IN THE MATTER of the Resource Management Act 1991

("RMA" or "the Act")

AND

IN THE MATTER of an application to Kaipara District

Council for resource consent by

Tararua Wind Power Ltd

(RM200234) to construct, operate and maintain up to 19 wind turbines within a defined project envelope on the property at 379 Maitahi Road,

Omamari, legally described at Lot 1 DP 201886. (Referred to as **Kaiwaikawe**

Wind farm).

JOINT WITNESS STATEMENT(JWS) OF EXPERTS IN RELATION TO AVIFAUNA AND PLANNING

30 SEPTEMBER 2021

Expert Witness Conferencing Topic: Avifauna & Planning

Held on: 30 September 2021 at 9:00am

Venue: Via online video conference

Facilitator: Marlene Oliver

Admin Support: Polly Smith

1. ATTENDANCE

1.1 The list of expert participants is in the schedule at the end of this Statement. Their area of expertise (avifauna (A) or planning (P)) is indicated in that schedule.

2. BASIS OF ATTENDANCE AND ENVIRONMENT COURT PRACTICE NOTE 2014

- 2.1 All participants agree as follows:
 - (a) The Environment Court Practice Note 2014 provides relevant guidance and protocols for the expert conferencing session.
 - (b) They will comply with the relevant provisions of the Environment Court Practice Note 2014.
 - (c) They will make themselves available to appear at the hearing in person if required to do so by the Hearing Panel (as directed by the Hearing Panel's directions).
 - (d) This JWS report is to be filed with the Hearing Panel.

3. AGENDA - ISSUES TO BE CONSIDERED AT CONFERENCING

- 3.1 The issues identified as forming the agenda for conferencing were:
 - (a) Expert Panel;
 - (i) For the outcome of Expert Conferencing on 30/9/21 refer to condition 52G in Attachment 1;
 - (ii) Some general concepts were discussed and agreed. Further conversation is to be undertaken by the planning experts.
 - (b) Pre-Construction Surveying / Monitoring;
 - (i) For the outcome of Expert Conferencing on 30/9/21 refer to condition 53AA in the DOC set of conditions in Attachment 1;
 - (ii) There are some further subtopics and particulars of conditions that require further conferencing.
 - (c) Australasian Bittern Monitoring and Management Plans;
 - (i) For the outcome of Expert Conferencing on 30/9/21 refer to conditions 54C of the Applicant's set of conditions and 54E of DOC's set of conditions in Attachment 1.
 - (d) Post Construction Monitoring and Management Responses;
 - (i) This topic was not discussed on 30/9/21.
 - (e) Management of Stock Ponds;
 - (i) For the outcome of Expert Conferencing on 30/9/21 refer to conditions numbered 62 in Attachment 1;
 - (ii) There are three further conditions (62F, 62G and 62H) to be discussed.
 - (f) Requirement for a Design and Operations Report;
 - (i) This topic was not discussed on 30/9/21.
 - (g) Other Matters.
 - (i) This topic was not discussed on 30/9/21.

4. OUTCOMES OF EXPERT CONFERENCING

- 4.1 The outcomes from Expert Conferencing on 30/9/21 are identified above in section 3 of this JWS.
- 4.2 It was agreed that further Expert Conferencing (avifauna and planning) would take place on 12/10/21.

5. PARTIES TO THIS JOINT WITNESS STATEMENT

- 5.1 The participants to this Joint Witness Statement confirm that:
 - (a) They agree with the outcomes of the expert conference as recorded in this statement. As this session was held online and there is an existing hearing timetable, in the interests of efficiency, it was agreed that each expert would

- verbally confirm their position to the Facilitator during the online conference. This is recorded in the schedule below; and
- (b) They agree with Section 2 above, being the Basis of Attendance and Environment Court Practice Note 201; and
- (c) They have read Appendix 3 of the Environment Court's Practice Note 2014 and agree to comply with it; and
- (d) The matters addressed in this statement are within their area of expertise.

CONFIRMED ON 30 SEPTEMBER 2021

EXPERT NAME	PARTY	EXPERT'S CONFIRMATION (REFER PARA 5.1)
Richard Turner P	Applicant	Yes
Dwayne Daly P	KDC	Yes
Maggie Burns P	DOC	Yes
Ueli Sasagi P	KDC	Yes
Stephen Fuller A	Applicant	Yes
Della Bennet A	KDC	Yes
Rhys Burns A	DOC	Yes
Emma Williams A	DOC	Yes

KAIWAIKAWE WIND FARM

PROPOSED CONDITIONS - EXPERT CONFERENCING TABLE – AVIFAUNA & PLANNING 30 SEPTEMBER 2021

(inclu TWP TWP	osed Condition – 18 August 2021 uding any matters agreed between experts for L and KDC, and matters agreed between L, KDC and DOC prior to conferencing ugh circulation of conditions)	Department of Conservation Condition – 9 Septe 2021	mber TARARUA WIND POWER LIMITED RESPONSE	DEPARTMENT OF CONSERVATION RESPONSE	KAIPARA DISTRICT COUNCIL RESPONSE
GEN			-	1	
2.	Pursuant to Section 125(1) of the Resource Management Act 1991, this resource consent shall lapse if not given effect to within 10 years of the commencement of this resource consent.	Pursuant to Section 125(1) of the Resource Manageme this resource consent shall lapse if not given effect to years of the commencement of this resource consent	within <u>5</u> 10		
SUPI	PORTING INFRASTRUCTURE		·		·
21.	The maximum height of each temporary meteorological mast shall be no greater than the hub-height of the wind turbines that are to be installed.	21. The maximum height of each temporary meteorological shall be no greater than the hub-height of the wind to are to be installed and cross-section dimensions will be than 10m x 10m.	rbines that		
23.	The maximum height of the development / investigation meteorological mast shall be 120 metres above finished ground level.	23. The maximum height of the development / in meteorological mast shall be 120 metres above finish level.			
25.	The maximum height of each permanent meteorological mast shall be no greater than the hubheight of the wind turbines that are to be installed.	25. The maximum height of each permanent meteorological shall be no greater than the hub-height of the wind to are to be installed and cross-section dimensions will be than 10m x 10m.	rbines that		
PLAN	NS AND FINAL DESIGN AND OPERATION REPO	ORT		•	
31.	At least 40 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the Resource Consents Manager - Kaipara District Council with a set of final design drawings and accompanying detailed design report for the Kaiwaikawe Wind Farm. The final design drawings shall, as a minimum, include: a. The layout and spacing of the wind turbines;	31. At least 40 working days prior to the commen construction works authorised as part of this resource the consent holder shall provide the Group Mention the Environmental Services, Kaipara District Council with final design drawings and accompanying detailed Finand Operation report for the Kaiwaikawe Wind Farm design drawings shall, as a minimum, include: a. The layout and spacing of the wind turbines;	re consent, Manager - th a set of al_dDesign		
	b. The specifications of the wind turbines, turbine platforms, foundations and hard stand areas;c. The location and specifications of all supporting	b. The specifications of the wind turbines, turbine foundations and hard stand areas;			
	c. The location and specifications of all supporting infrastructure, including the location and design of	c. The location and specifications of all infrastructure, including the location and design and design.	- 1		

any permanent stormwater controls, wastewater infrastructure and disposal fields and water supplies to be installed against the relevant engineering standards administered by the Kaipara District Council;

- d. The location of cabling within the Connection Envelope;
- e. The layout and pavement composition of the internal access road network; and
- f. The location of all fill disposal sites to be utilised.

The detailed design report for the Kaiwaikawe Wind Farm shall, as a minimum, include:

- g. A slope stability assessment of any cuts and fills that are required (and which are verified by a suitably qualified and experienced geotechnical engineer); and
- h. Hydraulic assessment of any stormwater infrastructure, including culvert inlet and outlet structures, demonstrating compliance with Kaipara District Council Engineering Standards 2011, and Auckland Council's "Hydraulic Energy Management: Inlet and Outlet Design for Treatment Devices, July 2013."

<u>transmission lines</u>, permanent stormwater controls, wastewater infrastructure and disposal fields and water supplies to be installed against the relevant engineering standards administered by the Kaipara District Council;

- d. The location of cabling within the Connection Envelope;
- e. The layout and pavement composition of the internal access road network; and
- f. The location of all fill disposal sites to be utilised.

31AA. The detailed Final dDesign and Operation rReport for the Kaiwaikawe Wind Farm shall, as a minimum, include:

- a. A slope stability assessment of any cuts and fills that are required (and which are verified by a suitably qualified and experienced geotechnical engineer); and
- b. Hydraulic assessment of any stormwater infrastructure, including culvert inlet and outlet structures, demonstrating compliance with Kaipara District Council Engineering Standards 2011, and Auckland Council's "Hydraulic Energy Management: Inlet and Outlet Design for Treatment Devices, July 2013.";
- c. The final detailed design and operational parameters for the Kaiwaikawe Wind Farm, which shall be updated annually in accordance with Condition 31AB, including:
- i. Any changes made to the design of the wind farm from that set out in the Application documents to address the results from, and analysis of, the monitoring for Australasian bittern undertaken in accordance with Conditions 53 and 54C(a) and any changes set out in the Australasian Bittern Monitoring and Management Plan in accordance with Conditions 54A to 54D;
- from that set out in the Application documents to address the results from, and analysis of, the monitoring for Australasian bittern undertaken in accordance with Conditions 53 and 54C(a) and any changes set out in the Australasian Bittern Monitoring and Management Plan in accordance with Conditions 54A to 54D;

		1	
	Any changes to the eneration of the wind form or		
iii.	Any changes to the operation of the wind farm or		
	measures to address adverse effects as set out in the		
	Baseline Survey Report in accordance with Condition		
	<u>54H;</u>		
iv.	Any changes made to the design of the wind farm		
	from that set out in the Application documents to		
	address the results from, and analysis of, the		
	monitoring for Long-tailed bats undertaken in		
	accordance with Condition 60D, as set out in the		
	Long-Tailed Bat Monitoring and Management Plan in		
	Condition 60C and/or the Turbine Survey Report		
	prepared in accordance with Condition 60J;		
	Any changes made to the operation of the wind farm		
V.			
	from that set out in the Application documents to		
	address the results from, and analysis of, the		
	monitoring for Long-tailed bats undertaken in		
	accordance with Condition 60D, as set out in the		
	Long-Tailed Bat Monitoring and Management Plan in		
	Condition 60C and/or the Turbine Survey Report		
	prepared in accordance with Condition 60J;		
vi.	Any responses to breaches of Mitigation Review		
	thresholds and/or Immediate Review Thresholds for		
	avifauna in Conditions 58Fa, 58J and/or 58R;		
	avitatina in Conditions 30r a, 303 una/or 30k,		
vii.	Any responses to breaches of Mitigation Review		
	thresholds and/or Immediate Review Thresholds for		
	Long-tailed bats in Conditions 60C and/or 60D;		
viii.	Any changes to the operation or design of the wind		
	farm as a result of one or more Australasian Bittern		
	being found injured or deceased under Condition		
	<u>55B(c);</u>		
	A		
ix.	Any measures required as a result of bird of Long		
	tailed bat mortality as set out in the Bird and Long-		
	tailed Bat Collision Monitoring Plan under Condition		
	<u>58E(c)</u>		
x.	Any changes to the operation or design of the wind		
^.	farm as a result of one or more Long-tailed bat being		
	found injured or deceased under Condition 60D(Bbb);		
	and		
	anu		
xi.	Any recommendations by the expert panel for		
	ongoing monitoring following the development of the		
	wind farm or in response to the results of monitoring		

			or any immediate review or urgent review in		
			accordance with Condition 55B(b);		
		31AB.	The Final Design and Operation Report shall be updated		
			annually to respond to the results of carcass monitoring		
			undertaken in accordance with Conditions 55B and 60D; and		
			any measures required to be undertaken to address adverse		
			effects on avifauna and/or Long-tailed bats required by		
			Conditions 54D, 55B, 58Fa and/or Condition 60D.		
		31AC.	At least 80 working days prior to the commencement of		
		<u> </u>	construction works authorised as part of this resource consent,		
			the consent holder shall provide the expert panel with the draft		
			Final Design and Operation Report required in accordance with		
			Condition 31AA for review and comment.		
		31AD.	The expert panel shall provide its written comments (if any) on		
			the draft Final Design and Operation Report to the consent		
			holder within 20 working days of receipt of the report from the		
			consent holder.		
		2115	The concent helder shall submit the Final Design and Operation		
		SIAE.	The consent holder shall submit the Final Design and Operation Report, including all written comments provided by the expert		
			panel and the consent holder's response to those comments, to		
			the Group Manager - Environmental Services, Kaipara District		
			Council for certification that the plan meets the requirements in		
			Condition 31AA(c).		
			Condition Stancy.		
		31AF.	The first time the Plan is submitted, construction, including		
			establishment works, cannot commence until the Plan has been		
			certified by the Group Manager – Environmental Services,		
			Kaipara District Council in accordance with the process outlined		
			<u>above</u>		
		31AG.	A draft of all annual updates to the Final Design and Operation		
			Report shall be provided to the Expert Panel for review and input		
			prior to being provided to the Group Manager - Environmental		
			Services, Kaipara District Council for certification, in accordance		
			with the process set out in Conditions 31AC to 31AE.		
		31AH.	The consent holder shall provide a copy of the Final Design and		
			Operation Report, and all updates to the report, to the		
			Consultative Group for its information, within 20 working days of		
			submission to the Group Manager - Environmental Services,		
			Kaipara District Council.		
١.	The consent holder shall provide the planned staging	31 <u>ABB</u> .	The consent holder shall provide the planned staging of works		
	of works for the Kaiwaikawe Wind Farm to Mana		for the Kaiwaikawe Wind Farm to Mana Whenua Kaitiaki (Te		
	Whenua Kaitiaki (Te Roroa) at least 60 working days		Roroa) at least 60 working days prior to the commencement of		
			construction works authorised as part of this resource consent.		

	prior to the commencement of construction works	A copy of the correspondence provided to Mana Whenua	
	authorised as part of this resource consent. A copy of	Kaitiaki (Te Roroa) shall also be forwarded to the Group Manager	
	the correspondence provided to Mana Whenua Kaitiaki	 Environmental Services, Kaipara District Council. 	
	(Te Roroa) shall also be forwarded to the Resource		
	Consents Manager – Kaipara District Council.		
	THWORKS AND CONSTRUCTION hworks and Construction Management Plan		
		22 At least 20 weeking days price to the commonweal of	
33.	At least 20 working days prior to the commencement	33. At least 20 working days prior to the commencement of	
	of construction works authorised as part of this	construction works authorised as part of this resource consent,	
	resource consent, the consent holder shall submit an	the consent holder shall submit an Earthworks and Construction	
	Earthworks and Construction Management Plan to the	Management Plan to the Group Manager - Environmental	
	Resource Consents Manager - Kaipara District Council	Services, Kaipara District Council for certification that the plan	
	for certification that the plan meets the objectives in	meets the objectives in Condition 33(a) to (g). The Earthworks	
	Condition 33(a) to (g). The Earthworks and Construction	and Construction Management Plan shall be prepared by an	
	Management Plan shall be prepared by an experienced	experienced and appropriately qualified person and shall	
	and appropriately qualified person and shall provide for	provide for the following objectives:	
	the following objectives:		
	a. Minimise the volume of earthworks required for	a. Minimise the volume of earthworks required for the	
	the construction of the Kaiwaikawe Wind Farm	construction of the Kaiwaikawe Wind Farm and ensure	
	and ensure slope stability of any cuts or fills that	slope stability of any cuts or fills that are required;	
	are required;		
	b. Maximise the effectiveness of erosion and	b. Maximise the effectiveness of erosion and sediment control	
	sediment control measures associated with	measures associated with earthworks by minimising	
	earthworks by minimising sediment generation	sediment generation and sediment laden runoff	
	and sediment laden runoff (particularly in locations	(particularly in locations adjacent to the Maitahi Wetland /	
	adjacent to the Maitahi Wetland /	Waitakahuruhuru Stream and the Omamari Station Wetland	
	Waitakahuruhuru Stream and the Omamari	and Shrubland Crossings);	
	Station Wetland and Shrubland Crossings);	3-1/	
	c. Minimise the overall area of disturbance so as to	c. Minimise the overall area of disturbance so as to reduce the	
	reduce the potential impact on any vegetation,	potential impact on any vegetation, wetlands, indigenous	
	wetlands and potential archaeological features	fauna and potential archaeological features within the	
	within the Project Site;	Project Site;	
		roject site,	
	d. Ensure control and / or mitigation of the adverse	d. Ensure control and / or mitigation of the adverse effects of	
	effects of any dust emissions;	-	
	,	any dust emissions;	
	e. Minimise the effects, and introduction, of weeds;	Minimise the effects and introduction of woods	
		e. Minimise the effects, and introduction, of weeds;	
	f. Ensure that fill disposal sites are contoured to	f Francisco that fill discussed states and the state of t	
	generally reflect the surrounding landforms; and	f. Ensure that fill disposal sites are contoured to generally	
	goo.a., .aact the darrounding lundronnia, thu	reflect the surrounding landforms; and	
	g. Rehabilitate and re-vegetate worked areas so that		
	they are returned to pasture or their existing	g. Rehabilitate and re-vegetate worked areas so that they are	
	- 1	returned to pasture or their existing vegetative cover.	
	vegetative cover.	h Incorporation of moscures in the Australasian Dittara	
		h. <u>Incorporation of measures in the Australasian Bittern</u>	
		Monitoring and Management Plan and Long-Tailed Bat	

	T	
		Monitoring and Management Plan to achieve a zero net
		impact outcome as a result of construction on Australasian
		Bittern and Long-Tailed bats.
34.	In order to achieve the objectives established in	34. In order to achieve the objectives established in Condition 33
	Condition 33 above, the Earthworks and Construction	above, the Earthworks and Construction Management Plan shall,
	Management Plan shall, as a minimum, address the	as a minimum, address the following matters:
	following matters:	
35.		
	a. An explanation of how the Earthworks and	a. An explanation of how the Earthworks and Construction
	Construction Management Plan shall be	Management Plan shall be implemented and the
	implemented and the associated roles,	associated roles, responsibilities and contact details for
	responsibilities and contact details for the	the principal persons responsible for management during
		the construction period;
	principal persons responsible for management	
	during the construction period;	
		b. A clear description of the planned staging of works and the
	b. A clear description of the planned staging of	description of earthworks in each stage, including detailed
	works and the description of earthworks in each	
	stage, including detailed site plans;	site plans;
		Detailed many was far subsection.
	c. Detailed measures for subsoil drainage;	 Detailed measures for subsoil drainage;
	d. Detailed measures for the infilling of stock ponds,	d. Detailed measures for the infilling of stock ponds, which
	which shall include:	shall include:
	i Downtoring of the steel pends in the	i Dowatoring of the stack pends in the presence of an
	i. Dewatering of the stock ponds in the	i. Dewatering of the stock ponds in the presence of an
	presence of an freshwater ecologist;	ecologist;
	ii. A fish 'muck-out' using standard accepted	ii. A fish 'muck-out' using standard accepted methods;
	methods; and	and
	ii. The transfer of any fish found in the stock	ii. The transfer of any fish found in the stock ponds to
	ponds to suitable waterbodies in the Project	waterbodies in the detailed measures proposed to
	Site (as identified by a freshwater ecologist).	capture and translocate native fish, koura and eels
		from the farm ponds prior to their draining and
	Note: Wildlife Permits under the Wildlife Act	infilling in accordance with the permit obtained from
	1953 may be required in order to	the Ministry for Primary Industries
	transfer any fish found during the	
	dewatering of stock ponds.	Note: Wildlife Permits under the Wildlife Act 1953 may
		be required in order to transfer any fish found
		during the dewatering of stock ponds.
	e. Confirmation of the volumes of cut, fill and	
	unsuitable material;	e. Confirmation of the volumes of cut, fill and unsuitable
		material;
	f. The location and design of fill disposal sites within	
	the Project Envelope, which shall not be located	f. The location and design of fill disposal sites within the
	in any of the following:	Project Envelope, which shall not be located in any of the
	·	following:
	i. Areas that are excessively wet,	-
	ii. Gullies with perennial watercourses;	 Areas that are excessively wet,
	ii. Guines with perennial watercourses,	i. Areas trial are excessively Wel,

- iii. Very steep slopes (> 28),
- iv. Erosion prone land (land defined as land use capability units VIe17, VIe19, VIIe1 - VIIe10, VIIIe1 - VIIIe3, and VIIIs1),
- v. Stock ponds with habitat for indigenous species.
- g. The engineering controls, supervision and certification that will be applied to each stage of development;
- h. The specific erosion, stormwater and sediment control measures that will be applied to each stage of earthworks, and particularly the measures that will be applied to minimise sediment generation and sediment laden runoff to the Maitahi Wetland / Waitakahuruhuru Stream and the Omamari Station Wetland and Shrubland Crossings;
- . Ground stabilisation measures, particular for cut and fill slopes;
- j. The engineering and management procedures for material sources, use, disposal and treatment, stockpiling, fill placement and disposal of unsuitable materials;
- k. The specific dust control measures that will be applied to each stage of earthworks and fill disposal sites;
- I. The location of the concrete batching plants within the Project Envelope, which shall be located at least 40 m from any wetland. In addition, the specific measures to contain / manage contaminant runoff and stormwater runoff from the concrete batching plants (e.g. bunds) shall be detailed;
- m. The measures to ensure that worked areas (excluding hard stand areas) are rehabilitated and re-vegetated as soon as practicable following earthworks, including:
 - The identification of the vegetation or pasture types and re-vegetation material

- ii. Gullies with perennial watercourses;
- iii. Very steep slopes (> 28 degrees),
- iv. Erosion prone land (land defined as land use capability units Vle17, Vle19, Vlle1 Vlle10, Vllle1 Vllle3, and Vllls1),
- v. Stock ponds <u>used by with habitat for indigenous avifauna</u> species.
- g. The engineering controls, supervision and certification that will be applied to each stage of development;
- h. The specific erosion, stormwater and sediment control measures that will be applied to each stage of earthworks, and particularly the measures that will be applied to minimise sediment generation and sediment laden runoff to the Maitahi Wetland / Waitakahuruhuru Stream and the Omamari Station Wetland and Shrubland Crossings;
- Ground stabilisation measures, particular for cut and fill slopes;
- The engineering and management procedures for material sources, use, disposal and treatment, stockpiling, fill placement and disposal of unsuitable materials;
- k. The specific dust control measures that will be applied to each stage of earthworks and fill disposal sites;
- I. The location of the concrete batching plants within the Project Envelope, which shall be located at least 40 100m from any wetland and shall ensure that no artificial light will spill into any wetland. In addition, the specific measures to contain / manage contaminant runoff and stormwater runoff from the concrete batching plants (e.g. bunds) shall be detailed;
- m. The measures to ensure that worked areas (excluding hard stand areas) are rehabilitated and re-vegetated as soon as practicable following earthworks, including:
 - The identification of the vegetation or pasture types and re-vegetation material and techniques to be used for rehabilitation purposes;

- and techniques to be used for rehabilitation purposes;
- The programme and timing of re-vegetation and maintenance activities so that stabilised surface coverage of 80% is achieved within two months of the completion of earthworks in a particular location;
- The retention of surface cover in order to reduce the effects from sediment-laden stormwater runoff;
- iv. Contouring of side-throw material and grading out or feathering of any cut / fill batters to merge with the landform contours, where appropriate; and
- The identification of weed management activities to be undertaken.
- n. Details on the frequency of inspections and monitoring of all stormwater, dust, erosion and sediment control measures throughout each stage of construction works, including details of the experienced and appropriately qualified person responsible for inspections and monitoring.

- The programme and timing of re-vegetation and maintenance activities so that stabilised surface
- effects from sediment-laden stormwater runoff;
- iv. Contouring of side-throw material and grading out or feathering of any cut / fill batters to merge with the landform contours, where appropriate; and
- be undertaken.
- Details on the frequency of inspections and monitoring of monitoring.

No earthworks shall be carried out between 1 May and 20 September, inclusive, in any year unless the works are undertaken in accordance with Conditions 6 and 7 of the consent holder's resource consent from the Northland Regional Council AUT.042456.01.01 granted on 5 May 2021.

- coverage of 80% is achieved within 12 months of the completion of earthworks at each location;
- The retention of surface cover in order to reduce the
- The identification of weed management activities to
- all stormwater, dust, erosion and sediment control measures throughout each stage of construction works, including details of the experienced and appropriately qualified person responsible for inspections and

EXPERT AVIFAUNA / LONG-TAILED BAT PANEL

Establishment of Expert Avifauna / Long-Tailed Bat Panel

- 52G. At least 80 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the names and curriculum vitae of four independent experts with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager -Environmental Services, Kaipara District Council. Two of the experts shall be nominated by the Department of Conservation (Director, Operations, Northern North Island), and two shall be nominated by the consent holder.
- 52G. At least 80 120 working days prior to commissioning the monitoring required under Condition 53 the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the names and curriculum vitae of four-six independent experts with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager -Environmental Services, Kaipara District Council. Two of the experts shall be nominated by the Department of Conservation (Director, Operations, Northern North Island), two shall be nominated by the consent holder and two shall be nominated by the Group manager - Environmental Services, Kaipara District Council.
- The following bullet points record the positions of the experts as they relate to this topic area. The bullet points do not necessarily correlate with the condition number that sits opposite. These matters will be referred back to the planning experts for detailed drafting.
 - RT and SF consider that separate panels for bird and bats are appropriate because of the lack of overlap in their ecology, and to ensure the expertise on the panel are suitably qualified and experienced.
 - RT and SF are accepting of the consent holder and DOC each nominating one expert to the Council for selection to panel membership.
- MB, RB and EW agree.
- MB, RB and EW agree.

DD, US and DB agree.

DB, US and DD agree.

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Notwithstanding Condition 52G above, the two experts nominated by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to, the Department of Conservation.	52H.	Notwithstanding Condition 52G above, the two experts nominated by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to, the Department of Conservation.	 RT agrees that the conditions should provide for KDC to confirm the nominated experts have appropriate qualifications and experience and can ask parties to resubmit a nominee if necessary. SF agrees. RT agrees that the conditions 	 MB, RB and EW agree. MB, RB and EW agree. 	 DB, US and DD agree. DB, US and DD agree.
The Group Manager – Environmental Services, Kaipara District Council shall select two experts from the names provided by the consent holder to form an expert panel in accordance with Condition 52J below. One	521.	The Group Manager – Environmental Services, Kaipara District Council shall select two three experts from the names provided by the consent holder to form an expert panel in accordance with Condition 52J below. One expert must be from the names	should clarify that where panel members cannot reach a consensus, that they should record their independent views to the consent holder and Council. SF agrees.		
expert must be from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder.		submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder, and one from the names submitted by the Group manager — Environmental Services, Kaipara District Council. The Panel shall meet the following criteria:	- RT considers the words in 52G to be suitable.	- MB agrees that 52I(b) can be deleted in the context that 52G appropriately captures the description of the nominated experts. However, further discussion is required as to if a cryptic and wetland avifauna expert is part of this panel.	 DD considers that the condition wording could be more generalized to reflect 'avifauna expert'.
		a) At least one of whom shall be experienced in avifauna ecology, one of whom shall be experienced in long-tailed bat ecology and one of whom shall be a cryptic and wetland avifauna expert.			
		b) Be suitably qualified and have demonstrated expertise in their field.			
	52IA	The Panel may co-opt other independent specialist members to assist in any of its functions for specified periods subject to the approval of the Group Manager – Environmental Services, Kaipara District Council.			
The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council.	52J.	The consent holder shall establish the expert panel within five working days of the selection of the three experts by the Group Manager – Environmental Services, Kaipara District Council three consents the expert panel within five working days of the selection of the three experts by the Group Manager – Environmental Services, Kaipara District Council three experts by the Group Manager – Environmental Services, Kaipara District Council three experts by the Group Manager – Environmental Services, Kaipara District Council three experts of the experts of th			
is unable, for whatever reason, to continue in their role in accordance with the conditions of this resource consent, the party which nominated the expert shall submit the two names and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager — Environmental Services, Kaipara	52K.	In the event that either any member of the expert panel is unable, for whatever reason, to continue in their role in accordance with the conditions of this resource consent, the party which nominated the expert shall submit the two names and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager – Environmental Services, Kaipara District Council for approval.			
	nominated by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to, the Department of Conservation. The Group Manager – Environmental Services, Kaipara District Council shall select two experts from the names provided by the consent holder to form an expert panel in accordance with Condition 52J below. One expert must be from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder. The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council. In the event that either any member of the expert panel is unable, for whatever reason, to continue in their role in accordance with the conditions of this resource consent, the party which nominated the expert shall submit the two names and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the	nominated by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to, the Department of Conservation. The Group Manager – Environmental Services, Kaipara District Council shall select two experts from the names provided by the consent holder to form an expert panel in accordance with Condition 52J below. One expert must be from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder. 521. The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council. In the event that either any member of the expert panel is unable, for whatever reason, to continue in their role in accordance with the conditions of this resource consent, the party which nominated the expert shall submit the two names and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager – Environmental Services, Kaipara	nominated by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to, the Department of Conservation. The Group Manager – Environmental Services, Kaipara District Council shall select two experts from the names provided by the consent holder form an expert panel in accordance with Condition 52J below. One expert must be from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the Consent holder. The Group Manager – Environmental Services, Kaipara District Council shall select two three experts from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the Consent holder. The anages submitted by the consent holder. The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council. The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council. The consent holder shall establish the expert panel within five working days of the selection of the two experts by the Group Manager – Environmental Services, Kaipara District Council and selection will occur no later than 80 days prior to commissioning of monitoring required under Condition 53. In the event that estine any member of the expert panel is unable, for whatever reason, to continue in their role in accordance with the conditions of this resource consent, the party which nominated the expert shall submit the two names and curriculum vitae of a replacement expert with appropriate qualifications and experience in the monitoring of avifauna and long-tailed bat ecology and / or risk assessment to the Group Manager – Environmental Services, Kaipara District Council for	Nominised by the Department of Conservation (Director, Operations, Northern North Island) may be employees of, or contractors to. The Group Manager – Environmental Services, Kalpara District Council Island, select two experts from the names provided by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the consent holder to form an expert panel in accordance with Condition S21 below. One expert must be from the names submitted by the consent holder by the Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder. Services, Scalpara District Council. The Panel shall be a cryotic and wediant advaluance except. **B. Bas suitably qualified and have demonstrated expertise in their field.** **Scalpara District Council The Panel shall be a cryotic and wediant shall be a cryotic and wediant advaluance except. **Department of Conservation (Director, Operations, Northern North Island), and one expert must be from the names submitted by the consent holder. **Scalpara District Council The Panel shall be a cryotic and wediant advaluance except. **Department of Conservation (Director, Operations, Northern North Island), and one expert panel wediant advances. **Scalpara District Council The Panel shall be a cryotic and	monitoriated by the Department of Conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations, Nathern Nath Mand) may be expected by the conservation (Director, Operations) (Dir

52L.	The role of the expert panel is to assist the Group	52L. The role of the expert panel is to assist the Grou	
	Manager – Environmental Services, Kaipara District	Manager – Environmental Services, Kaipara District Council	
	Council with the following:	with the following:	
	a. The provision of advice and assistance to the	a. The provision of advice and assistance to the conser	
	consent holder in respect of the consent holder's	holder in respect of the consent holder's responsibilities i	
	responsibilities in accordance with this resource	accordance with this resource consent in relation to the	
	consent in relation to the monitoring and	monitoring and management of potential adverse effect	
	management of potential adverse effects on bird	on bird species (particularly Australasian Bittern) and long	
	species (particularly Australasian Bittern) and	tailed bats;	
	long-tailed bats;		
	b. The provision of oversight, and input into, the	b. The provision of oversight, and input into, the	
	implementation of the conditions of this resource	implementation of the conditions of this resource conser	I
	consent relating to the monitoring and	relating to the final design and operation of the wind farm	
	management of potential adverse effects on bird	and the monitoring and management of potential advers	
	species (particularly Australasian Bittern) and	effects on bird species (particularly Australasian Bittern	
	long-tailed bats on behalf of the Group Manager –	and long-tailed bats on behalf of the Group Manager	
	Environmental Services, Kaipara District Council;	Environmental Services, Kaipara District Council; and	
	and		
		c. The provision of advice and assistance to the conser	
	c. The provision of advice and assistance to the	holder and the Group Manager – Environmental Services	
	consent holder and the Group Manager –	Kaipara District Council in the event of any bird or ba	
	Environmental Services, Kaipara District Council in	mortality events or investigations.	
	the event of any bird or bat mortality events or		
	investigations.	52M The consent holder shall provide the Panel with all records, ray	
		data, plans, designs and other information that the Panel ma	
		request to undertake its review, and shall afford the Panel fu	
		access to the site at reasonable times. This includes the fina	
		Design and Operation Report and annual updates thereof.	
		52MAA The Expert Panel shall endeavour to provide a consensus view	
		where possible. Where a consensus view cannot be reached	
		Panel members shall provide their individual recommendation	
		and advice.	
		52MAB The consent holder shall prepare Terms of Reference (ToR) for	
		the Expert Panel, which shall be provided in draft to the	
		Department of Conservation (Director, Operations, Norther	
		North Island) for written comments within 20 working days of	
		receipt of the draft ToR. The consent holder shall provide the	
		TOR which shall address any comments made by the	
		Department of Conservation (Director, Operations, Norther	
		North Island), to the Group Manager – Environmental Services	
		Kaipara District Council for certification prior to the Exper	
		Panel exercising any of its functions under Conditions 52G to	
		<u>52N.</u>	١

52M.	The consent holder shall meet the reasonable costs	52 <u>MN</u>	. The consent holder shall meet the reasonable costs incurred		
	incurred by the expert panel in undertaking its duties as		by the expert panel in undertaking its duties as set out in		
	set out in Condition 52L above, subject to normal		Condition 52L above, subject to normal business practices of		
	business practices of invoicing and accounting.		invoicing and accounting.		
AUS	TRALASIAN BITTERN MONITORING / MANAGE	MENT			
Base	line Survey of Australasian Bittern				
		53AA	For the purpose of this consent, Australasian Bittern Habitat		
			(hereafter referred to as "bittern habitat") shall be identified and		
			mapped both within the Project Envelope and from the perimeter		
			of the Project Envelope to a distance of 5km. Bittern habitat is		
			defined as the following:		
			Dranding habitat includes any wattends soons and		
			a. Breeding habitat includes any wetlands, seeps and		
			saturated areas with one or more of the following		
			<u>vegetation types:</u> i. <u>Carex sedgelands</u>		
			ii. Rank grass > 20 cm in height with ephemeral		
			<u>water</u>		
			iii. <u>Flaxlands</u> iv. Raupō reedlan <u>d</u>		
			v. Eleocharis sedgeland		
			vi. Rushes including but not limited to any		
			Juncus spp > 20 cm in height		
			vii. Wet Leptospermum scoparium scrub and shrubland > 5cms water depths		
			viii. <u>Baumea spp sedgeland</u>		
			ix. Schoenoplectus spp sedgeland		
			 Jointed rush dominant saltmarsh, inluding but not limited to: Juncus spp, Apodasmia 		
			similis, Schoenoplectus spp, Plagianthus		
			quinqueflora herbfield		
			xi. Low sedgeland		
			xii. <u>Mangrove forest and shrubland</u> xiii. Gleichenia spp, fernalnd		
			xiv. Empodisma spp sedgeland		
			xv. <u>Peat bog</u>		
			xvi. Salt marsh including but not limited to:		
			Salicornia quinequeflora herbfield xvii. Bolboscoenus caldwellii sedgeland		
			xviii. Salix spp forest and treeland		
			xix. <u>Kahikatea swamp forest</u>		
			xx. Red tussock		
			b. Non-breeding habitat includes any wetlands, seeps		
			and saturated areas with one or more of the following		
			<u>vegetation types:</u> i. <u>Carex sedgelands</u>		
			ii. Rank grass > 20 cm in height with ephemeral		
			water		
			iii. <u>Flaxlands</u> iv. <u>Raupō reedland</u>		
			v. <u>Kahikatea swamp forest</u>		
			vi. Rushes including but not limited to any		
			Juncus spp > 20 cm in height		
			 vii. Thick floating water plants > 10 cm in height, including but not limited to Glyceria spp; 		
			Mimulus spp; Water cress; Ludwigia spp;		
			Myriophyllum spp		
			viii. Baumea spp sedgeland		

T	ix. Schoenoplectus spp sedgeland		 Ι
	x. Jointed rush dominant saltmarsh, inluding		
	but not limited to: Juncus spp, Apodasmia		
	similis, Schoenoplectus spp, Plagianthus		
	divaricatus		
	xi. <u>Low sedgeland</u> xii. <u>Mangrove forest and shrubland</u>		
	xii. <u>Mangrove forest and shrubland</u> xiii. <u>Schoenus pauciflorus sedgeland</u>		
	xiv. Gleichenia spp, fernalnd		
	xv. Empodisma spp sedgeland		
	xvi. <u>Peat bog</u>		
	xvii. Salt marsh including but not limited to:		
	Salicornia quinequeflora herbfield xviii. Bolboscoenus caldwellii sedgeland		
	xix. Salix spp forest and treeland		
	xx. Red tussock		
	c. Any habitat type visited by an Australasian Bittern that		
	has been tagged as required by the Australasian		
	Bittern Tracking Programme in accordance with Condition 54.		
	Condition 5 1.		
	53. <u>During the three consecutive years immediately Pprior to the</u>		
. Prior to the commencement of construction of the	commencement of construction of the Kaiwaikawe Wind Farm,		
Kaiwaikawe Wind Farm, the consent holder shall (if it	^1		
has not already done so) undertake a baseline survey,	the consent holder shall (if it has not already done so) undertake		
for one spring season, for the presence of Australasian	a baseline monitoring survey, for one three spring seasons, for		
Bittern within the area around the Omamari Station	the presence of Australasian Bittern in bittern habitat the area		
Wetland in the vicinity of Maitahi Road, and the Maitahi	around the Omamari Station Wetland in the vicinity of Maitahi		
Wetland (as identified on the map attached as	Road, and the Maitahi Wetland (as identified on the map		
Appendix X to these conditions and dated X). The	prepared in accordance with Condition 53AA) attached as		
purpose of the baseline survey is to:	Appendix X to these conditions and dated X). The purpose of		
purpose of the baseline survey is to.	the baseline monitoring survey is to:		
a Further the understanding of the relative	*xi. Further the understanding of the relative		
a. Further the understanding of the relative	abundance and distribution of Australasian		
abundance and distribution of Australasian Bittern	Bittern in bittern breeding habitat (as defined		
within the area around the Omamari Station			
Wetland in the vicinity of Maitahi Road and the	in condition 53AA and identified as part of the		
Maitahi Wetland (as identified on the map	habitat mapping) within 5km of the project		
attached as Appendix X to these conditions and	<u>envelope</u> the area around the Omamari		
dated <mark>X</mark>);	Station Wetland in the vicinity of Maitahi Road		
	and the Maitahi Wetland (as identified on the		
	map prepared in accordance with Condition		
	53AA as identified on the map attached as		
	Appendix X to these conditions and dated X).		
b. Attempt to determine if Australasian Bittern are	·· <u>-</u>		
·			
breeding during the baseline survey period;	b. Attempt to determine if Australasian Bittern are breeding		
D	during the baseline survey period;		
c. Provide <u>and map</u> additional observations of			
c. Provide and map additional observations of Australasian Bittern and their behaviour at Maitahi		1	
	c. Provide <u>and map</u> additional observations of Australasian		
Australasian Bittern <mark>and their</mark> behaviour at Maitahi	c. Provide <u>and map</u> additional observations of Australasian Bittern <u>and their</u> behaviour at all Maitahi Road crossings		
Australasian Bittern and their behaviour at Maitahi Road crossings to confirm the potential design of	•		

 d. Use the results of the baseline survey, where possible, to validate the modelled estimates of collision risk mortality.

The baseline survey shall be undertaken in accordance with the following protocols:

- e. The survey method shall follow Department of Conservation monitoring protocols for Australasian Bittern "Protocols for the inventory and monitoring of the endangered Australasian Bittern (Botaurus poiciloptilus) in New Zealand";
- f. The survey shall involve at least five survey days and the utilisation of monitoring / recording equipment on site for at least four weeks, and shall be undertaken within the peak period of activity for Australasian Bittern (being the months of September, October and early November);

g. The survey method shall focus on male booming during breeding, and include: operation of the wind farm. requirements at these locations; and

d. Use the results of the baseline monitoring survey, where
possible, to validate test the modelled estimates of collision
risk mortality.

The baseline monitoring survey shall be undertaken in accordance with the following protocols:

- xxii. The monitoring survey method shall follow Department of Conservation monitoring Protocols for Australasian bittern "Protocols for the inventory and monitoring of populations of the endangered Australasian bittern (Botaurus poiciloptilus) in New Zealand";1
- The sSurveys shall use the Acoustic Triangulation method or Acoustic Recording Devices (Make and Model: DOC AR4) and remain consistent across years and survey periods. involve at least five survey nights and the utilisation of monitoring / recording equipment on site for at least four weeks, and shall be. Surveys are to be undertaken within the peak period of male booming activity for Australasian Bittern (being the months of September, October and early November) (being the period between 1 September and 7 November unless advised otherwise by the Department of Conservation (Director, Operations, Northern North Island)) and the daily time periods considered optimum for detecting bittern based on Williams et al. (2019)², including:
- xxiv. If recording devices are used, sound files must be processed according to the protocols outlined in O'Donnell & Williams (2015). For each survey year, a minimum of 6, 15-minute sound files must be processed per survey location (three morning times and three evening times) as per the optimum times described in Williams et al (2019).

Australasian bittern (Botaurus poiciloptilus) in New Zealand. Department of Conservation Technical Series 38

O'Donnell, C.F., Williams, E.M: 2015: Protocols for the inventory and monitoring of populations of the endangered

Williams, E. M., Armstrong, D. P., & O'Donnell, C. F. (2019). Modelling variation in calling rates to develop a reliable monitoring method for the Australasian Bittern Botaurus poiciloptilus. Ibis, 161(2), 260-271.

i. Call counts;			
ii. Acoustic recordings; and	xxv. If the Acoustic Triangulation method is used,		
iii. Site observations.	observers must listen for booms for a full hour		
	during each visit and must be positioned to		
h. The survey shall include any observations of	provide optimum coverage of the habitat.		
breeding behaviour and / or juveniles if possible;			
and	g. The survey method shall focus on male booming during		
	breeding, and include:		
i. The survey shall include any observations of			
activity around Omamari Station Wetland in the	xxvi.—Call counts;		
vicinity of Maitahi Road and the Maitahi Wetland	xxvii.—Acoustic recordings; and		
(as identified on the map attached as Appendix X	xxviii.—Site observations.		
to these conditions and dated X, and any other			
areas of the Project Envelope where activity is	xxix. The survey shall include any observations of		
observed.	breeding behaviour and / or juveniles if		
	possible; and		
	F		
	xxx. The survey shall record and map any		
	incidental observations of bittern within the		
	Project Site and include any observation of		
	activity around Omamari Station Wetland in		
	the vicinity of Maitahi Road and the Maitahi		
	Wetland (as identified on the map attached as		
	Appendix X to these conditions and dated X),		
	and any other areas of the Project Envelope		
	where activity is observed.		
	xxxi. <u>Trail cameras must be installed at road</u>		
	crossings to establish baseline utilisation		
	rates of these sites by bittern.		
Australasian Bittern Tracking Programme	1		
	54		
	54. To further inform Australasian Bittern mitigation, the Consent		
	Holder shall design and implement a bittern tracking		
	programme. The Tracking Programme shall be undertaken for		
	the following periods:		
	a) for a minimum of 2 consecutive years immediately prior		
	a) for a minimum of 3 consecutive years immediately prior to wind farm construction; and		
	to wind fariff construction, and		
	b) during the period construction starts until the wind farm		
	is commissioned; and		
	is commissioned, and		
	c) for a minimum of 3 consecutive years following the date		
	any wind turbine first generates electricity.		
	any mile tablic inst generates electricity.		
	54A. The Consent Holder will, in consultation with the Department		
	of Conservation (Director, Operations, Northern North Island),		
	or conservation (Pricetor, Operations, Northern North Blund),		l .

			endeavour to maintain a sample of a minimum of 15 GPS		
			tagged individual bitterns (a mix of birds caught locally and		
			regionally) using Druid Lego GSM GPS tags. If Druid Lego GSM		
			GPS tags cannot be used, the Consent Holder must consult		
			with the Department of Conservation (Director, Operations,		
			Northern North Island). The Tracking Programme shall be		
			undertaken as follows:		
			a) The GPS tags must measure height profiles and flight paths in addition to location.		
			b) Capture attempts must be prioritised so that those birds that are the closest to the windfarm are caught first, but		
			attempts should also be made to catch any birds within		
			the region that are accessible provided access		
			permissions and appropriate permits can be obtained.		
			c) Data collected from these tags must include sites of		
			importance, flight paths, home range size and height.		
		54B.	All raw data shall be made available on request and annually to		
			the Department of Conservation (Director, Operations, Northern		
			North Island).		
usti	alasian Bittern Monitoring and Management I	 Plan	NOTH ISIANA).		
		1		<u> </u>	
	At least 60 working days prior to the commencement	54 <u>AC</u> .	At least 60 working days prior to the commencement of		
	At least 60 working days prior to the commencement of construction works authorised as part of this	54 <u>AC</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent,		
	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the	54 <u>AC</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft		
	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern	54 <u>AC</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required		
	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the	54 <u>AC</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft		
Δ.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment.	54A <u>C</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment.		
Δ.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if	54AC. 54BD.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on		
A.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and	54A <u>C</u> .	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan		
Α.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20	54AC.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the		
Α.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent	54AC.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan		
A.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20	54AC.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the		
3.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent	54AC.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the		
A. 3.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent holder.	54AC. 54BD.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent holder.		
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A.B.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent holder. The consent holder shall submit the Australasian Bittern Monitoring and Management Plan, including all written comments provided by the expert panel and the consent holder's response to those comments, to the Group Manager - Environmental Services, Kaipara District Council for certification that the plan meets the objectives in Condition 54C(a) to (d). The Australasian	54AC. 54BD.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall provide the expert panel with the draft Australasian Bittern Monitoring and Management Plan required in accordance with Condition 54C for review and comment. The expert panel shall provide its written comments (if any) on the draft Australasian Bittern Monitoring and Management Plan to the consent holder within 20 working days of receipt of the plan from the consent holder. The consent holder shall submit the Australasian Bittern Monitoring and Management Plan, including all written comments provided by the expert panel and the consent holder's response to those comments, to the Group Manager - Environmental Services, Kaipara District Council for certification that the plan meets the objectives in Condition 54C(aa) to (de). The Australasian Bittern Monitoring and Management Plan shall		

- a. Monitoring of the relative abundance, breeding, behaviour and distribution of Australasian Bittern within the area around the Omamari Station Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map attached as Appendix X to these conditions and dated X);
- b. Validating the collision risk assessment for Australasian Bittern at the Kaiwaikawe Wind Farm;
- c. The creation or enhancement of 2 hectares of wetland habitat, together with predator control, within the Project Site for Australasian Bittern; and
- d. The identification of potential further measures to avoid, remediate or mitigate adverse effects on Australasian Bittern in the event that it is established that the construction or operation of the Kaiwaikawe Wind Farm has an adverse effect on the population of Australasian Bittern utilising the Omamari Station Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map attached as Appendix X to these conditions and dated X).
- Condition 54C above, the Australasian Bittern

- aa. The achievement of a zero net impact outcome for Australasian Bittern as a result of the operation of the Kaiwaikawe Wind Farm, and avoidance as the primary approach to addressing adverse effects;
- aaa. Specifying measures to ensure adverse effects on Australasian bittern are avoided, measures to ensure that changes are made to the construction methodology (including traffic management), design and/or operation of the Kaiwaikawe Wind Farm in the event of Australasian Bittern injury or mortality occurs as a result of its construction or operation.
- a. Monitoring of the male breeding population relative abundance, breeding, behaviour and distribution and flight behaviour (via GPS tracking) of Australasian Bittern in all bittern habitat within 5km of the project envelope the area around the Omamari Station Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map prepared in accordance with Condition 53AA on the map attached as Appendix X to these conditions and dated X) throughout the construction and operation of the Kaiwaikawe Wind Farm.
- b. Validating Updating the collision risk assessment for Australasian Bittern at the Kaiwaikawe Wind Farm;
- The creation or enhancement of 2 hectares of wetland habitat, together with predator control, within the Project Site for Australasian Bittern; and
- d. The identification of potential further measures to avoid remediate, or mitigate or compensate adverse effects on Australasian Bittern in the event that it is established that the construction or operation of the Kaiwaikawe Wind Farm has an adverse effect on the population of Australasian Bittern or bittern habitat identified in the Project site (as identified on the map required in accordance with Condition 53)
- e. Any bittern habitat that is removed or becomes unavailable to Australasian Bittern must be replaced with equivalent bittern habitat and must be in place and functional before the removal of any bittern habitat.

- RT agrees that Policy 4.4.1 of the RPS is the appropriate policy for the management plans but that all aspects of the policy should be available for consideration, being avoid, remedy, mitigate. The NPS REG also acknowledges the ability to offset or compensate for residual adverse effects.
- RT considers that the conditions proposed by both parties include compensatory measures, there are other examples where these types of measures have been utilised for threatened and at risk species.
- RT considers that the DOC conditions do currently provide for mitigation or compensation for the loss of Australasian Bittern, and it is unclear what the outcome would be if a collision did occur under the DOC condition and under the idea of no mortality. What happens next?
- SF notes that there are other causes of death to bittern (traffic and starvation), and that controlling predators and enhancing wetlands may make a contribution to bittern survival.
- SF considers that in relation to this wind farm proposal that there are opportunities included in the proposal to enhance habitat and control predators that will be beneficial to bittern.
- RT queried why the 2 ha of wetland habitat creation had been deleted from the conditions (54Cc) by DOC and considers this measure to be compensation for the purpose of section 104(1)(ab) of the RMA and Policy C2 of the NPS REG.

- MB advised that DOC now propose an alternative wording to 'zero net impact'. The revised objective would be that any deaths of bittern is zero mortality as a result of the operation of the wind farm throughout the life of the wind farm.
- The RMA statutory reference for this is Policy 4.4.1 RPS.
- EW in support of the amended wording proposed by MB above advises that one mortality is considered to be 'more than minor' particularly as there is a low confidence that any loss can be made up by mitigation.
- MB considers that offsetting and/or compensation is not appropriate for bittern due to their irreplaceability and vulnerability as cited in the definitions in the RPS (environmental biodiversity compensation (Point 8), biodiversity offsets (Point 9)).
- MB considers that compensation for displacement is appropriate but not for bittern mortality. MB notes a discrepancy in the immediate review conditions 58FA and 58P where compensation is referred to for mortality. MB supports the condition in so far as it relates to other species, but not bittern.

- MB does not necessarily object to this measure, however the scale is too small to be appropriate as compensation for bittern and does not represent a net gain as required under the RPS definition for compensation. EW and RB agree acknowledging that it is a positive outcome for bittern and other birds, however is not enough to make up for any loss of bittern.
- MB considers that the Applicant's condition 54Cc can be considered under section 104(1)(ab) of the RMA.

- DD and US agree that Policy 4.4.1 of the RPS is the appropriate policy.
- DB supports an aim of no mortality, but accepts that this could be difficult.
- DB supports compensation of any displaced birds.
- DB considers that any mortality of bitterns is irreplaceable.

54D. In order to achieve the objectives established in

Monitoring and Management Plan shall, as a minimum, address the following:

 a. Where there is sufficient data from the baseline survey, the assessment methodology to be utilised to validate the modelled estimate of collision risk mortality for Australasian Bittern (which shall also include updating the model with the details of the turbine technology selected for the Kaiwaikawe Wind Farm and the final layout of the wind farm);

For the purpose of Condition 54D(a), the collision risk mortality has been modelled at 1 mortality every 27.8 years assuming a population of 10 birds traversing the Kaiwaikawe Wind Farm once a week for six months, with 20% of traverses at a rotor swept height and at an avoidance rate of 95%.

- The criteria or assessment methodology for determining whether the construction or operation of the Kaiwaikawe Wind Farm has resulted in the displacement of the population of Australasian Bittern;
- The detailed measures proposed, and at what locations within the Project Site, to create or enhance 2 hectares of wetland habitat for Australasian Bittern (including associated predator control measures);
- d. The additional traffic / construction management measure that may need to be implemented along Maitahi Road in order to protect Australasian Bittern in the event the construction of the Kaiwaikawe Wind Farm has an adverse effect on the population of Australasian Bittern utilising the Omamari Station Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map attached as **Appendix X** to these conditions and dated X); and

- 54DF. In order to achieve the objectives established in Condition 54C above, the Australasian Bittern Monitoring and Management Plan shall, as a minimum, address satisfy the following:
 - a. Where there is sufficient data from the baseline-monitoring survey and GPS study Tracking Programme required under Conditions 53, 54AA and 54AAA, thisese data will assessment methodology to be utilised to validate update the modelled estimate of collision risk mortality for Australasian Bittern (which shall also include updating the model with the details of the turbine technology selected for the Kaiwaikawe Wind Farm and the final layout of the wind farm);

te: For the purpose of Condition 54D(a), the collision risk mortality has been modelled at 1 mortality every 27.8 years assuming a population of 10 birds traversing the Kaiwaikawe Wind Farm once a week for six months, with 20% of traverses at a rotor swept height and at an avoidance rate of 95%.

- The criteria or assessment methodology for determining whether the construction or operation of the Kaiwaikawe Wind Farm has resulted in the displacement of the population of Australasian Bittern;
- c.—The detailed measures proposed, and at what locations within the Project Site, to create or enhance 2 hectares of wetland habitat for Australasian Bittern (including associated effective predator control measures);
- c. The detailed measures proposed, and at what locations within the Project Site, to recreate any bittern habitat devalued, removed, or that bitterns are displaced from, at any point during construction or throughout the lifetime of the windfarm.
- d. The additional traffic / construction management measures that may need to be implemented along Maitahi Road in order to protect Australasian Bittern in the event the construction activity of the Kaiwaikawe Wind Farm has an adverse effect on the population of Australasian Bittern utilising the Omamari Station Wetland in the vicinity of Maitahi Road, the Maitahi Wetland (as identified on the map attached as Appendix X to these conditions and dated X); and or bittern habitat identified in the Project site (as per the map produced in accordance with Condition 53AA).

	e. The identification of additional habitat creation /				
	enhancement measures and / or predator control		e. The identification of additional habitat creation /		
	measures, and associated monitoring of such		enhancement measures and / or predator control measures,		
	measures, that may need to be implemented by		and associated monitoring of such measures, that may need		
	the consent holder in the event that the validated		to be implemented by the consent holder in the event of any		
	modelling of collision risk mortality for		that the validated modelling of collision risk mortality for		
	Australasian Bittern is greater than the modelled		Australasian Bittern is greater than the modelled mortality		
	_		specified in Condition 54D(a) and / or there is a trend of		
	mortality specified in Condition 54D(a) and / or		displacement of Australasian Bittern from the Omamari		
	there is a trend of displacement of Australasian		Station Wetland in the vicinity of Maitahi Road and the		
	Bittern from the Omamari Station Wetland in the		Maitahi Wetland (as identified on the map attached as		
	vicinity of Maitahi Road and the Maitahi Wetland		Appendix X to these conditions and dated X) as result of the		
	(as identified on the map attached as Appendix X		operation of the Kaiwaikawe Wind Farm.		
	to these conditions and dated X) as result of the		operation of the Kalwarkawe wind raim.		
	operation of the Kaiwaikawe Wind Farm.	54FF	The first time the Plan is submitted, construction, including		
			establishment works, cannot commence until the Plan has been		
			certified by the Group Manager – Environmental Services,		
			Kaipara District Council in accordance with the process outlined		
			above.		
			above.		
54E.	[this condition is now intentionally blank]	54 E G.	[this condition is now intentionally blank]		
		34 <u>E</u> 0.	[this condition is now intentionally blank]		
Austro	alasian Bittern Baseline Survey Report				
		I		T	
54F.	Following the conclusion of the baseline survey	54 <u>F</u> H.	Following the conclusion of annual monitoring baseline survey,		
	required in accordance with Condition 53, the consent		required in accordance with Condition 53, the consent holder		
	holder shall engage an experienced and appropriately		shall engage an experienced and appropriately qualified person		
	qualified person to prepare a survey report that		to prepare a survey report that presents, summarises and		
	presents, summarises and analyses the data collected		analyses the data collected from the baseline survey against the		
	from the baseline survey against the relevant		relevant objectives of the Australasian Bittern Monitoring and		
	objectives of the Australasian Bittern Monitoring and		Management Plan and the relevant matters set out in Condition		
	Management Plan and the relevant matters set out in		54D.		
	Condition 54D.				
	The baseline survey report shall include an update of		The baseline survey report shall include an update of the		
	the collision risk assessment for Australasian Bittern		collision risk assessment for Australasian Bittern and the collision		
	and the collision risk mortality predictions outlined in		risk mortality predictions outlined in Condition 54D(a).		
	Condition 54D(a).				
	The consent holder shall provide the draft baseline		The consent holder shall provide the draft baseline survey report		
	survey report to the expert panel for review and		to the expert panel for review and comment.		
	comment.		• •		
54G.	The expert panel shall provide its written comments (if	54 G L	The expert panel shall provide its written comments (if any) on		
	any) on the draft baseline survey report to the consent		the draft baseline survey report to the consent holder within 20		
	holder within 20 working days of receipt of the report		working days of receipt of the report from the consent holder.		
	from the consent holder.		manning days or receipt of the report from the consent holder.		
	nom the consent holder.				
E	The consent holder shall provide the heading survey	EALLI	The concept holder shall provide the bessline surrounced		
54H.	The consent holder shall provide the baseline survey) 34 <u>HJ.</u>	The consent holder shall provide the baseline survey report,		
	report, including all written comments provided by the		including all written comments provided by the expert panel and		
	expert panel and the consent holder's response to		the consent holder's response to those comments, to the Group		

	those comments, to the Group Manager – Environmental Services, Kaipara District Council. Upon receiving the baseline survey report, the Group Manager – Environmental Services, Kaipara District Council may seek advice and comment from the expert panel on the report, and then shall determine whether: a. Any additional measures to avoid, remedy or mitigate adverse effects on Australasian Bittern, as identified in the Australasian Bittern Monitoring and Management Plan, are necessary during the construction of the Kaiwaikawe Wind Farm in the	Manager – Environmental Services, Kaipara District Council Upon receiving the baseline survey report, the Group Manager – Environmental Services, Kaipara District Council may see advice and comment from the expert panel on the report, athen shall determine whether: a. Any additional measures to avoid, remedy or mitigate adverse effects on Australasian Bittern, as identified in the Australasian Bittern Monitoring and Management Plan, at necessary during the construction of the Kaiwaikawe Wilford Farm in the vicinity of Maitahi Road; and	vironmental Services, Kaipara District Council. Upon ceiving the baseline survey report, the Group anager – Environmental Services, Kaipara District buncil may seek advice and comment from the expert nel on the report, and then shall determine whether: Any additional measures to avoid, remedy or mitigate adverse effects on Australasian Bittern, as identified in the Australasian Bittern Monitoring and Management Plan, are necessary during the		
	b. Any of the additional habitat creation / enhancement measures or predator control measures identified in Condition 54D(e) as part of the Australasian Bittern Monitoring and Management Plan should be implemented (if at all) in the event that the modelled collision risk mortality for Australasian Bittern is greater than the modelled mortality specified in Condition	b. Any of the additional habitat creation / enhancement measures or predator control measures identified Condition 54D(e) as part of the Australasian Bitter Monitoring and Management Plan should be implement (if at all) in the event of displacement of Australasian Bitter that the modelled collision risk mortality for Australasian Bittern is greater than the modelled mortality specified Condition 54D(a).	Any of the additional habitat creation / enhancement measures or predator control measures identified in Condition 54D(e) as part of the Australasian Bittern Monitoring and Management Plan should be implemented (if at all) in the event that the modelled collision risk mortality for Australasian Bittern is greater than the modelled mortality specified in Condition		
Constr	54D(a). uction and Post-Construction Survey Report		·		
541.	Surveys for the presence of Australasian Bittern within the area around the Omamari Station Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map attached as Appendix X to these conditions and dated X), in accordance with survey methodology outlined in Condition 53, ³ shall be repeated, each spring, throughout the construction of the Kaiwaikawe Wind Farm and for a further three spring season following the commissioning of the final turbine of the Kaiwaikawe Wind Farm.	Surveys for the presence of male booming Australasian Bitter in wetlands envelope the area around the Omamari Static Wetland in the vicinity of Maitahi Road and the Maitahi Wetland (as identified on the map attached as Appendix X to the conditions and dated X, in accordance with survey methodolo outlined in Condition 53,4 shall be repeated, each spring throughout the construction of the Kaiwaikawe Wind Farm a for a further three spring season following the commissioning the final turbine of the Kaiwaikawe Wind Farm.	rveys for the presence of Australasian Bittern within a area around the Omamari Station Wetland in the cinity of Maitahi Road and the Maitahi Wetland (as entified on the map attached as Appendix X to these inditions and dated X), in accordance with survey ethodology outlined in Condition 53,3 shall be inceated, each spring, throughout the construction of the Kaiwaikawe Wind Farm and for a further three tring season following the commissioning of the final		
54J.	An annual monitoring report shall be prepared by an experienced and appropriately qualified person that presents, summarise and analyses the data collected in the preceding year of construction and post-construction monitoring. The consent holder shall submit the annual monitoring report to the Group Manager — Environmental Services, Kaipara District Council within 60 working days of the completion of	An annual monitoring report shall be prepared by experienced and appropriately qualified person that present summarise and analyses the data collected in the preceding year of construction and post-construction monitoring. The consent holder shall submit the annual monitoring report to the Grow Manager — Environmental Services, Kaipara District Count within 60 working days of the completion of each spring survey A copy of the annual monitoring report shall also be provided	esents, summarise and analyses the data collected in e preceding year of construction and post- nstruction monitoring. The consent holder shall bmit the annual monitoring report to the Group anager — Environmental Services, Kaipara District		

And the supplementary survey method outlined in Condition 63 where the necessary approvals / agreements from the Department of Conservation are in place.

And the supplementary survey method outlined in Condition 63 where the necessary approvals / agreements from the Department of Conservation are in place.

54L. The expert panel shall provide its written comments (if

any) on the draft construction and post-construction

	tacimient 1 to 100 or Experts in relation to Aviidan		,
	each spring survey. A copy of the annual monitoring report shall also be provided to the expert panel and the Department of Conservation (Director, Operations,	1	the expert panel and the Department of Conservation (Director Operations, Northern North Island).
	Northern North Island).		
54K.	At the conclusion of the construction and post-	_	Each year aAt the conclusion of the construction and post-
	construction surveying required in accordance with	1	construction surveying required in accordance with Condition
	Condition 54I, the consent holder shall engage an		541 <u>J</u> , the consent holder shall engage an experienced and
	experienced and appropriately qualified person to		appropriately qualified person to prepare a monitoring report
	prepare a monitoring report that:		that:
	a. Presents summarises and analyses the data		2. Procents summarises and analyses the data collected from
	a. Presents, summarises and analyses the data		a. Presents, summarises and analyses the data collected from
	collected from the construction and post-		the construction and post-construction surveys against the
	construction surveys against the objectives of the		objectives of the Australasian Bittern Monitoring and Management Plan and the relevant matters set out in
	Australasian Bittern Monitoring and Management		-
	Plan and the relevant matters set out in Condition 54D;		Condition 54D;
	b. Considers whether any of the additional habitat		b:—Considers whether any of the additional habitat creation /
	creation / enhancement measures or predator		enhancement measures or predator control measures
	control measures identified in the Australasian		identified in the Australasian Bittern Monitoring and
	Bittern Monitoring and Management Plan should		Management Plan should be implemented (if at all) in the
	be implemented (if at all) in the event that it is		event that it is established that the construction or
	established that the construction or operation of		operation of the Kaiwaikawe Wind Farm has had an
	the Kaiwaikawe Wind Farm has had an adverse		adverse displacement effect on the population of
	displacement effect on the population of		Australasian Bittern the Omamari Station Wetland in the
	Australasian Bittern utilising the Omamari Station	1	vicinity of Maitahi Road and the Maitahi Wetland (as
	Wetland in the vicinity of Maitahi Road and the		identified on the map attached as Appendix X to these
	Maitahi Wetland (as identified on the map		conditions and dated X); and
	attached as Appendix X to these conditions and		conditions and dated A), and
	dated X); and		bb. In the event that there are Australasian bittern displaced
	dated XJ, and		from bittern habitat the Consent Holder shall replace that
			habitat using a biodiversity offset in accordance with the
			Government Guidance on Good Practice Biodiversity
			Offsetting. To account for the time lag between bittern being
			displaced from habitat and the gains from the offset
			benefiting bittern the Consent Holder shall contribute \$XX
			to the wetland management programme provided for in
			Condition 62F.
	c. Considers whether any further post-construction		c. Considers whether any further post-construction survey
			effort for Australasian Bittern is necessary (if any), and at
	survey effort for Australasian Bittern is necessary		what frequency / duration.
	(if any), and at what frequency / duration.		
	The consent holder shall provide the draft construction		The consent holder shall provide the draft construction and post-
	The consent holder shall provide the draft construction		construction monitoring report to the expert panel for review and
	and post-construction monitoring report to the expert		comment.
	panel for review and comment.		.

 $54 \underline{\text{M.}}$ The expert panel shall provide its written comments (if any) on

the draft construction and post-construction monitoring report to

	monitoring report to the consent holder within 20 working days of receipt of the report from the consent holder.		
54M.	The consent holder shall provide the construction and	54MN. The consent holder shall provide the construction and post-	
	post-construction monitoring report, including all		
	written comments provided by the expert panel and the		
	consent holder's response to those comments, to the		
	Group Manager – Environmental Services, Kaipara		
	District Council. Upon receiving the construction and		
	post-construction monitoring report, the Group		
	Manager – Environmental Services, Kaipara District		
	Council may seek advice and comment from the expert	and then shall determine whether:	
	panel on the report, and then shall determine whether:		
	a. Any of the additional habitat creation /	a. Any of the additional habitat creation / enhancement	
	enhancement measures or predator control	measures or predator control measures identified in the	
	measures identified in the Australasian Bittern	Australasian Bittern Monitoring and Management Plan will	
	Monitoring and Management Plan should be	should be implemented (if at all) as result of the if	
	implemented (if at all) as result of the construction	construction or operation of the Kaiwaikawe Wind Farm is	
	or operation of the Kaiwaikawe Wind Farm having	found to have having had an adverse displacement effect;	
	had an adverse displacement effect;		
	b. Considers whether any further post-construction		
	survey effort for Australasian Bittern is necessary		
	(if any), and at what frequency / duration; and	b. Considers whether any further post-construction survey	
		effort, aside from what is required in Condition 54AA, for	
		Australasian Bittern is necessary (if any), and at what	
	c. There is a need to serve notice on the consent	frequency / duration <u>and methods</u> ; and	
	holder of its intention to review any of the		
	conditions of this resource consent relating to		
	Australasian Bittern in accordance with Sections		
	128 to 131 of the Resource Management Act 1991.	consent relating to Australasian Bittern in accordance with	
		Sections 128 to 131 of the Resource Management Act 1991.	
Bird I	Nortality Investigations		
55.	In the event that an Australasian Bittern is found injured	55. In the event that an Australasian Bittern is found injured or	
	or deceased within the Project Site Envelope, then the	deceased within the Project Envelope Site, then the consent	
	consent holder shall notify the Group Manager -	holder shall notify the Group Manager – Environmental Services,	
	Environmental Services, Kaipara District Council and	Kaipara District Council and the Department of Conservation	
	the Department of Conservation (Director, Operations,	(Director, Operations, Northern North Island) within 24 hours of	
	Northern North Island) within 24 hours of becoming	becoming aware of the discovery.	
	aware of the discovery.		
	Note: If a bird is injured, advice shall be sought	Note: If a bird is injured, advice shall be sought immediately	
	immediately from the Department of		
	Conservation Dargaville Area Office on 09	Office on 09 439 3450, or if after hours, on the	
	439 3450, or if after hours, on the emergency		
	hotline (0800 DOC HOT or 0800 362 468)	with regard to capture and care of the bird.	
	with regard to capture and care of the bird.		

	ı		
			Wildlife Permits under the Wildlife Act 1953 will be
	Wildlife Permits under the Wildlife Act 1953		required from the Department of Conservation for the
	will be required from the Department of		uplift of any injured or decreased bird for necropsy, or
	Conservation for the uplift of any injured or		otherwise any uplift will need to be undertaken by the
	decreased bird for necropsy, or otherwise any		Department of Conservation.
	uplift will need to be undertaken by the		
	Department of Conservation.		
55A.	The suitably experienced and qualified avian expert	55A.	The suitably experienced and qualified avifauna expert
	responsible for Australasian Bittern monitoring at the		responsible for Australasian Bittern monitoring at the
	Kaiwaikawe Wind Farm shall undertake an investigation		Kaiwaikawe Wind Farm shall undertake an investigation and
	and complete a draft report on the possible cause of		complete a draft report on the possible cause of the injury or
	the injury or mortality of the Australasian Bittern within		mortality of the Australasian Bittern within 10 working days of the
	10 working days of the necropsy report being made		necropsy report being made available to the consent holder and
	available to the consent holder.		the Department of Conservation (Director, Operations, Northern
			North Island).
			
55B.	The consent holder shall convene a meeting with the	55B.	The consent holder shall convene a meeting with the expert
555.	expert panel within 5 working days of their receipt of		panel within 5 working days of their receipt of the draft report on
	the draft report on the possible cause of the injury or		the possible cause of the injury or mortality. The purpose of the
	mortality. The purpose of the meeting shall be to:		meeting shall be to:
	mortality. The purpose of the meeting stidil be to:		meeting shall be to.
	a Poview and discuss the findings of the draft		a Poviow and discuss the findings of the draft investigation
	a. Review and discuss the findings of the draft		a. Review and discuss the findings of the draft investigation
	investigation report;		report;
	h Caraidan ada ii a liini la na a		
	b. Consider whether any additional monitoring is		b. Consider whether any additional monitoring is required to
	required to further consider the potential cause of		further consider the potential cause of injury or mortality;
	injury or mortality; and		and
	c. Consider whether any additional habitat creation /		c. Consider changes to the construction (including traffic
	enhancement measures or predator control		management) methodology, curtailment of the operation of
	measures as identified in the Australasian Bittern		particular turbines, and depending on the stage of
	Monitoring and Management Plan needs to be		construction whether redesign of the turbine layout should
	implemented by the consent holder.		occur, and whether any additional habitat creation /
			enhancement measures or predator control measures as
			identified in the Australasian Bittern Monitoring and
			Management Plan needs to be implemented by the
			consent holder.
55C.	The consent holder shall submit the investigation	55C.	The consent holder shall submit the investigation report,
	report, including all comments received from the expert		including all comments received from the expert panel at the
	panel at the meeting, to the Group Manager –		meeting, to the Group Manager – Environmental Services,
	Environmental Services, Kaipara District Council within		Kaipara District Council within 5 working days of convening the
	5 working days of convening the meeting with the		meeting with the expert panel in accordance with Condition 55B.
	expert panel in accordance with Condition 55B.		. ,
55D.	The Group Manager – Environmental Services, Kaipara	55D	The Group Manager – Environmental Services, Kaipara District
	District Council shall, upon receipt of the bird	000.	Council shall, upon receipt of the bird Australasian bittern
	Australasian Bittern mortality investigation report and		mortality investigation report and as a matter of urgency, but

as a matter of urgency, but subject to any advice and comment from the expert panel, determine in consultation with the consent holder whether:

- a. Consider whether Any additional monitoring is required and at what frequency / duration;
- Any additional habitat creation / enhancement measures or predator control measures, as identified in the Australasian Bitter Monitoring and Management Plan, needs to be implemented by the consent holder; and
- c. There is a need to serve notice on the consent holder of its intention to review any of the conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991.

subject to any advice and comment from the expert panel, determine in consultation with the consent holder whether:

- a. Consider whether any additional monitoring is required and at what frequency / duration;
- Any additional habitat creation / enhancement measures or predator control measures, as identified in the Australasian Bittern Monitoring and Management Plan, needs to be implemented by the consent holder; and
- c. There is a need to serve notice on the consent holder of its intention to review any of the conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991.

etermine in consultation with the consent holder whether:

56. The consent holder may, if it has received the necessary approvals / agreements from the Department of Conservation, undertake radio tracking of Australasian Bittern to supplement the baseline survey, and construction and post-construction surveys, in order to provide additional monitoring data on the movement of Australasian Bittern within the Project Envelope and the height at which they fly.

Supplementary Survey Methods

Wildlife Permits under the Wildlife Act 1953 will be required from the Department of Conservation for radio tracking, unless the consent holder undertakes this monitoring in conjunction with the Department of Conservation.

56. The consent holder, if it has received the necessary approvals / agreements from the Department of Conservation, undertake radio tracking of Australasian Bittern to supplement the baseline survey, and construction and post-construction surveys, in order to provide additional monitoring data on the movement of Australasian Bittern within the Project Envelope and the height at which they fly.

Note: Wildlife Permits under the Wildlife Act 1953 will be required from the Department of Conservation for radio tracking, unless the consent holder undertakes this monitoring in conjunction with the Department of Conservation.

- RT considers that the standard monitoring that is proposed is adequate and that the GPS monitoring is an option available to the consent holder if it chooses to do so and obtains the necessary approval from DOC.
- SF considers that current monitoring relates to potential construction effects on bittern in the Omamari and Waitahi wetlands and is appropriate for that task.
- SF considers the risk of collisions with turbine blades to be low based on the terrain that the birds would be crossing, and our knowledge of large birds moving through these landscapes.
- SF considers that at this site the risk to bittern from traffic is of greater concern than collision with turbine blades. For this reason, SF disagrees with EW that height is such a crucial factor.
- SF noted, by reference to the Applicant's condition 54F, which required the Applicant to use the baseline data to update the collision risk model and that GPS tracking would supplement this as in condition 56. SF continues to support this approach.

Reading condition 56 with DOC conditions 54, 54A and 54B relating to GPS tracking:

- MB agreed that DOC experts are agreeable to reviewing mandatory use of GPS tracking, acknowledging that the consent of other parties are required before an applicant or consent holder can use such methods.
- MB considers it is appropriate to retain the details relating to the use of GPS tracking in the consent e.g. DOC conditions 54, 54A and
- EW and MB consider that if approval is given then GPS tracking would be required.
- EW considers that height data is crucial, and an alternative method would need to be sought that would satisfy that, if GPS tracking was not possible.
- EW supports monitoring for a duration of three years. The monitoring methods being proposed are index methods which means that to show a population change would require multiple years.
- EW supports GPS tracking for a duration of three years because the resources being relied on by bittern in different years are subject to environmental changes. This means that their movements will change and differ across years.

- US and DD agree that the use of GPS tracking should be optional, not mandatory, in the consent conditions.
- DB considers that if a permit can be obtained, GPS tracking is supported for a minimum of one year but preferably for three.

Maita	Maitahi Road Management						
57.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall establish a barrier fence on both sides of Maitahi Road in the vicinity of Omamari Station Wetland that is suitable to minimise the potential crossing of Maitahi Road by Australasian Bittern. The barrier fence shall utilise 150 mm diameter netting and shall be retained until the completion of construction.	57.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall establish a barrier fence on both sides of Maitahi Road in the vicinity of Omamari Station Wetland that is suitable to minimise the potential crossing of Maitahi Road by Australasian Bittern. The barrier fence shall utilise 150 mm diameter netting and shall be retained until the completion of construction.				
57A.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall establish signage adjacent to the Omamari Station Wetland in the vicinity of Maitahi Road to warn construction traffic of the potential for Australasian Bittern to be crossing in this area and that construction traffic is not to exceed a speed limit of 20 km/per hour along the length of road fenced off from the Omamari Station Wetland. The signage shall be retained until the completion of construction of the Kaiwaikawe Wind Farm.	57A.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall establish signage adjacent to the Omamari Station Wetland in the vicinity of Maitahi Road to warn construction traffic of the potential for Australasian Bittern to be crossing in this area and that construction traffic is not to exceed a speed limit of 20 km/per hour along the length of road fenced off from the Omamari Station Wetland. The signage shall be retained until the completion of construction of the Kaiwaikawe Wind Farm.				
58.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall ensure that all staff and contractors are given suitable training as part of site inductions to explain the behaviour of Australasian Bittern, and what to do if a bird is observed, or injured.	58.	Prior to the commencement of construction of the Kaiwaikawe Wind Farm, the consent holder shall ensure that all staff and contractors are given suitable training as part of site inductions to explain the behaviour of Australasian Bittern, and what to do if a bird is observed, or injured.				
	Note: The Department of Conservation (Director, Operations, Northern North Island) shall be immediately notified in the event that an injured or deceased Australasian Bittern is discovered within the area around the Omamari Station Wetland in the vicinity of Maitahi Road.		Note: The Department of Conservation (Director, Operations, Northern North Island) shall be immediately notified in the event that an injured or deceased Australasian Bittern is discovered within the area around the Omamari Station Wetland in the vicinity of Maitahi Road.				
	AND LONG-TAILED BAT COLLISION MONITO and Long-tailed bat Collision Monitoring Plan	RING					
58A. 58B.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the draft Bird Collision Monitoring Plan required in accordance with Conditions 58C and 58D below to the expert panel for review and comment. The expert panel shall provide its written comments (if	58A. 58B.	At least 60 working days prior to the commencement of construction works authorised as part of this resource consent, the consent holder shall submit the draft Bird and Long-tailed Bat Collision Monitoring Plan required in accordance with Conditions 58C, 58ca and 58D, below to the expert panel for review and comment. The expert panel shall provide its written comments (if any) on				
	any) on the draft Bird Collision Monitoring and		the draft Bird and Long-tailed Bat Collision Monitoring and				

				-	
	Management Plan to the consent holder within 20		Management Plan to the consent holder within at least 20 $\underline{40}$		
	working days of receipt of the plan from the consent		working days of receipt of the plan from the consent holder $\underline{\text{prior}}$		
	holder.		$\underline{\text{to the commencement of construction works authorised as part}}$		
			of this resource consent.		
3C.	The consent holder shall submit the Bird Collision	58C.	At least 20 working days prior to the commencement of		
	Monitoring Plan, including all written comments		construction works authorised as part of this resource consent		
	provided by the expert panel and the consent holder's		the The consent holder shall submit the Bird and Long-tailed Bat		
	response to those comments, to the Group Manager –		Collision Monitoring Plan, including all written comments		
	Environmental Services, Kaipara District Council to		provided by the expert panel and the consent holder's response		
	certify that the plan meets the objective in Condition		to those comments, to the Group Manager – Environmental		
	58C(a). The Bird Collision Monitoring Plan shall be		Services, Kaipara District Council to certify that the plan meets		
	jointly prepared by a suitably experienced and qualified		the objective in Condition 58C(a). The Bird $\underline{\text{and Long-tailed Bat}}$		
	avian expert and a suitably experienced and qualified		Collision Monitoring Plan shall be jointly prepared by a suitably		
	bio-statistician, and shall provide for the following		experienced and qualified avianfauna expert, $\underline{\text{bat expert}}$ and $\underline{\text{an}}$		
	objective:		$\underline{\text{independent}} \ \text{suitably experienced and qualified bio-statistician,}$		
			and shall provide for the following objective:		
	a. Measure the rates of bird mortality from collisions	a.	Measure the rates of bird and long-tailed bat mortality from		
	at the Kaiwaikawe Wind Farm.		collisions at the Kaiwaikawe Wind Farm.		
		<u>58CC</u>	The detail for design and implementation of the Bird and Long-		
			$\underline{\text{tailed bat Collision Monitoring Plan established by condition 58C}}$		
			above is set out in a Bird and Long-tailed bat Collision Monitoring		
			Framework attached to these conditions as Appendix XX.		
3D.	In order to achieve the objective established in	58D.	In order to achieve the objective established in Condition 58C		
	Condition 58C above, the Bird Collision Monitoring Plan		above, the Bird and Long-tailed Bat Collision Monitoring Plan		
	shall describe the methods for recording the frequency		shall describe the methods for recording the frequency of		
	of collisions resulting in mortality for all bird species.		collisions resulting in mortality for all bird species <u>and Long-tailed</u>		
	These methods shall define a search area relevant to		bats. These methods shall define a search area relevant to the		
	the height and rotor span of the wind turbines, be		height and rotor span of the turbines, be statistically robust and		
	statistically robust and include, but not be limited to, the		include, but not be limited to, the following:		
	following:				
	a. Calculating the probability and rate of bird carcass		a. Calculating the probability and rate of bird and Long-tailed		
	loss to scavengers, decomposition and other		bat carcass loss to scavengers, decomposition and other		
	causes, taking into account temporal,		causes, taking into account temporal, environmental and		
	environmental and other sources of variation;		other sources of variation;		
	b. Calculating the probability of carcass detection by		b. Calculating the probability of carcass detection by		
	searchers, which may include searching assisted		searchers, which may include searching assisted by		
	by suitably-trained dogs, taking into account		suitably-trained dogs (and for Long-tailed bats will include		
	temporal, environmental, searcher identity and		searching assisted by suitably trained dogs), taking into		
	other sources of variation;		account temporal, environmental, searcher identity and		
	carer sources or variation,		other sources of variation;		
	c. A data collection and analysis regime specifying		c. A data collection and analysis regime specifying the timing,		
	the timing, location and duration of monitoring at		location and duration of monitoring at a statistically derived		

- a statistically derived number of wind turbines and wind monitoring masts. The purpose of the data collection and analysis regime is to ensure that a reliable estimate of bird strike mortality at all wind turbines and wind monitoring masts is obtained;
- d. Methods to account for carcass loss and detection probability taking into account temporal, environmental and other sources of variation when estimating rates of mortality across the Kaiwaikawe Wind Farm;
- e. Methods to accurately record the condition (partial carcass, entire carcass, full or feather spot) and cause of death; and
- f. Methods to record, and electronically store, audit and backup data.
- 58E. In addition to the requirements specified in Condition 58D, the Bird Collision Monitoring Plan shall:

- a. Specify that all carcasses shall be photographed as found, labelled with a unique number, and mapped using GPS location on a detailed map of the search area showing the location of the wind turbines and associated facilities, such as internal access roads and wind monitoring masts; and
- b. Identify additional measures that may be implemented by the consent holder in order to avoid, remedy or mitigate for the potential adverse effects of the Kaiwaikawe Wind Farm on threatened and at-risk bird species in the event that the bird mortality effects for any species is considered to be more than minor.

- number of wind turbines-and wind monitoring masts. The purpose of the data collection and analysis regime is to ensure that a reliable estimate of bird and Long-tailed bat strike mortality through all seasons and environmental conditions at all each wind turbines and wind monitoring masts is obtained;
- Methods to account for carcass loss and detection probability taking into account temporal, environmental and other sources of variation; when estimating rates of mortality across the Kaiwaikawe Wind Farm;
- Methods to accurately record the condition (partial <u>carcass</u>, <u>full entire carcass</u>, or feather spot) and cause of death;
- Methods to record, and electronically store, audit and backup data.
- 58E. In addition to the requirements specified in Condition 58D, the Bird and Long-tailed Bat Collision Monitoring Plan shall:
 - aa. Specify that searches must occur along transects with search coverage recorded by GPS and searcher track maps reported in the monitoring reports required under conditions 58Fc-58Fe.
 - a. Specify that all carcasses shall be photographed as found, labelled with a unique number, and mapped using GPS location on a detailed map of the search area showing the location of the wind turbines and associated facilities, such as internal access roads and wind monitoring masts; and
 - b. Identify additional measures that may to be implemented by the consent holder in order to avoid, remedy or mitigate or and compensate for the potential adverse effects of the Kaiwaikawe Wind Farm on threatened and at-risk bird species in the event that the bird mortality effects for any species listed in Condition 58Fa equals or exceeds the Mitigation Review Threshold for the individual species is considered to be more than minor and
 - c. Specify the methodology that will be utilised to identify applicable turbines for the purpose of Condition 58Nb below.

Bird and Long-tailed Bat Collision Monitoring

58F.	Bird collision monitoring shall commence immediately	1	Bird and long-ta		_	
	following the date any wind turbine first generates		immediately follo			
	electricity and continue for a period of two years (or until		electricity and co			
	an alternative date as determined by the Group		alternative date			
	Manager – Environmental Services, Kaipara District		Environmental Se			
	Council in accordance with Condition X) and at the		with Condition X			
	frequencies specified in the Bird Collison Monitoring		Bird and Long-tai	iled Bat Collison	Monitoring Plan	
	Plan.					
		58FA	Mitigation Review			ew Thresholds
			for each species	shall be as follow	WS:	
			<u>Species</u>	Conservation	<u>Mitigation</u>	<u>Immediate</u>
				<u>Status</u>	(based on a	Review
					<u>5-year</u>	Threshold
					rolling	(based on
					annual mean	actual bird
					<u>of</u> <u>bird</u>	<u>mortality</u>
					mortality	<u>recorded</u>
					<u>adjusted</u> in	<u>over a 12-</u>
					<u>accordance</u>	<u>month</u>
					<u>with</u>	<u>period</u>
					Condition	between 1
					<u>58D)</u>	June and 31
						May)
			Nationally Criti	ical or Nationall	y Endangered S	<u>pecies</u>
			Australasian	Critical	<u>n/a</u>	1
			<u>bittern</u>			
			<u>Long-tailed</u>	Critical	<u>0.5</u>	<u>2</u>
			<u>bat</u>			
			Any other		0.5	2
			nationally			
			<u>critical</u> or		1	
			nationally			
			endangered		1	
			species			
			Nationally Vuln	nerable Species		-
			Lesser Knot	<u>Vulnerable</u>	2	5
					2	
			<u>Banded</u>	<u>Vulnerable</u>	<u></u>	<u>5</u>
			dotterel			_
			Wrybill	<u>Vulnerable</u>	2	<u>5</u>
			Any other		2	<u>5</u>
			nationally			
			vulnerable		1	
			species	l	l	
			At Risk or other	<u>r species</u>	.	
			Red-billed gull	Declining	<u>5</u>	<u>10</u>
			New Zealand	Declining	<u>5</u>	<u>10</u>
			<u>pipit</u>			
		I .			-	-

T		1	ı	1
	<u>Spotless</u>	Declining	<u>5</u>	<u>10</u>
	<u>crake</u>			
	Marsh crake	Declining	<u>5</u>	<u>10</u>
	Fernbird	Declining	<u>5</u>	10
	Banded rail	Declining	5	10
	Eastern bar-		5	10
		Deciming] =	10
	tailed godwit		_	10
	Pied	Declining	<u>5</u>	<u>10</u>
	oystercatcher New Zealand	Recovering	5	<u>10</u>
	dabchick	Recovering	<u> </u>	10
	Pied shag	Recovering	5	10
	Black shag	Naturally	5	10
	DIACK SIIAA	Uncommon	<u> </u>	10
	Δustralian	Naturally	5	<u>10</u>
	Australian		<u>5</u>	10
	coot	Uncommon	_	40
		Naturally	<u>5</u>	<u>10</u>
	shag	<u>Uncommon</u>	<u> </u>	
	Any other At		<u>5</u>	<u>10</u>
	Risk species		ļ	
	<u>Any</u>	Migrant	<u>5</u>	<u>10</u>
	international		1	
	migratory bird			
	that doesn't		1	
	breed in New		1	
	Zealand			
		•	-	-
	Note: the conserv	vation status sne	ecified in Conditi	ion 58FA is the
	stated in the mos			
	New Zealand Bird Bats", New Zeala			
	Conservation, We			
58FB	. In the event that			
	bird species liste			
	amendment to	the New Zeal	and Threat Cl	assification a
	published by the	he Department	of Conservat	ion, then the
	Mitigation Review	w Threshold and	Immediate Rev	view Threshold
	for the new, relev			
58FC	. A draft annual m	onitoring report	shall be jointly	prepared by
	suitable experier	nced and quali	fied avian exp	ert, a suitable
	experienced and			
	independent suit			
	and be provided			
	within 20 working			
	of bird and long			
	monitoring report			
		a proserit, s		

		T	
		collected in the preceding year and report on the operation of	
i		the Kaiwaikawe Wind Farm against the objective of the Bird bird	
		and Long-tailed bat Collision Monitoring Plan and the mortality	
		thresholds for the individual species set out in condition 58Fa.	
		58FD. The consent holder shall submit the annual monitoring report	
		(including all comments from the expert panel and the consent	
		holder's response to those comments) to the Group Manager –	
		Environmental Services, Kaipara District Council within 60	
		working days of the anniversary of the commencement of bird	
		and long-tailed bat collision monitoring. A copy of the annual	
		monitoring report shall also be provided to the Department of	
		Conservation (Director, Operations, Northern North Island).	
		58FE Upon receiving the annual monitoring report the Group Manager	
		 Environmental Services, Kaipara District Council may seek 	
		advice and comment from the expert panel on the data	
		presented in the report and the operation of the Kaiwaikawe	
		Wind Farm against the objective of the Bird and Long-tailed Bat	
		Collision Monitoring Plan and the mortality thresholds for the	
		individual species set out in Condition 58Fa above.	
		Bird and Long-tailed Bat Collision Monitoring Review	
58G.	On the second anniversary of the date any wind turbine		
	first generates electricity the consent holder shall		
	commission a bird collision monitoring review report by	generates electricity the consent holder shall commission a bird	
	a suitably experienced and qualified avian expert and a	<u>and long-tailed bat</u> collision monitoring review report by a <u>n</u>	
	suitably experienced and qualified bio-statistician that:	<u>independent</u> suitably experienced and qualified avian expert, an	
		independent suitably experienced and qualified bat expert, and	
		a suitably experienced and qualified bio-statistician that:	
	a. Reviews the results of the monitoring required in		
	accordance with the Bird Collison Monitoring Plan	a. Reviews the results of the monitoring required in	
	and considers whether mortality effects for any	accordance with the Bird <u>and Long-tailed Bat</u> Collison	
	threatened and at-risk species are more than	Monitoring Plan and considers whether mortality effects for	
	minor;	any threatened and at-risk species are more than minor;	
		any uncatened and across species are more triantiminor,	
	b. Considers whether the monitoring required in	b. Considers whether the monitoring are without and	
	accordance with the Bird Collision Monitoring Plan	b. Considers whether the monitoring required in accordance	
	needs to continue, and if so at what frequency;	with the Bird and Long-tailed bat Collision Monitoring Plan	
	and	needs to continue, and if so at what frequency; and	
	c. Considers whether any additional avoidance,		
	remediation or mitigation measure, as identified in	c. Considers whether any additional avoidance, remediation or	
	the Bird Collision Monitoring Plan, needs to be	mitigation measure, as identified in the Bird and Long-tailed	
	implemented by the consent holder in the event	bat Collision Monitoring Plan, needs to be implemented by	
	that mortality effects for any individual threatened	the consent holder in the event that mortality for any	
	or at-risk species are more than minor.	individual threatened or at-risk species are more than minor	
	•	species listed in Condition 58Fa has equalled or exceed the	
		Mitigation Review mortality threshold for the individual	
		species.	
		1	

- 58H. The consent holder shall submit the draft bird collision monitoring review report to the expert
 - panel for review and comment. The expert panel shall provide its written comments (if any) on the draft bird collision monitoring review report to the consent holder within 20 working days of receipt of the report from the consent holder.
- 58I. The consent holder shall submit the bird collision monitoring review report, including all comments from the expert panel and the consent holder's response to those comments, to the Group Manager Environmental Services, Kaipara District Council within 20 working days of the receipt of written comments from the expert panel. A copy of the bird collision monitoring report shall also be provided at the same time to the Department of Conservation (Director, Operations, Northern North Island).
- 58J. The Group Manager Environmental Services, Kaipara District Council shall review the bird collision monitoring review report, subject to any advice from the expert panel, and determine whether:
 - the Bird Collision Monitoring Plan needs to continue, and if so at what frequency;
 - Any additional avoidance, remediation or mitigation measure, as identified in the Bird Collision Monitoring Plan, needs to be implemented by the consent holder in the event that mortality effects for any individual threatened or at-risk species are more than minor; and
 - c. There is a need to serve notice on the consent holder of its intention to review any of the ecological management / mitigation / compensation conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991 where there is not an agreement between the consent holder and the expert panel as to the need for, or quantum of, any additional ecological management / mitigation / compensation.
- 58K. Where there is agreement between the consent holder and the expert panel over the need for, or quantum of,

- 58H. The consent holder shall submit the draft bird and Long-tailed bat collision monitoring review report to the expert panel for review and comment. The expert panel shall provide its written comments (if any) on the draft bird and Long-tailed bat collision monitoring review report to the consent holder within 20 working days of receipt of the report from the consent holder.
- The consent holder shall submit the bird and Long-tailed bat collision monitoring review report, including all comments from the expert panel and the consent holder's response to those comments, to the Group Manager Environmental Services, Kaipara District Council within 20 working days of the receipt of written comments from the expert panel. A copy of the bird and Long-tailed bat collision monitoring review report shall also be provided at the same time to the Department of Conservation (Director, Operations, Northern North Island).
- 58J. The Group Manager Environmental Services, Kaipara District Council shall review the bird <u>and Long-tailed bat</u> collision monitoring review report, subject to any advice from the expert panel, and determine whether:
 - The monitoring required in accordance with the Bird and Long-tailed Bat Collision Monitoring Plan needs to continue, and if so at what frequency;
 - b. Any additional avoidance, remediation or compensation measure, as identified in the Bird and Long-tailed bat Collision Monitoring Plan, needs to be implemented by the consent holder in the event that mortality effects for any individual threatened or at-risk species are more than minor for any species listed in Condition 58Fa has equalled or exceeded the mortality Threshold for the species; and
 - c. There is a need to serve notice on the consent holder of its intention to review any of the ecological management / mitigation / compensation conditions of this resource consent in accordance with Sections 128 to 131 of the Resource Management Act 1991 where there is not an agreement between the consent holder and the expert panel as to the need for, or quantum of, any additional ecological management / mitigation / compensation.

				1
any additional avoidance, remediation or mitigation	58K.	Where there is agreement between the consent holder and the		
measure, the consent holder shall implement such		expert panel over the need for, or quantum of, any additional		
agreement.		avoidance, remediation or mitigation measure, tThe consent		
		holder shall implement such agreementall recommendations of		
		the expert panel.		
		and on part parts.		
Immediate Review	•			
	58L	In the event that the bird and long-tailed bat collision monitoring		
		required in accordance with the Bird and Long-tailed Bat		
		Collision Monitoring Plan and Condition 58F identifies that the		
		mortality of any individual bird species listed in Condition 58Fa		
		has equalled or exceeded the Immediate Review Threshold for		
		that individual species, then the consent holder shall:		
		// N. W. W. G. M		
		(a) Notify the Group Manager – Environmental Services,		
		Kaipara District Council and the expert panel within 24		
		hours of becoming aware of the exceedance; and		
		(b) Immediately suspend the operation of the applicable		
		wind turbine(s), as identified by the suitably		
		experienced and qualified avian expert responsible for		
		bird collision monitoring at the Kaiwaikawe Wind Farm		
		or the suitably experienced and qualified bat expert		
		responsible for bat collision monitoring at Kaiwaikawe		
		Wind Farm.		
	<u>58M</u>	The suitably experienced and qualified avian or bat expert		
		responsible for bird or bat collision monitoring at the Kaiwaikawe		
		Wind Farm shall undertake an investigation and complete a draft		
		report on the possible cause of the species mortalities within 10		
		working days of the consent holder notifying the Group Manager		
		- Environmental Services, Kaipara District Council. The draft		
		report shall be immediately provided to the expert panel for		
		review and comment.		
	58N	The consent holder shall convene a meeting with the expert		
		panel within five working days of their receipt of the draft report		
		on the possible cause of the species mortalities. The purpose of		
		the meeting shall be to:		
		(a) Review and discuss the findings of the draft species		
		mortality investigation report;		
		(b) Consider whether any additional monitoring is required		
		to further consider the potential cause of species		
		mortality;		
		(c) Consider whether any additional mitigation and / or		
		compensation, needs to be implemented by the		
		consent holder; and		
				·

	(d) Concider whether it is appropriate for the applicable
	(d) Consider whether it is appropriate for the applicable wind turbine(s) suspended in accordance with
	Condition 58N(b) to re-commence operations, and
	whether there is a need for further controls on the
	interim operation of the relevant wind turbines (e.g.
	limiting operations at particular times of the day /
	season or in particular wind / weather conditions).
500	
<u>580</u>	The consent holder shall submit the bird and Long-tailed bat
	mortality investigation report (including all comments from the
	expert panel from the meeting and the consent holder's
	response to those comments) to the Group Manager –
	Environmental Services, Kaipara District Council within five
	working days of convening a meeting with the expert panel in
	accordance with Condition 58P. A copy of the bird or Long tailed
	bat mortality investigation report shall also be provided to the
	Department of Conservation (Director, Operations, Northern
	North Island).
<u>58P</u>	The Group Manager – Environmental Services, Kaipara District
	Council shall, upon receipt of the bird or Long tailed bat mortality
	investigation report and as a matter of urgency, but subject to
	any advice from the expert panel, determine in consultation with
	the consent holder whether:
	(a) It is appropriate for the applicable wind turbine(s)
	suspended in accordance with Condition 58N(b) to re-
	commence operations, and whether there is a need for
	further controls on the interim operation of the relevant
	wind turbines (e.g. limiting operations at particular
	times of the day / season or in particular wind / weather
	conditions);
	(b) <u>Consider whether Any additional monitoring is required</u>
	and at what frequency;
	(c) Any additional mitigation and / or compensation, needs
	to be implemented by the consent holder; and
	(d) There is a need to serve notice on the consent holder
	of its intention to review any of the conditions of this
	resource consent in accordance with Sections 128 to
	131 of the Resource Management Act 1991 where there
	is not an agreement between the consent holder and
	the expert panel as to the matters specified in
	Conditions 58R(a) to c).
<u>58Q</u>	The consent holder shall implement all recommendations of the
	expert panel.

LIZARDS

- 59. At least 40 working days prior to the commencement of vegetation clearance within the areas identified as:
 - a. Scrub Revision in Pine Slash V16 in Map 5 of "Omamari Wind Farm, Northland –Ecological Impact Assessment" dated 12 November 2020;
 - Scrub and Rank Grass Margins of any pine plantation which extends into the Project Envelope; and
 - c. The road reserve / margin adjacent to Maitahi
 Wetland Scientific Reserve

the consent holder shall submit a Lizard Management Plan to the Group Manager - Environmental Services, Kaipara District Council for certification that the plan meets the objective in Condition 59A(d). The Lizard Management Plan shall be prepared by an experienced and appropriately qualified person and shall provide for the following objective:

- d. The avoidance, remediation or mitigation of adverse effects of construction works on any lizard species in the areas identified in Condition 59(a) to (c);
- 59B. In order to achieve the objective established in Condition 59 above, the Lizard Management Plan shall address the following matters:
 - The detailed methodology proposed to survey for any lizard species in the areas identified in Condition 59(a) to (c);
 - The method of recording the number and species of any lizards required to be captured under the Lizard Management Plan; and
 - c. The location where captured lizards will be relocated, including the suitability of habitat in this location.

Note: Wildlife Permits under the Wildlife Act 1953 may be required in order to implement the Lizard Management Plan.

- 59. At least 40 working days prior to the commencement of vegetation clearance within the areas identified as:
 - a. Scrub Revision in Pine Slash V16 in Map 5 of "Omamari Wind Farm, Northland –Ecological Impact Assessment" dated 12 November 2020;
 - Scrub and Rank Grass Margins of any pine plantation which extends into the Project Envelope; and
 - c. The road reserve / margin adjacent to Maitahi Wetland Scientific Reserve

the consent holder shall submit a Lizard Management Plan to the Group Manager - Environmental Services, Kaipara District Council for certification that the plan meets the objective in Condition 59A(d). The Lizard Management Plan shall be prepared by an experienced and appropriately qualified person and shall provide for the following objective:

- The avoidance, remediation or mitigation of adverse effects of construction works on any lizard species in the areas identified in Condition 59(a) to (c);
- 59B. In order to achieve the objective established in Condition 59 above, the Lizard Management Plan shall address the following matters:
 - a. The detailed methodology proposed to survey for any lizard species in the areas identified in Condition 59(a) to (c);
 - The method of recording the number and species of any lizards required to be captured under the Lizard Management Plan; and
 - c. The location where captured lizards will be relocated, including the suitability of habitat in this location.
 - The measures taken, including intensity and duration, to increase the ability of lizards to survive at the relocated site(s)
 - e. <u>Any monitoring, including methods, intensity and duration</u> that will occur at relocated site(s) for lizards.

		1	Note: Wildlife Devenite under the Wildlife Act 1052 may be	Γ	1	T
			Note: Wildlife Permits under the Wildlife Act 1953 may be required in order to implement the Lizard Management Plan.			
GENE	RAL REPORT OF BIRD AND BAT CARCASSES	i				
61A.	The consent holder shall record and report any	61A	The consent holder shall record and report any evidence of bird			
0	evidence of bird and bat strikes. Should a bird or bat	0	and bat strikes. Should a bird or bat species that is nationally			
	species that is nationally critical, nationally endangered,		critical, nationally endangered, nationally vulnerable or in serious			
	nationally vulnerable or in serious decline as listed in		decline as listed in the New Zealand Threat Classification System			
	the New Zealand Threat Classification System		(https://nztcs.org.nz/home) be found injured or dead at the site,			
	(https://nztcs.org.nz/home) be found injured or dead at		the Department of Conservation (Director, Operations, Northern			
	the site, the Department of Conservation (Director,		North Island) is to be notified immediately. The bird shall be			
	Operations, Northern North Island) is to be notified		photographed as found and the location noted on a map of the			
	immediately. The bird shall be photographed as found		site.			
	and the location noted on a map of the site.		Site.			
	·					
STOC	K PONDS					
Stock	Pond <u>drainage</u> , <u>infilling</u> and other modification					
62.	As far as practicable, draining or modifying any stock	62.	As far as practicable, any draining or modifying any stock ponds	RT and SF to review condition 62 with a		
	ponds with vegetated margins (e.g. breeding habitat)		with vegetated margins (e.g. and which provide potential	view to specifying which ponds are relevant.		
	shall occur outside the breeding season of Australasian		breeding habitat) shall occur outside the breeding season of	relevant		
	Bittern, Spotless Crake, Dabchick and Australasian		Australasian Bittern, Spotless Crake, Dabchick and			
	Coot (being 1 September to 28 February).		Australasian Coot (being 1 September to 28 February).			
62A.	If a stock pond with a vegetated margin needs to be	62A.	If a stock pond with a vegetated margin needs to be drained or		- MB confirms her agreement to	
	drained or modified during the period identified in		modified during the period identified in Condition 62		the last sentence of DOCS	
	Condition 62 above, a survey shall be undertaken prior		above, a survey shall be undertaken prior to works by a suitably		proposed condition 62A to be	
	to works by a suitably experienced ornithologist to		experienced ornithologist to determine if a nest or nests		deleted.	
	determine if a nest or nests are present. If a nest of any		are present. If a nest of any of the species identified in Condition			
	of the species identified in Condition 31 is located, that		31 is located, that stock pond shall not be drained or modified			
	stock pond shall not be drained or modified until the		until the chick(s) has left the nest has ceased to be occupied. No			
	chick(s) has left the nest.		indigenous nesting birds shall be harmed in any potential			
			nesting habitat (including scrub reversion in pine slash) as a			
			result of the Kaiwaikawe Wind Farm			
COD	In the great that the blade tip of security that the W	(25	In the ground that the blade time of any united to white a utility.			
62B.	In the event that the blade tip of any wind turbine will	62B.	In the event that the blade tip of any wind turbine will be located			
	be located within 200 metres of Stock Ponds 45, 70 or		within 200 metres of Stock Ponds 45, 70 and or 89 as defined in			
	and 89 as defined in Maps 5 and 6 of "Omamari Wind		Maps 5 and 6 of "Omamari Wind Farm, Northland –Ecological			
	Farm, Northland –Ecological Impact Assessment"		Impact Assessment" dated 12 November 2020, then at least 60			
	dated 12 November 2020, then at least 60 working		working days prior to the commencement of construction works			
	days prior to the commencement of construction works		authorised as part of this resource consent, the consent holder			
	authorised as part of this resource consent, the consent		shall provide the Department of Conservation (Director,			
	holder shall provide the Department of Conservation		Operations, Northern North Island) with the opportunity to review			
	(Director, Operations, Northern North Island) with the		and comment on the draft Ecological Wetland Mitigation and			
	opportunity to review and comment on the draft		Management Plan required in accordance with Condition 62D.			
	Ecological Mitigation and Management Plan required in					
	accordance with Condition 62D.					
62C.	In the event that no written comments are received	620	In the event that no written comments are received from the			
323.	from the Department of Conservation (Director,	5=0.	Department of Conservation (Director, Operations, Northern			
	Operations, Northern North Island) on the draft		North Island) on the draft Ecological Monitoring and			
	operations, informent inform island) on the didit		riorum isiama) on the trait Ecological Monitoring and	1		1

62D.	Ecological Monitoring and Management Plan within 20 working days of it being provided by the consent holder, the consent holder may assume that no written comments will be forthcoming from the Department of Conservation (Director, Operations, Northern North Island). At least 20 working days prior to the commencement of construction works authorised as part of this resource consent shall submit an Ecological Mitigation and Management Plan to the Group Manager -	by the consent holder, the consent holder may assume that no written comments will be forthcoming from the Department of Conservation (Director, Operations, Northern North Island). 62CC. Only Stock Ponds 45, 70 or 89 as referred to in Condition 62B above may be infilled as part of the project. No other stock ponds or wetland areas may be infilled or drained. 62D. At least 20 working days prior to the commencement of construction works authorised as part of this resource consent shall submit an Ecological Wetland Mitigation and Management Plan to the Group Manager - Environmental Services, Kaipara		 MB advised that she is happy for condition 62CC of the DOC set of conditions to be deleted. MB advised that she is happy for the title in conditions 62D and 62E to be 'Ecological Mitigation and Management Plan'. 	
	Environmental Services, Kaipara District Council for certification that the plan meets the objective in Condition 62D(a). The Ecological Mitigation and Management Plan shall be prepared by an experienced and appropriately qualified person and shall provide for the following objective:	in Condition 62D(a). The Ecological Mitigation and Management Plan shall be prepared by an experienced and appropriately			
	a. Create or enhance at least 2.2 ha of wetland habitat for Pied Shag and Black Shag to compensate for the loss of the 1.1 ha of habitat in Stock Ponds 45, 70 and 89 that are to be infilled.	Shag and Black Shag to compensate for the loss of the 1.1	- All experts agree that condition 62Da reads: 'Create or enhance at least 2.2 ha of wetland habitat for Pied Shag, Black Shag and		
62E.	The Ecological Monitoring and Management Plan shall, as a minimum, address the following matters:	62E. The Ecological Wetland Monitoring and Management Plan shall, as a minimum, address the following matters:	Dabchick to compensate for the loss of the 1.1 ha of habitat in Stock Ponds 45, 70 and 89 that are to be infilled'.		
	 a. A clear description of the timing of any restoration works proposed relative to the infilling of the stock ponds; b. The detailed measures proposed to enhance the habitat values of the identified wetland area, including via the implementation of stock fencing; 	proposed relative to the infilling of the stock ponds <u>45, 70</u> and/or 89;	 RT and SF agree to adopt DOCs proposed wording of 52Ea. And that the '45, 70 and/or 89' should read as '45, 70 or 89'. All experts agree that condition 		
	c. A planting plan for the proposed 2.2 ha of wetland habitat, which includes details on the proposed indigenous plant species to be planted and intended planting quantities / densities;	c. A planting plan for the proposed 2.2 ha of wetland habitat, which includes details on the proposed indigenous plant	62Eb reads: 'The detailed measures proposed to create or enhance, and maintain, the wetland habitat, including via the implementation of stock fencing and animal pest control'.		
	d. Requirements for monitoring of, and reporting on, the success of the wetland habitat works (including plant survival rates); and	 d. Requirements for monitoring of, and reporting on, the success of the wetland habitat works (including plant survival rates); and 			
	e. The method and timeframes for the long term protection of the wetland habitat.	The method and timeframes for the long term protection of the wetland habitat.			

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62F The consent holder shall contribute \$XX per annum to a		
wetland management programme administered or endorsed by		
the Department of Conservation (Director, Operations, Northern		
North Island) from the date any wind turbine first generates		
electricity, and until such time as the Kaiwaikawe Wind Farm is		
decommissioned. The purpose of the contribution is to		
compensate for the mortality predictions of the individual		
species identified in Condition 58Fa (with the exception of		
Australasian Bittern). The consent holder shall provide written		
verification of the contribution to Group Manager –		
Environmental Services, Kaipara District Council within 10		
working days of the payment being made to the programme		
annually.		
In addition to Condition 62F, the consent holder shall make a		
one-off contribution of \$XX to the wetland management		
programme administered or endorsed by the Department of		
Conservation (Director, Operations, Northern North Island) from		
the date any wind turbine first generates electricity in order to		
assist with establishment and administration costs for the		
programme. The consent holder shall provide written		
verification of the contribution to the Group Manager –		
Environmental Services, Kaipara District Council within 10		
working days of the payment being made to the programme.		
62H In the event that the wetland management programme administered or endorsed by the Department of Conservation		
ceases the consent holder shall contribute the \$XX per annum		
required in accordance with Condition 62F and the one-off		
contribution of \$XX required in accordance with Condition 62G to any other wetland management programme administered or		
endorsed by the Department of Conservation (Director,		
 Operations, Northern North Island).		