

## TTR Reports submitted and referenced in support of the application

(<https://www.epa.govt.nz/database-search/eez-applications/view/EEZ000011>)

1. HRW\_Lab\_Testing\_of\_Sediments\_Report\_Full\_version.pdf(PDF, 3.7 MB)
2. HRW\_Source\_Terms\_and\_Sediment\_Properties\_Report\_Full\_version.pdf(PDF, 6.2 MB)
3. NIWA\_Memo\_to\_HRW\_Full\_version.pdf(PDF, 642 KB)
4. NIWA\_Optical\_Effects\_Report\_Full\_version.pdf(PDF, 7.7 MB)
5. NIWA\_Sediment\_Plume\_Modelling\_Report\_Full\_version.pdf(PDF, 11 MB)
6. Optical modelling TTR\_Apr2017\_v2 (002).pdf(PDF, 5.8 MB)
7. TTR\_Maps\_new (002).pdf(PDF, 9.1 MB)
8. Appendices\_to\_Impact\_Assessment\_23\_August\_2016.pdf(PDF, 23 MB)
9. Appendix\_to\_HRW\_Report\_updated.pdf(PDF, 3.9 MB)
10. Impact\_Assessment\_23\_August\_2016.pdf(PDF, 9.3 MB)
11. Marine Consent\_Application\_Form\_23\_August\_2016.pdf(PDF, 304 KB)
12. Marine\_Discharge\_Consent\_Application\_Form\_23\_August\_2016.pdf(PDF, 242 KB)
13. Report\_1\_NIWA\_STB\_Baseline\_Environmental\_Report\_November\_2015.pdf(PDF, 11 MB)
  - a. Report\_1\_NIWA\_STB\_Baseline\_Environmental\_Appendix\_1.pdf(PDF, 712 KB)
  - b. Report\_1\_NIWA\_STB\_Baseline\_Environmental\_Appendix\_2.pdf(PDF, 5.4 MB)
  - c. Report\_1\_NIWA\_STB\_Baseline\_Environmental\_Appendix\_3.pdf(PDF, 5.6 MB)
  - d. Report\_1\_NIWA\_STB\_Baseline\_Environmental\_Appendix\_4.pdf(PDF, 5.4 MB)
14. Report\_10\_NIWA\_Fish\_and\_Fisheries\_November\_2016.pdf(PDF, 4.4 MB)
  - a. Report\_10\_NIWA\_Fish\_and\_Fisheries\_Appendix\_A.pdf(PDF, 5.4 MB)
  - b. Report\_10\_NIWA\_Fish\_and\_Fisheries\_Appendix\_B.pdf(PDF, 5.6 MB)
  - c. Report\_10\_NIWA\_Fish\_and\_Fisheries\_Appendix\_C.pdf(PDF, 5.4 MB)
15. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_November\_2015.pdf(PDF, 2.9 MB)
  - a. Report\_11\_NIWA\_Geological\_Desktop\_Summar\_Appendix\_A.pdf(PDF, 88 KB)
  - b. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_Appendix\_B.pdf(PDF, 3.5 MB)
  - c. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_Appendix\_C.pdf(PDF, 3.2 MB)
  - d. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_Appendix\_D.pdf(PDF, 9.9 MB)
  - e. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_Appendix\_E.pdf(PDF, 11 MB)
  - f. Report\_11\_NIWA\_Geological\_Desktop\_Summary\_Appendix\_F.pdf(PDF, 4.5 MB)
16. Report\_12\_NIWA\_Oceanographic\_Measurements\_November\_2015.pdf(PDF, 3.4 MB)

17. Report\_13\_NIWA\_Nearshore\_Optical\_Water\_Quality\_November\_2015.pdf(PDF, 4.1 MB)
18. Report\_14\_NIWA\_Shoreline\_Monitoring\_Data\_November\_2015.pdf(PDF, 10 MB)
19. Report\_15\_NIWA\_Nearshore\_Wave\_Modelling\_November\_2015.pdf(PDF, 8.8 MB)
20. Report\_16\_NIWA\_Effects\_on\_Primary\_Production\_October\_2015.pdf(PDF, 1.2 MB)
21. Report\_17\_NIWA\_Assessment\_of\_the\_scale\_of\_marine\_effects\_September\_2016.pdf(PDF, 7 MB)
22. Report\_18\_NIWA\_South\_Taranaki\_Bight\_Commercial\_Fisheries\_May\_2016.pdf(PDF, 2.6 MB)
23. Report\_19\_NIWA\_Zooplankton\_and\_Processes\_November\_2015.pdf(PDF, 1.4 MB)
24. Report\_2\_NIWA\_Benthic\_Habitats\_Report\_November\_2015.pdf(PDF, 3.4 MB)
25. Report\_20\_AES\_Ecological\_Assessment\_January\_2016.pdf(PDF, 2.2 MB)
26. Report\_21\_TandT\_Air\_Dispersion\_Modelling\_Gas\_Turbines\_Novemer\_2015.pdf(PDF, 3.2 MB)
27. Report\_22\_TandT\_Air\_Dispersion\_Modelling\_Reciprocating\_Engines\_November\_2015.pdf(PDF, 3.6 MB)
28. Report\_23\_Clough\_and\_Assoc\_Archaeological\_Assessment\_December\_2015.pdf(PDF, 918 KB)
29. Report\_24\_Cawthron\_Cetacean\_Monitoring\_November\_2015.pdf(PDF, 1.2 MB)
30. Report\_25\_Fathom\_Potential\_Impacts\_on\_Commercial\_Fishing\_November\_2015.pdf(PDF, 3.4 MB)
31. Report\_26\_Barlow\_Maritime\_and\_Navigational\_Impacts\_Report\_November\_2015.pdf(PDF, 4.7 MB)
32. Report\_27\_Marico\_Marine\_Traffic\_Study\_December\_2015.pdf(PDF, 3.1 MB)
33. Report\_28\_Hegley\_Assessment\_of\_Noise\_Effects\_November\_2015.pdf(PDF, 1.8 MB)
34. Report\_29\_Greenaway\_Recreational\_and\_Tourism\_Effects\_November\_2015.pdf(PDF, 2.4 MB)
35. Report\_3\_NIWA\_Benthic\_Ecology\_November\_2015.pdf(PDF, 12 MB)
36. Report\_3\_NIWA\_Patea\_Shoals\_Benthic\_Ecology\_November\_2015.pdf(PDF, 12 MB)
37. Report\_30\_Croydon\_Social\_Impacts\_Assessment\_January\_2016.pdf(PDF, 1.3 MB)
38. Report\_31\_Boffa\_Seascape\_Nat\_Character\_Assessment\_December\_2015.pdf(PDF, 13 MB)
39. Report\_31\_Boffa\_Seascape\_Nat\_Character\_assessment\_supplement\_December\_2015.pdf(PDF, 13 MB)
40. Report\_32\_Ocel\_Future\_Jack\_Up\_Deployment\_Report\_.pdf(PDF, 637 KB)
41. Report\_33\_MetOcean\_Oil\_Spill\_Modelling\_January\_2014.pdf(PDF, 2.7 MB)

42. Report\_34\_Te\_Taihouauro\_Iwi\_Forum\_Fisheries\_Plan.pdf(PDF, 852 KB)
43. Report\_35\_De\_Beers\_Mining\_Perspective\_June\_2007.pdf(PDF, 2.6 MB)
44. Report\_36\_Findlay\_Impacts\_of\_Diamond\_Mining\_Noise\_June\_1996.pdf(PDF, 3.1 MB)
45. Report\_37\_IMT\_Environmental\_Impact\_Underwater\_Radiated\_Noise\_1994.pdf(PDF, 5 MB)
46. Report\_38\_IMT\_Environmental\_Impact\_Underwater\_Radiated\_Noise\_1995.pdf(PDF, 5.6 MB)
47. Report\_39\_eCoast\_Surfing\_Break\_Impacts\_November\_2015.pdf(PDF, 13 MB)
48. Report\_4\_NIWA\_Cetacean\_Habitat\_Models\_2\_September\_2016.pdf(PDF, 5.1 MB)
49. Report\_40\_Martin\_Jenkins\_Economic\_Impact\_Analysis\_October\_2015.pdf(PDF, 1.5 MB)
50. Report\_41\_Tahu\_Potiki\_Cultural\_Values\_Assessment\_August\_2016.pdf(PDF, 339 KB)
51. Report\_42\_AUT\_Trace\_Metal\_Assessment\_September\_2013.pdf(PDF, 3.2 MB)
52. Report\_5\_NIWA\_Coastal\_stability\_PHASE\_1\_November\_2015.pdf(PDF, 5.4 MB)
53. Report\_6\_NIWA\_Coastal\_stability\_PHASE\_2\_November\_2015.pdf(PDF, 12 MB)
54. Report\_7\_NIWA\_Effects\_of\_Shops\_Light\_November\_2015.pdf(PDF, 358 KB)
55. Report\_8\_NIWA\_Seabirds\_of\_the\_STB\_November\_2015.pdf(PDF, 465 KB)
56. Report\_9\_NIWA\_Zooplankton\_Communities\_and\_Water\_Quality\_May\_2015.pdf(PDF, 3.6 MB)
57. Technical Reports Referenced in IA - Contents Pages.pdf
  - 1) South Taranaki Bight Factual Baseline Environmental Report – November 2015 including four Appendices
  - 2) Benthic Habitats, Macrobenthos and Surficial Sediments of the Nearshore South Taranaki Bight – November 2015
  - 3) Benthic Flora and Fauna of the Patea Shoals Region, South Taranaki Bight – November 2015
  - 4) Habitat Models of Southern Right Whales, Hector’s Dolphin, and Killer Whales in New Zealand – November 2015
  - 5) Coastal Stability in the South Taranaki Bight – Phase 1 – Historical and present day shoreline change – November 2015
  - 6) Coastal Stability in the South Taranaki Bight – Phase 2 – Potential effects of offshore sand extraction on physical drivers and coastal stability – November 2015
  - 7) Effects of Ships Lights on Fish, Squid and Seabirds – November 2015
  - 8) Seabirds of the South Taranaki Bight – November 2015
  - 9) Zooplankton Communities and Surface Water Quality in the South Taranaki Bight February 2015 – May 2015
  - 10) South Taranaki Bight Fish and Fisheries – November 2015
  - 11) Geological Desktop Summary – Active Permit areas 50753, (55581), 54068 and 54272, South Taranaki Bight – November 2015
  - 12) South Taranaki Bight Iron Sand Mining: Oceanographic Measurements Data Report – November 2015

- 13) Nearshore Optical Water Quality in the South Taranaki Bight – November 2015
- 14) South Taranaki Bight Iron Sand Mining: Shoreline Monitoring Data Report – November 2015
- 15) South Taranaki Bight Iron Sand Mining Nearshore Wave Modelling – Phase 4 Studies – November 2015
- 16) Effects on Primary Production of proposed Iron Sand Mining in the South Taranaki Bight – October 2015
- 17) Assessment of the Scale of Marine Ecological Effects of Seabed Mining in the South Taranaki Bight – September 2015
- 18) South Taranaki Bight Commercial Fisheries 1 October 2006 – 30 September 2015 – May 2016
- 19) Zooplankton and the Processes Supporting them in Greater Western Cook Strait – November 2015
- 20) Aquatic Environmental Sciences - Trans-Tasman Resources Ltd Consent Application: Ecological Assessments – January 2016
- 21) Tonkin & Taylor Ltd – Air Dispersion Modelling Studies on Gas turbine discharges – November 2015
- 22) Tonkin & Taylor Ltd – Air Dispersion Modelling Studies on Reciprocating engine discharges – November 2015
- 23) Clough and Associates Ltd – Trans-Tasman Resources South Taranaki Bight Offshore Iron Sand Project: Archaeological Assessment – December 2015
- 24) Martin Cawthorn Associates Ltd – Cetacean Monitoring Report – November 2015
- 25) Fathom – Assessment of Potential Impacts on Commercial Fishing – November 2015
- 26) R.N. Barlow and Associates Limited – Maritime and Navigational Impacts of the Project – November 2015
- 27) Marico Marine – South Taranaki Bight Marine Traffic Study – December 2015
- 28) Hegley Acoustic Consultants – Assessment of Noise Effects – November 2015
- 29) Rob Greenaway & Associates – Recreation and Tourism Assessment of Effects – November 2015
- 30) Corydon Consultants Ltd – Social Impact Assessment – January 2016
- 31) Boffa Miskell – Visual Effects Report and Graphic Supplement – November 2015
- 32) OCEL Consultants – Implications of Loose Tailings Seabed Material on Future Jack-Up Deployment
- 33) MetOcean Solutions Ltd – Oil Spill Trajectory Modelling – January 2014
- 34) Te Taihauauru Iwi Forum Fisheries Plan 2012 – 2017
- 35) Richardson, K, 'A perspective of marine mining within De Beers', The Journal of The South African Institute of Mining and Metallurgy, Volume 107.
- 36) Findlay, K, P. The Impact of Diamond Mining Noise on Marine Mammal Fauna off Southern Namibia, June 1996
- 37) Institute for Maritime Technology – Environmental Impact Study: Underwater Radiated Noise, 1994
- 38) Institute for Maritime Technology – Environmental Impact Study: Underwater Radiated Noise II, 1995
- 39) eCoast Potential Effects of Trans Tasman Resources Mining Operations on Surfing Breaks in Southern Taranaki Bight, November 2015
- 40) Martin Jenkins Ltd - Economic Impact Analysis of the Offshore Iron Sands Project – October 2015
- 41) Tahu Potiki - Cultural Values Assessment and Analysis – August 2016

41) Auckland University of Technology – Iron Sand extraction in the South Taranaki  
Bight: effects on trace metal contents of sediment and seawater – September 2013

58. TTIS061\_Memorandum\_of\_Counsel\_Regarding\_Protection\_of\_Sensitive\_Information.pdf(PDF, 305 KB)
59. TTIS062\_s158\_Report\_3(a)\_HRW\_Lab\_Testing\_Sediments.pdf(PDF, 3.7 MB)
60. TTIS063\_s158\_Report\_3(b)\_HRW\_Source\_Terms\_and\_Sediment\_Properties\_October\_2015.pdf(PDF, 6.2 MB)
61. TTIS064\_s158\_Report\_3(c)\_NIWA\_Sediment\_Plume\_Modelling\_Report.pdf(PDF, 11 MB)
62. TTIS065\_s158\_Report\_3(d)\_NIWA\_Optical\_Effects\_Report.pdf(PDF, 7.7 MB)
63. TTIS066\_s158\_Report\_3(e)\_Additional\_Economic\_information.pdf(PDF, 251 KB)
64. TTIS067\_Letter\_to\_EPA\_in\_support\_of\_s158\_request.pdf(PDF, 137 KB)
65. TTIS068\_s158\_Memo\_on\_contribution\_of\_source\_terms\_for\_the\_hydrodynamic\_model\_Pinkerton.pdf(PDF, 713 KB)
66. Cawthron\_Report.pdf(PDF, 1.9 MB)
67. EPA\_Conditions\_Report\_Final.pdf(PDF, 1.6 MB)
68. EPA\_Key\_Issues\_Report - Final - 29 September 2016.pdf(PDF, 837 KB)
69. HRC\_response.pdf(PDF, 212 KB)
70. MBIE\_response.pdf(PDF, 645 KB)
71. Memorandum\_of\_Counsel\_for\_Fisheries\_Submitters.pdf(PDF, 399 KB)
72. Port\_Taranaki\_Dredging\_Report.pdf(PDF, 6.1 MB)
73. Robertson\_Review\_of\_Fathom\_Report\_and\_others.pdf(PDF, 616 KB)
74. Section\_44\_response\_from\_Maritime\_New\_Zealand.pdf(PDF, 1.2 MB)
75. Taranaki\_Regional\_Council\_Response\_Section\_44.pdf(PDF, 915 KB)
76. TTRL\_AOS.pdf(PDF, 5.9 MB)
77. WorkSafe\_s44\_response.pdf(PDF, 206 KB)
78. Longdill\_March\_2017\_Comment\_on\_Sediment\_Plume.pdf(PDF, 321 KB)
79. Nga Kaihautu Report for TTRL application.pdf(PDF, 1.1 MB)