57 of Attachment 1.	**Attachment 1** to the TTR FTAA Application