# AT WELLINGTON BEFORE THE ENVIRONMENT COURT

Decision No. [2011] NZEnvC 232

ENV-2009 - WLG - 000060

ENV-2009 - WLG - 000061

ENV-2009 - WLG - 000062

ENV-2009 - WLG - 000063 ENV-2009 - WLG - 000065

IN THE MATTER OF Management Act 1991 Appeals pursuant to s120 of the Resource

BETWEEN MERIDIAN ENERGY LIMITED

AND OHARIU PRESERVATION SOCIETY

AND R P HARLEY

AND A & J TOLO

AND INCORPORATED SOCIETY MAKARA GUARDIANS

Appellants

AND WELLINGTON CITY COUNCIL

First Respondent

AND WELLINGTON REGIONAL COUNCIL

Second Respondent

AND Third Respondent PORIRUA CITY COUNCIL

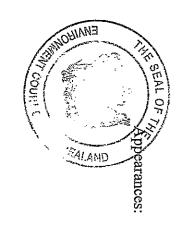
Environment Court Judge B P Dwyer

Court:

Environment Commissioner D J Bunting
Environment Commissioner K A Edmonds
Wellington on 12, 13, 14, 18, 19, 20, 21, 22, 26 October and 23,
24 November 2010

Heard:

A Webb and P Tancock for Ohariu Preservation Society (Appellant/Applicant) A Beatson and B Tree for Meridian Energy Limited



(Appellant)

R Harley for herself (Appellant)

R Harley for Amosa and Janet Tolo (Appellants)

J Jorgensen for Makara Guardians Incorporated (Appellants)

J Bowen for himself (s274 party)

K Bowen for herself (s274 party)

J Easther for himself (s274 party)

S Hawkins for P Hawkins and P Hawkins for himself (s274

party)

W Horrobin for himself (s274 party)

N Beach for Wind Corp Limited (s274 party)

Dr K Mosley for himself (s274 party)

K Anderson and A White (Respondents) J Jennings for himself (s274 party)

### DECISION

## Decision issued: <u>~</u> AUG 2011

turbines G04 and F11 is confirmed. turbines G01,  $\geq$ The appeals by OPS and Makara Guardians are allowed to the extent that G02 and G03 are removed, and the Council's decision deleting

No order as to costs.

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## Introduction

- name for the wind farm was Project Mill Creek (Mill Creek). for various resource consents enabling it to construct, operate and maintain a wind application to Wellington City Council (WCC), Porirua City Council (PCC) and Wellington Regional Council (the Regional Council)) (collectively - the Councils) (together with ancillary activities) at Mill Creek near Wellington. On 12 March 2008, Meridian Energy (Meridian/the Applicant) made Meridian's
- proposal require Regional Council consents. works (primarily roading) are required within PCC's district. Various aspects of the [2] The wind farm itself will be contained within WCC's district. Some ancillary
- <u>3</u>  $\triangleright$ brief description of the Mill Creek proposal (as applied for) is as follows:
- annually; electricity Total capacity of up to 71.3 megawatts (MW), expected to produce ð power the equivalent of 35,000 average households
- on plans to take account of geotechnical and engineering conditions 3m wide) and located within a 100m radius of their identified coating, with associated transformer buildings (2.5m high, 4.5m long and with a rotor diameter of 82.4m, coated with a light grey low reflectivity 31 Siemens 2.3-82 VS wind turbines up to 111.2m in height (to blade tip)
- shown on the plans; Two 70 metre high wind monitoring masts within a 150m radius of that
- 333); east of turbine G01 adjacent to the existing transmission line (Tower switch yard, transformer, lightning masts and communication equipment) located a permanent switchgear building (32m by 12m and 5m high), An electricity substation, an area of 72m by 105m within which would be
- of the transmission line opposite the substation; The erection of a permanent operations building (approximately 15m by 12m with a maximum height of approximately 5.5m) on the western side
- The installation of an internal transmission network;

SEAL OF or a section of the site; section of the overhead HVDC earth electrode

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- road would enter the site from Boom Rock Road and would run through access to each turbine platform; create turbine platforms and access tracks and roads. The main access Extensive earthworks, including cut volumes of up to 814,700m3, to site in a south-westerly direction and then branch off to provide
- equipment; fill, and removal of all the temporary stockpiles of materials and topsoil over tower foundations, re-vegetating exposed areas of cut and adjoining land. Site reinstatement works are also proposed which include required, construction lighting will be supplied via portable lighting rigs. offices and ancillary activities and on-site dry concrete batching. All lighting will be sited to avoid any light spill being directed to any investigations, of, of areas extraction and processing of basecourse aggregate, disturbed by heavy vehicles, backfilling with local construction activities including geotechnical
- yet to be finalised but set back at least 100m from any waterway; and On-site dry concrete batching for approximately 4 months, with location
- to be medium intensity flashing lights, shielded so that they are not directly visible below the horizontal plane of the light. Aviation lighting is proposed to be installed on up to 11 turbines as The lights required by the Civil Aviation Authority are expected flight path approaches for Wellington International
- <u>E</u> end of Ohariu valley Road Rock Road and the widening and upgrading of a 2.3km long section of the northern which would connect to the Site access involves constructing a purpose-built access road through Spicer site via upper Ohariu Valley Road and Boom
- THE SEAL earthworks are required. 2 450m<sup>2</sup> of land within Spicer Landfill (in PCC's district) before connecting to Broken िक्सेट of 2700m³, maximum height of cut and fill areas would be 5.5m and the area The new access road through Spicer Forest incorporates Porirua City. The earthworks would have an approximate cut to waste To create the access road through Spicer approximately

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- 0 Works requiring consents from the Regional Council are: Land use consents for the above activities are required from WCC and PCC.
- construct 19.4km of road network to access the 31 turbine sites; Discharges to land and water from earthworks and soil disturbance to
- disposal sites; Discharges to land and water from earthworks to create and use fili
- Piping a section of both the permanently flowing Ohariu Stream and Mill Creek;
- within the Core Site and Spicer Forest; Piping and reclamation sections of 21 intermittent and ephemeral streams
- (Ohariu Valley and Boom Rock roadworks); existing structures Stream modifications, the placement of new structures and extensions to within the beds of tributaries of the Ohariu Stream
- channels; The permanent diversion of flow through new structures and realigned
- sourcing and crushing of suitable quality aggregates for road surfaces; Discharges to land and water from earthworks associated with the
- Discharges to air from the operation of an onsite concrete batching plant.
- Section 104 provides: applications. challenge to activities fell into the discretionary activity category in all cases. [7]before turning to a consideration of Part II and the purpose of the RMA in s5 The Councils identified that the various consents required for the land use The Court is required, therefore, to consider the relevant matters under that proposition before us and that is how we have assessed the There was no

# 104 Consideration of applications

 $\mathcal{E}$ When considering an application for a resource consent and any submissions received, the consent authority must, subject to Part 2,

have regard to—

OUTT CF NEW TOWN 彩 SEAL ON any relevant provisions ofany actual and potential effects on the environment of allowing the activity; and

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- (i) a national policy statement:
- (ii) a New Zealand coastal policy statement:
- (iii) a regional policy statement or proposed regional policy
- (iv) a plan or proposed plan; and
- 0 any other matter the consent authority considers relevant and reasonably necessary to determine the application
- $\mathcal{O}$ When forming an opinion for the purposes of subsection (1)(a), consent authority may disregard an adverse effect of the activity on the environment if the plan permits an activity with that effect.
- 381 submissions supported the proposal, 417 opposed and five were neutral <u>®</u> Meridian's application to the Councils attracted a total of 803 submissions;
- turbines being described as Turbines G04 and F11. [9] turbines was granted subject to conditions. Councils ರ granted consent to Meridian's two of the 31 wind turbines proposed by Meridian, Consent to the remaining 29 application but in doing
- consents There were six appeals against the Councils' decision in respect of land use
- [11] by Meridian and the Councils prior to the appeal hearing and F11 and against various conditions imposed by the Councils. Meridian appealed against the decline of consent in respect of Turbines agreement as to the appropriate form of conditions was largely reached With some notable GQ 42
- appeal prior to the commencement of the hearing, Ultimately they all sought that the consents be declined. and J Tolo (Mr and Mrs Tolo), Makara Guardians Incorporated Society Guardians) Ohariu Preservation Society Incorporated (OPS), R P Harley (Ms Harley), A and Ngati Wai O Ngati Tangata Whenua (Ngati Ngati Wai withdrew its Wai) filed appeals. (Makara

number of the appellants filed s274 notices in respect of other appeals. Eight other parties filed notices under s274 RMA in respect of the appeals. A

reside in the Ohariu/Makara area organisation of about 175 members being residents of the Makara area over 18 years representative OPS The remaining appellants and s274 parties, by and large, are persons who describes of the itself as being Ohariu Valley community. 53 society of 126 members which Makara Guardians ĸ. an S.

support of their decisions. PCC abided the decision of the Court. WCC and the Regional Council both appeared at the appeal hearing

#### The site

[16]landowners who have agreed to allow Meridian to establish the project on their land. certificates of title which between them are owned by at least six separate individual owned pastoral farmland. The site is incorporated in a number of allotments and and 8 kms north of Wellington City between Ohariu Valley and Wellington's coast. The wind farm will occupy approximately 18 square kilometres of privately Mill Creek is to be located on a site approximately 12 kms south of Porirua

strings along parts of these ridgelines. application as: escarpment. Meridian's intention is to establish 31 wind turbines in 7 groups or of steep hills and ridgelines that trend north-east to south-west inland of the coastal The site is part of the crumpled hill country along the west coast, with a series The strings of turbines are identified in the

- E01, 04-08;
- F03-11, 13-15;
- G01-04;
- H01-02;
- J01-02;
- K01-03; and
- L01-02.

CSUAL OF THE [18] in Ohariu Valley (Takarau Gorge Road/Makara Road intersection to northern The areas of settlement nearest to the site are in Ohariu Valley, the northern Makara Valley and Makara Beach. There are approximately 126 houses

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Makara Beach and at Smiths Bay. at Makara Beach. between Karori and Makara Beach (including Makara Village) and approximately 35 end of Ohariu Valley Road) to the east of the site, approximately 90 on Makara Road There are also a small number of baches at the northern end of

[19] riding schools near the junction of Ohariu Valley, Rifle Range and Takarau Gorge is evident throughout the valley and there are pockets of forestry. There are several lifestyle blocks. community hall and others scattered throughout the valley on small farms and rural Ohariu Valley has a low-key rural character with several houses centred There is a golf course (Ohariu Valley Golf Club). Farming activity on a

[20] Makara Road, along which there are houses on small pastoral farms and rural lifestyle blocks To the south of the site, the southern end of Takarau Gorge Road joins

hill country on the eastern side of the site and Transpower's HVDC1 the site to Boom Rock Road before angling east towards Johnsonville Smiths Bay at the Te Hikowhenua Electrode Station. line crosses the southern end of the site before terminating 500 metres north of [21] Transpower's Bunnythorpe-Wilton 220 kV power transmission line traverses The pylon line runs through ground return

explapartand the wind farms will be seen together from many viewpoints Beach. of Cook Strait. The two wind farms are divided by Makara Road, Makara Stream and contains 62 turbines which stretch along Wellington's south western hills to the edge described is Meridian's Makara wind farm, known as Project West Wind (West [22] Wind decision).2 Wind) which was approved by a decision of this Court on 14 May 2007 (the West A prominent feature of the general area and the existing environment we have At their closest, the turbines of the two wind farms appear to valley catchment leading West Wind is situated to the south of the Mill Creek site and from Makara and Ohariu Valleys out to Makara be about 1km

The High-Voltage Direct Current 2. Mexidian Energy Limited v Wellington City Council W 031/2007 (West Wind)

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## Scope of hearing

had regard to that material in reaching our conclusions. consent and without cross examination, together with agreed statements. witnesses on the acceptability of the cultural, ecological and sedimentation effects of topics prior to the commencement of our hearing. This led to agreement amongst Creek. There was extensive conferencing amongst expert witnesses on a range of The evidence of witnesses on those topics came into the Court by

- [24] The issues which were in dispute before us involved:
- Energy related matters;
- Traffic;
- Noise;
- Public health;
- Natural character of the coastal environment;
- Landscape (natural and rural character);
- Visual amenity; and
- Planning.

proposed wind farm in terms of Part 2 Resource Management Act 1991 (RMA) We consider each of these in turn before undertaking our overall evaluation of the

environment contains West Wind. the environmental bottom line make it more, or less, able to absorb the effects of the proposal without a breach of can be expected to be, with whatever strengths or frailties it may already have, which The starting point for our consideration is the environment as it exists or it the principle of sustainable management.<sup>3</sup> That

permitted baseline). None of the planning witnesses suggested that the Wellington activity on the environment if a district plan permits an activity with that effect (the allowing an activity, s104(2) provides that we may disregard an adverse effect of the When considering the actual and potential effects on the environment of

THE SERV OF THE City Council's District Plan (the District Plan) would allow a development of the



consideration of the effects on the environment of the turbines. nature and scale of a wind turbine. Accordingly, s104(2) is not relevant to our

# Energy related matters

market, project finances and economics, and alternatives [27] energy, how Mill Creek will fit within the context of New Zealand's electricity We consider energy related matters under the general headings of renewable

# [28] Evidence on these matters was received from:

- Mr A Muldoon (Meridian's Wind Energy Development Manager):
- Meridian); <u>\_</u> Truesdale (a specialist energy sector consultant, called
- New Zealand Institute of Economic Research, called by Meridian); and Dr B Layton (at the time of preparing his evidence, a Senior Fellow at the
- Mr B Leyland (an independent energy consultant called by OPS).

evidence of Mr Leyland, Dr Layton and Mr Truesdale. these matters. We briefly summarise the competing positions, largely drawing on the Additionally, Mr John Easther, a Makara resident, made a general submission on

- power for a number of reasons, including: Mr Leyland opposes wind farms as an economically efficient generator of
- be available at any given time; The alleged unreliability of wind energy which cannot be guaranteed to
- The possibility that much of the country's overall renewable (wind and hydro) could be unavailable at the same time;
- increase standby capacity as reliance on wind energy increases; and the event of unavailability of wind energy, together with the need to The need for expensive thermal generation to be available on standby in

FAIL GEAL OF THE The questionable validity of the cost data used by energy companies developing their models for project financial viability. ZEALAND

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- Dr Layton's reasons for supporting Mill Creek included:
- Meridian's claim that the Mill Creek site provided a wind resource of the very highest quality. The acknowledged high quality wind resource. There was no challenge to
- Its proximity to a large centre of demand with attendant low transmission
- energy as a proportion of New Zealand's overall energy generation; Its contribution towards meeting the Government's target for renewable
- would be produced by a thermal plant with the same output; and Its contribution towards the displacement of green house gases which
- project as its electricity must be offered to the market at a set price The fact that Meridian is solely responsible for the financial risk of the (\$0.01/MWh)
- renewable energy.4 1.4% of New Zealand's target for 90% of all electricity generation to be from Mr Truesdale advised that the contribution of Mill Creek would be roughly
- considered and evaluated by the Court as a standalone project competing projects and means of the role of a central electricity planning authority and endeavour to decide between altogether. effects which cannot be valued being either mitigated to acceptable levels or avoided internalised within the design of the project as a cost to Meridian, with any negative Dr Layton contended that the costs of all environmental effects He also contended that resource consent authorities should not assume and operation of the wind generation and that Mill Creek should be farm which can be valued, have
- responded: When tested on the question of alternatives by counsel for OPS, Dr Layton

SEAL OF THE What I'm actually doing is advising the Court I think it's very difficult should they want to take that particular line, I have looked around are there obvious competing alternatives, I haven't seen any, and

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for North-South transmission, there's a whole range of factors that are run marginal cost projects, being closely located near Wellington, that's consistent with my view about this being one of a very low long have expressed the view that this still looks a pretty good project and really quite favourable about this project.<sup>5</sup> the significant advantage that it is this side of the Cook Strait

generation to be available as standby he commented  $^6$ : storage coinciding with little or no wind and the need for additional thermal In response to the concerns raised by Mr Leyland concerning low hydro

percent of all production being wind. The latest year for which data are its share of electricity production was 4.9% available is 2009. In that year wind's share of capacity was 5.2% and and operationally be able to cater for 35 percent of all capacity and 20 Zealand electricity sector, the New Zealand system should technically engineering consultancy firms with significant involvement in the New which reductions in output would be a material issue for the electricity We are a long way from having a level of wind-powered generation at According to a 2005 study by two major New Zealand

a figure of \$1.4m per annum.) Of course there would also be a one off reduction in calculation which put the lost revenue from this decision at around \$1.64m per the capital cost of the wind farm from the removal of the two turbines Councils' decision to decline consent to two turbines, Dr Layton did an off the top In answer to a question from the Court as to the financial consequences of the (If we apply the cost information from Para 67 of his evidence, we come to

made for the project. Even then, Meridian may choose not to proceed as its final exchange rates, material costs and market conditions before a final commitment is sought for Mill Creek to enable Meridian to take advantage of movements in Dr Layton noted that a 7 year period to give effect to any consent has been

Layton, Rebuttal, Para 40

including the cost of capital.8 decision would be contingent on the likely benefits outweighing the likely costs,

- of example to the discussion in Genesis Power Ltd v Franklin District Council9 of wind generation, notwithstanding its acknowledged limitations. We refer by way [37] comprehensively important but because have traversed these matters only briefly, not because they are in earlier decisions of the Court which have identified the benefits in a general sense they have been considered and discussed not
- make only a very limited contribution to meeting New Zealand's energy objectives in Dr Layton's evidence. 10 Meridian acknowledged that Mill Creek of itself would National Policy Statement for Renewable Energy Generation which were discussed [38] The project is, however, in accordance with those policies. Conservation Strategy, the New Zealand Energy Strategy to 2050 and the proposed development of wind energy. These include the New Zealand Energy Efficiency and We note the very clear policy directions at government level supporting the
- Council. 11 courtroom which the will vary from developer to developer. By way of example, we refer to the variables as to the costs and efficiencies of various means of electricity generation. financial viability of any given project will depend a whole range of factors which the viability of this wind farm (and wind farms generally) and the comparisons We record our reservations regarding the arguments advanced each way Court identified in Motorimu Wind Farm Ltd v Palmerston North City Consideration of those matters belongs in the boardroom, not the as to
- Or government climate change policies and commitments, construction cost, generation are concerned, it appears to us that those matters may be affected by Insofar such as demand, availability/reliability of supply, cost of raw as the cost of oil, comparative cost of economics gas, cost of coal, technological of various value of the NZ means of electricity advances, materials,

\*Layton, EfC Paras 69 and 133 9-[12005] NZRMA 541, 556-557 Eff. Paras 42-55 11 W067/2008, Paras 81-82

accept the evidence of the Meridian witnesses in that regard generation involves issues arising under s7(b) RMA, however we do not consider of the economics of or preference for wind farms as opposed to other forms of others, some of which change (literally) overnight. We are aware that consideration the concept energy requirements was challenged in the evidence which we heard. We that wind energy has a significant part to play in meeting

- economy from Mill Creek. These include: [41] For the sake of completeness we note the positive effects ð the local
- Expenditure during the construction and operation stages;
- little or no cost to farming productivity; and Enabling landowners of the site to supplement their farming income
- road due to improved width sightlines and the ability for cars, pedestrians and horses to better use the Improvements to the northern section of Ohariu Valley Road with better

Those unacceptable cost to the local environment. We will address those issues opposed to the project contend that these local benefits come in due at

#### Traffic

- new road through Spicer Forest will be restricted solely for the use of construction from there along a new access track to be built on private farm land. [42]vehicles Porirua, and then along the existing Ohariu Valley Road to Boom Rock Road and turbine components is via a new road to be constructed through Spicer Forest from Meridian's proposed access route for construction plant, labour, materials and Access via the
- narrow winding alignment with very low usage. [43] undertaken as a permitted activity within the existing road reserve Spicer Forest to its intersection with Boom Rock Road along what is Ohariu Valley Road will need to be widened from its existing terminus at All of the required widening can be currently a

OF TH ZEW ZEW 锁es on to the existing road reserve. These extensions have included areas Over recent years, a number of residents have unofficially extended their

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fenced off for gardens and in the case of Mr and Mrs Tolo, as part of a horse riding moving between paddocks. We were told that local residents often ride horses along the road when

- be required to give up their extensions to allow for the road widening right to their extensions on this reserve, not surprisingly they are upset that they will [45] by the road widening. On our site visit we saw for ourselves the road reserve which will be Even though residents acknowledge that they have
- details for relocating fence lines and other facilities to clear the road reserve to be taking a responsible approach in working with affected residents to agree develop a solution to mitigate the Tolos' loss of this land 12. Mr Beatson advised that, irrespective of whether it was legally obliged to Meridian was committed to continuing discussions Meridian appears to us with the Tolos to
- construction workers, with no other construction vehicles to use this road on these and 8:00am, 12:30pm and 1:30pm, and 5:00pm and 6:00pm for the transport of [47] all traffic related matters as recorded in their second expert conferencing agreement Ohariu Valley Road on Saturdays, Sundays and Public Holidays between 7:00am dated 6 October, 2010. This included provision for a set number of vans to use and the WCC (Mr R Galloway and Mr Soon Teck Kong) had reached consensus on Prior to the commencement of the hearing, the traffic experts for Meridian
- hearing. In addition, neither of the Meridian or WCC traffic experts was called to be [48]cross-examined at the hearing. were parties to this second expert conferencing agreement or gave evidence at the Neither Mr R Barraclough, a traffic expert for OPS, nor Mr and Mrs Tolo
- construction traffic to Monday to Friday. The second was for a new condition of consent requiring that the northern and after the consent required to the contract of the consent required to the contract of [49] Harley sought two amendments to the agreed conditions, the first to restrict all onsent requiring that the northern end of Ohariu Valley Road be widened to include In her opening submission on behalf of Mr and Mrs Tolo and herself,

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and planted berm on either side of the road at the option of each landowner. a 6.5 metre sealed carriageway, together with a double fenced 4 metre wide irrigated

- [50] shown in the locations where the 6.5 metre sealed road width cannot be of heavy construction vehicles at all passing areas and widening areas Proposed Condition 59 for Ohariu Valley Road requires: achieved for the duration of construction. Traffic management techniques must be used to ensure safe movements
- farm only and essentially limited to the construction period. his opening submission, Mr Beatson noted, regarding that road 13: drafted except for Condition 57 relating to the Spicer Forest Access Road. In evaluation of the evidence and submissions we accept these conditions to be managed during the construction of the wind farm. Proposed Conditions 39 to 62 specify the way in which construction traffic is development of this road will be limited to use associated with the wind This will be a private road and no through access will be permitted from construction vehicles. The consent sought for use From our overall as
- [52] track to ensure that there is no direct public access between Broken Compliance Monitoring Officer at each end of the Spicer Forest access The Consent Holder must install barricades to the satisfaction Condition 57 states that: Hill Road and Ohariu Valley Road over the access track during and

after its construction.

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ENAMED THE STATE OF THE STATE O Beatson, Opening Submission, Para 371

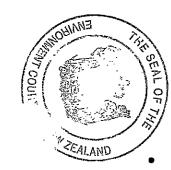
the matter was dealt with at the first instance hearing

- as soon as possible farm in the shortest possible time and allow the return of the road to normal rural use of time. This gives Meridian the opportunity to complete the construction of the Public Holidays as proposed in Condition 51 during the short, well defined periods [54] for the transport of construction workers only, on Saturdays, Sundays and We agree that it is reasonable to allow the restricted use of Ohariu
- changed in the reference in Condition 62 (r). [55] to throughout the hearing as Condition 70. This number will need to be note that Condition 51 for weekend and public holiday access
- horse Harley, even if there is room for these (which seems doubtful). required to provide for double fenced 4 metre wide berms as requested by Ms (and We acknowledge that construction traffic will restrict the use of this road pedestrian) traffic but we do not consider that Meridian should be
- Statement of the Traffic Engineers that road safety will be adequately addressed existed, however unlikely this may have seemed. a number of residents to give up the use of land they currently enjoy on the road [57] borrowed (we assume at no cost) and its possible need for roading purposes always reserve. While we have some sympathy for their plight, this land was only ever being We also acknowledge that the need to widen Ohariu Valley Road will require We are satisfied from the Joint

#### Noise

Experts

- [58] Expert evidence on noise was provided by:
- P Botha, employed by Meridian as ಬ Wind Technical Strategy
- Dr S revision committee, called by Meridian; a specialist acoustic engineer and chair  $^{\mathrm{of}}$ the NZS6808
- called by Meridian Mr M Hayes, a director of a specialist UK firm of acoustic consultants,



- Mr N Lloyd, a specialist acoustic consultant, called by the Wellington City Council;
- Mr M Council, and a member of the NZS6808 revision committee; and Borich, Manager, Compliance and Advice Wellington
- Dr J Trevathan, a specialist acoustic engineer called by OPS
- Nonsense on Stilts. most reluctant witness, he did not participate in any of the expert conferencing, and behalf of Makara Guardians. University (an acknowledged expert on noise matters) was subpoenaed to appear on evidence was restricted to production of a paper which he had authored titled In addition to the above witnesses, Professor (and Dr) P Dickinson of Massey It would be fair to say that Professor Dickinson was a
- his evidence separately. decision, we are referring to the experts other than Professor Dickinson. We address Where we refer to all of the experts or the experts in this section of our
- Creek. 14 applicable in one specific area around the wind farm. We will address that in due matter of residual disagreement all of the experts agreed on ...the fundamental noise statement was of particular significance because it established that except for one second was dated 19 October 2010 (the second joint statement). The second joint meetings. The experts filed two joint statements in these proceedings after caucus The matter of residual disagreement related to a wind speed threshold The first was dated 6 October 2010 (the first joint statement) and the measurement and management methods appropriate for Project Mill
- SEAL remedying or mitigating adverse noise effects, except for the matter of residual  $0^F T_{\rm M}$  remedying or mitigating adverse noise effects, except for the matter of residual of  $0^F T_{\rm M}$  remains a superscript of the matter of residual of the matter of the matter of residual of the matter of residual of the matter of the matter of residual of the matter of the m [62] conditions adequately managed the noise effects of Mill Creek in terms of avoiding, Attachment A Ħ was our of the second joint statement was a set of agreed noise understanding that all of, the experts agreed that

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a 9, Second Joint Statement.

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- following topics: Consideration of noise issues in the proceedings requires us to address the
- District Plan permitted activity noise limits and other provisions;
- New Zealand Standards, particularly the recent issue of NZS6808:2010 Wind Farm Noise;
- Construction Noise;
- Non turbine operational noise;
- High amenity noise limits;
- Professor Dickinson's evidence;
- The West Wind experience; and
- Public health issues.
- be somewhat more truncated than might have otherwise been the case We observe that due to the agreed position of the experts our discussion will

District Plan and New Zealand Standards Noise Limits

Construction and Traffic Noise

- provided for in the District Plan and NZS measured and assessed in accordance with NZS 6801:1991 Measurement of Sound 6802:1991 Assessment of General Provisions of the District Plan specify that noise levels should be Environmental Sound except as expressly
- that vehicles driven on a road (within the meaning of s2(1) of the Transport Act recommendations of NZS 6803P:1984.15 1962) are not appropriately controlled using the NZS 6802 assessment This same section of the District Plan notes that noise from construction on or on any road shall comply with, and be measured and assessed using, the In addition, the General Provisions

## Turbine Noise

0 noise emission levels resulting from noise associated with (among other things) [67] THE Under Rural Area Rule 15.1.1.1.1 of the District Plan, the permitted activity

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SHOWN SHOWN 15. This Standard has now been superseded by NZS 6803:1999 Acoustics - Construction Noise. The RMA provides that the Schedule 1 process would need to be followed to replace the incorporation by reference of the old standard with the new standard — Clauses 31, 33 Schedule 1.

power generation when measured at or within any receiving site boundary are follows:

7.00am to 7.00pm 55dBA (L10)

7.00pm to 7.00am 45 dBA (L10); and

7.00pm to 7.00am 75 dBA (Lmax)

or when measured at or within any conceptual boundary:

Monday to Saturday 7am to 8pm 45dBA (L10)

All Days 8pm to 7am 60 dBA (Lmax)

At all other times 35 dBA (L10)

site boundary is closer to the building or activity, the conceptual boundary definition from the wall of any building or from any land directly occupied by the activity. If the does not apply.) $^{16}$ (Conceptual boundary is defined in the District Plan as meaning... a line 20 metres

# New Zealand Standards

2010) NZS6808:2010 - Acoustics - Wind Farm Noise replacing NZS6808:1998 findings on noise. Since that decision there has been a new Standard issued (March developed17. The Commissioners made reference to this standard in reaching their apply to normal noise standards and that this was why NZS 6808:1998 Acoustics a special case in that these operate in wind conditions above the limits which would The Assessment and Measurement of Sound from Wind Turbine Generators was common ground among the experts that setting wind turbine noise limits represented In their decision, the Councils' Hearing Commissioners noted that it

do not refer to either NZS 6808:1998 or to NZS 6808:2010. 25 and 26. Sections 25 and 26 (to which we are to have regard under s88A(2) RMA) following the first instance decision and is now part of the District Plan as Sections WCC Plan Change 32, Renewable Energy became operative in July 2009

stal of the lander s104(1)(a) RMA or as any other matter under s104(1)(c), although we are not [70] turbines noise issues, However, NZS 6808:2010 is particularly relevant to our consideration of either to inform our consideration of potential noise

Rule 10 Definitions First Instance Decision Para 531

consent or the appropriate conditions to apply. bound by the provisions of a New Zealand Standard in determining whether to grant

[71] Council will have regard to in determining whether or not to For completeness, we note that Rule 26.3.1 of the District Plan provides that (among other assessment matters): grant consent to any wind farm proposal, the

26.3.1.1 The actual or potential noise effects of the proposal.

We are required to do that anyway under s104(1)(a)

- permitted activity standards in the District Plan and both the old and new NZS 6808 for wind turbine noise. We comment on two relevant matters concerning the differences between the
- District Plan using the same measurement system.<sup>20</sup> under the Standard is 10 dB more than the permitted activity noise standard under the comparing the noise limits between the District Plan and NZS 6808:1998, 40 dBA dB lower for wind farm noise. From this, he concludes that a turbine which generates a sound level of 35 District Plan are expressed as  $L_{10}$  and that NZS6808:1998 states that  $L_{95}$  is typically 5 Firstly, Mr Lloyd notes 18 dBL<sub>95</sub> would have an L<sub>10</sub> value of 40 dB.<sup>19</sup> Accordingly, if that the General Rural area noise limits
- activity standard, breach of which triggers a resource consent application in which consideration of noise effects is required The District Plan provision to which Mr Lloyd was referring is a permitted
- provision versions of the Standard affecting this proposal is that the 2010 version has a new Acoustics – [75]  $\Delta$ s for a more restrictive noise level to be imposed in High Amenity Areas ₩e Wind Farm Noise in March 2010. The key difference between the two have said NZS6808:1998 was superseded by NZS6808:2010

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TO TO THE PARTY OF The sound level which is equalled or exceeded for 95% of the total measurement time. The sound level which is equalled or exceeded for 10% of the total measurement time.

20 NOE Pages 737,738 Lloýd, 连C Para 28

Amenity Areas. Standard 5.3.1 relevantly provides: Standard contemplates that high amenity noise limits might apply to High

promotes a higher degree of protection of amenity related to the sound environment of a particular area... high amenity noise limit should be considered where Q plan

than the alternative notation of dBA. We will also adopt the same notation The new Standard also uses the notation of  $dB L_A$  for A frequency weightings rather

this decision we will refer to this as the high amenity noise limit.) during evening and night-time should not exceed the background sound level by the Standard required that wind farm noise level received by Mill Creek's neighbours Mill Creek) is a High Amenity Area as defined in NZS6808:2010. They agreed that other Areas (zones) contained in the District Plan, so that the Rural Area (including protection of sound amenity in the Rural Area of Wellington City as compared to All the noise experts agreed that the District Plan promotes a higher degree Ś or exceed 35 dB  $L_{A90}$ , whichever is the greater. (In the balance of

disagreement between the noise experts limit and we accept that it is the appropriate noise limit which ought to apply to Mill The experts agreed that Mill Creek could comply with the high amenity noise We will however return to this issue when we discuss the area of residual

construction, and turbine operation In the light of those findings, we now consider the noise effects of traffic,

# Construction Noise

construction equipment and [79] materials to the wind farm site During the construction of the wind farm, noise will be generated by on site by vehicles transporting workers, equipment and

TO THE TOO THE GEAL OF THE 180. cordance with NZS6803:1999 Acoustics - Construction Noise (NZS6803) with the Juijes dule of the activities which can be expected to occur during construction. Condition 11 of the proposed Resource Consent Conditions includes that noise measurements, assessments and controls be undertaken Ħ

term duration) noise limits being within those set out in Table 2 of this Standard (for works of long

- prepared in accordance with the relevant provisions of NZS6803 [81]Management Plan Conditions and a Decommissioning Noise Management Plan, both 12 and 13 require preparation of Construction to be Noise
- the resulting noise levels predicted to be well below the NZS6803 noise limits.<sup>21</sup> in excess of 500 metres from the nearest non wind farm residential dwellings, Mr Lloyd stated that construction works will take place at locations generally
- in night-time sleep disturbance for residents who live along this road. Likewise he was satisfied that the predicted day time noise levels from construction traffic will be Resource Consent Condition 51) will ensure that construction traffic does not result restriction for construction vehicles on Ohariu Valley Road (23 November 2010 within acceptable levels Ħ was also Mr Lloyd's view that a proposed 7am to 7pm weekdays
- and construction noise are appropriate for the project proposed conditions. Accordingly, we accept that the proposed conditions for traffic traffic and the construction of the wind farm are adequately controlled by the or traffic noise. From this, we infer that the experts agree that noise effects from [84] The joint statements from the noise experts make no reference to construction

## Operational Noise

controlled by the proposed condition. agree that the non turbine operational noise effects of the wind farm are adequately turbine related operational noise. Again, we infer that indicates that the noise experts [85] non turbine operational noise. Condition 16 of the proposed Resource Consent Conditions sets limits The joint statements contained no reference Accordingly, we accept that the proposed

TLloyd, EIC, Para 47

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ondition is appropriate for the project.

# High Amenity noise limit

operational noise of turbines should contain the following provisions: properties<sup>22</sup>. The experts had agreed that the conditions of consent applicable to the be the trigger for the application of the high amenity noise limit for certain specified identified in their second joint statement, as to a wind speed threshold which was to [<u>98</u> We have referred to the residual disagreement between the noise experts,

- 8 During daytime or at any time when the wind speed is greater than provided that the noise limit in (c) shall apply in the circumstances 6 m/s (metres per second), the noise limit shall be 40 dB<sub>LA90(10min)</sub>,
- 6) During night- time at any wind speed 6 m/s and lower, the noise shall apply in the circumstances stated; limit shall be 35  $dB_{LA90/10 min}$ , provided that the noise limit in (c)
- c) Not relevant;
- d) Not relevant
- additional condition added in the following terms: Dr Trevathan and Messrs Borich and Lloyd proposed that there ought be an
- 6 For assessment positions shown on Figure N1 the wind speed of 6 m/s in (a) and (b) above shall be 10 m/s
- applicable was when wind farm wind speeds were 10 m/s, as opposed to 6 m/s which properties, the threshold at which the high amenity noise limit would become the wind farm should be subject to a higher level of noise protection so that, for those would be the threshold for all remaining properties receiving wind farm noise What the witnesses were proposing was that a small cluster of properties near
- are situated on Takarau Gorge Road between numbers 182 and 252. properties in close proximity to the wind farm's eastern boundary. These properties Takarau Gorge Road is the home of Mr John Third who was a participant in these The small cluster of properties to which we have referred is a group of nine Number 252

This proceedings. For the sake of convenience we will refer to this cluster as the Third

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Para 61 above

- NZS 6808:2010, which provide (inter alia): The significance of the 6 m/s or 10 m/s is found in paras 5.3.2 and C5.3.2 of
- farm is operating be maintained, under wind conditions when low background sound A high amenity noise limit should only be applied, and can only common at a noise sensitive location, while the wind

noise sensitive locations. coincide with the periods of lowest background sound levels at the Wind farm wind speeds of 6 m/s and lower would

disagree and propose that 6m/s as recommended in the Standard should apply over low to warrant a wind speed threshold of 10m/s. northerly wind conditions measured at properties in the Third area are sufficiently the whole site. and Mr Lloyd contended that background noise levels of 25 dB L<sub>90 (10 min)</sub> in sensitive locations around the wind farm site. However, Dr Trevathan, Mr Borich limit identified in NZS 6808:2010 is appropriate for the majority of the noise The noise experts agreed that the 6m/s threshold for the high amenity noise Mr Botha, Dr Chiles and Mr Hayes

than 6 m/s). Para 11 of the joint statement records: a threshold of 6m/s (due to the fact that the wind speeds of 10 m/s are more common would mean that the high amenity noise limit would apply for more of the time than disagreement as to which threshold speed should apply, is that a threshold of 10m/s recommendation only. They also agree that the only practical consequence of their [92] All of the experts agree that the Standard does not provide an objective determining alternative thresholds, with the 6m/s

We agree that as the wind farm sound levels are generally predicted to 35 dB at all locations at all times, whether the threshold for

The is not expected to have a practical effect for Project Mill Creek. The would be the same. actual wind farm sound levels that will be experienced by residents the High Amenity Noise Limit is set as a wind speed of 6 m/s or 10 m/s

- [93]the following: We consider that the key factors in determining the threshold wind speed are
- so low that the area requires a higher standard of noise protection than is to apply to other rural properties in the vicinity; Third property could be considered as being typical of a rural area, or is it Whether a background noise level of 25 dB L<sub>90 (10 min)</sub> measured
- parts of the wind farm; The merit or otherwise of having different threshold speeds for different
- The effects on noise levels from each of the two wind speeds; and
- recommended in the new Standard desirability ofintroducing ы different wind speed from that
- there were low background sound levels of 25 dBA or less. survey results prepared by Mr Hayes. This focussed on the additional down time known as the Bruce property) and the resulting regression analysis plots of the background noise surveys undertaken at the Third property (and a nearby property would accordingly have to be turned off for longer periods to achieve the high which would result if the wind speed threshold was set at the higher 10 m/s where 10 m/s then the high amenity noise limit would apply for more of the time. Turbines between a wind speed of 6 m/s and one of 10 m/s was that if the threshold was set at We were told a number of times by the experts that the only difference noise limit. There was extensive cross examination of the experts on
- SEMD Beatson, he agreed that the Standard did not provide for the high amenity noise [95] background sound levels are 25 dBA<sup>23</sup> or less although in answer to a question from limit to be Mr Lloyd considered that the high amenity noise limit should apply when the imposed at those background levels<sup>24</sup>

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Lloyd, EIC, Para 100
 NOE, Page 979

Lloyd<sup>25</sup>: [96] is not an unusually quiet night time noise level in rural areas. Mr Beatson asked Mr What emerged from questioning of the various noise witnesses is that 25 dBA

for a rural area? Wellington, including Dr Trevathan, that 25 dBA is not unusually quiet Do you agree with the other experts who have experience outside

with your proposition that it's not unusual, yes Mr Lloyd concluded his response by saying ... you get a high variation but I agree

additional layer of protection. The evidence did not establish that proposition background noise level of 25 dBA, is so comparatively quiet as noise limit is applicable in this area, it is applicable. [97] revolves around the proposition that the The disagreement between the experts is not about whether a high amenity Third area, The disagreement, in essence, with a measured night to require

about monitoring, compliance and enforcement difficulties with West Wind monitoring and compliance process for West Wind. We heard detailed evidence different wind directions at various receivers. secondary noise limits.<sup>26</sup> The West Wind conditions apply different wind speeds for question from Mr Beatson concerning the West Wind noise conditions for triggering [86]different parts In considering the merits of having different threshold speeds applicable to of the wind farm, we refer to the response from Mr Botha to a This has resulted in a complex noise

having a single wind speed for triggering the high amenity noise limit requirement and that this should apply to all of a wind farm. 27 assessment. which was simple to apply and which would allow straightforward monitoring and develop an approach for determining the threshold limit for high amenity areas [99] the NZS6808 Committee of the Standards Council (the Committee) had sought to Mr Botha commented that it was with the knowledge of these difficulties that The Committee had concluded that this would be best achieved by

NOE Page 790.

not accept that there is anything sufficiently special about the noise environment in application of an alternative wind speed threshold to 6m/s in any given case.<sup>28</sup> We do applicable in different areas the Third area which justifies such a departure in this case, particularly in light of the of the difficulties experienced at West Wind. The Standard recognises that there may [00]enforcement difficulties which potentially arise from having different thresholds We accept the logic of that proposition as a general rule, particularly in light meteorological, topographical and, acoustical grounds which justify

## [101]In summary, we find that:

- at both 6m/s and 10m/s wind speeds; Actual wind farm noise levels received at the Third area will be the same
- for the high amenity noise limit to apply compared with a 6m/s wind A 10 m/s wind speed threshold would result in only a slightly longer time
- atypical of many rural areas throughout New Zealand; and The measured background noise level of 25 dBA in the Third area is not
- and allows straightforward monitoring, assessment and subsequent speed of response if any compliance issues should arise. threshold across the all of the wind farm as this is simple to understand authority and the local community having a consistent wind speed There is considerable merit in the wind farm operator, the consent

he dramted triggering the high amenity noise limit. having a single wind speed threshold of 6 m/s applying across all of the site for localised benefits from this would be more than offset by the much wider benefit of wind speed threshold of 10 m/s for the Third area would be minimal and that any [102] Overall, we have concluded that any extra high amenity time resulting from a As a consequence, proposed Condition 17(e)

Enr. COL<sup>28</sup> Para 5.3.2 NZS 6808:2010.

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improvement on the original, does not support the Standard statement in the Acknowledgements at the start of the published Standard that... the representative of Massey University on the Committee. [103] Turning briefly to the evidence of Professor Dickinson, we note that he was of Massey University, while recognizing the revised Standard is an We also note the

subpoena) of his paper Nonsense on Stilts which contained many criticisms of NZS 6808:2010 evidence or legal submissions for this hearing nor had he had any contact with any of on high amenity noise. He also advised that he had not read any of the other noise support a number of the provisions of the Standard, and in particular those provisions other During cross examination, Professor Dickinson advised that he did not noise experts<sup>29</sup>. His evidence was restricted to the production (under

Standard<sup>31</sup>. than linking the limit to the background noise level as has been adopted in the the Committee had set a fixed limit of 35 dBA as the high amenity noise limit rather response to a question from the Court, he advised that he would have been happy if be an attenuation of 6 to 8 dBA<sup>30</sup> in noise received inside as opposed to outside. that with windows of residences receiving noise from Mill Creek open, there would [105] In response to a question from Mr Beatson, Professor Dickinson considered

[106] be less than the recommended WHO guideline of 30 dBA maximum internal noise level (after allowing for attenuation of 6-8dBA) would still notional boundaries of receiving residences predicted to be no more than 35 dBA, the Even if we accept Professor Dickinson's proposition, with noise levels at the

SEAL OF THE the agreed position of the participants as to the appropriate methods for prediction, from 11 nominating organisations with a range of interests in wind energy and wind farm noise. NZS 6808:2010 is the outcome of a process which involved representatives We have no doubt that compromises were made by participants in the With the exception of Professor Dickinson, the Standard represents

NOE, Page 1212 31 NOE, Page 1231

sensitive locations that existed before a wind farm. Standard states that ... the provisions of this Standard are intended to protect noise measurement and assessment of received sound from wind farms. Para 1.3

appropriate conditions to apply when granting consent to this or any other wind farm McIntyre v Christchurch City Council<sup>32</sup>: (or whether to grant consent at all). [108] The Court is not bound by the provisions of the Standard in determining the As was said by the Planning Tribunal in

parties must be free to assert that significant adverse effects on the worthy of serious consideration. significant environmental harm despite compliance with a relevant New environment would occur despite compliance with the standard Because New Zealand standards are not given particular status by law, deciding whether resource consent should be granted or refused. adverse effects on the environment that should be taken into account in accept that compliance with a New Zealand standard would avoid However parties to resource consent proceedings are not bound to Zealand standard would usually need to be supported by expert opinion to be opposition to a resource consent application based on an assertion of

radiation. with the requirements of NZS6609:1990 as to the discharge of radio frequency that is our obligation in this instance would be adverse effects on the environment from operation of the tower. We accept was still required to consider all of the evidence to determine whether or not there McIntyrewas a The Tribunal held in McIntyre that notwithstanding such compliance it case relating to installation of a cell phone tower which complied

SEAL OF THE at the Third area. NZS 6808:2010 was issued by the Standards Council on 1 March disagreement as to the threshold speed for application of the high amenity noise limit Standard provided an adequate level of protection for residents, save for their [109] In this case, all of the experts (except for Professor Dickinson) agreed that the 2010 so at the time of our hearing had been in effect for around seven months. ents the consensus of the Committee, with one notable exception. Under those

32 [1996] NZRMA 289

Creek circumstances we accept that it sets the appropriate noise standards to apply to Mill

address and eliminate these sounds. commissioning of West Wind, and the time subsequently taken by Meridian to residents focussed on noise problems which had arisen on commissioning of West Wind and concerns that similar issues could arise at Mill Creek. OPS also raised [110] Many of the submissions made both by Makara Guardians and Makara special audible These concerns had their genesis in the low frequency tonality sounds characteristics (SACs)) which had occurred

evidence of ongoing sleep disturbance and health problems still being experienced by (to varying degrees) at least some residents in the Makara community. We turbines and a heightened sensitivity to wind farm noise with this continuing to affect element of cynicism about claims made by Meridian as to the noise effects of wind [1111]Makara residents from West Wind. The response of both Meridian and the WCC to numerous noise complaints as unsatisfactory by a number of the witnesses we heard. There is an

that appropriate conditions to achieve that are imposed that if Mill Creek proceeds, it avoids the problems which occurred at West Wind and arising out of the commissioning of West Wind. However, we do need to be satisfied It is neither possible, nor necessary, for us to address all of the complaints

ascertained that the turbine noise did have SACs with consequent effects on those not prove to be the case. After the wind farm was commissioned and operating it was receiving the noise from the manufacturer [113] It is our understanding that the turbines used for West Wind were purchased on the basis that they were SAC free. Unfortunately this did

OUT COU OF THE XPERTS [114] measurement and assessment of the noise from three turbines (to be selected with the greeinent of the Compliance Monitoring Officer) and providing that turbines G01 to 1, F13 and F15 are not to be operated until it has been confirmed that the In order to avoid a similar situation arising at Mill Creek, all of the have agreed ರ imposition of a condition (Condition 20) requiring

F15 have been chosen as they are closest to residences potentially affected by wind three measured turbines do not exhibit SACs. Turbines G01 to G04, F11, F13 and

such a major concern for so many residents. The precise wording of the condition may need to be revisited in light of subsequent findings in this decision early identification of the SAC problem and allowed its elimination before it became an equivalent condition had been in place at West Wind, this should have led to the We concur with the imposition of Condition 20 should consent be granted. If

report was prepared by a Meridian employee. carried through to Schedule 1 Condition 19 qualified independent person agreed to by the WCC (our emphasis). This has been compliance report seeks agreed that a wind farm noise compliance report is to be prepared by a suitable In Para 10 (c) of the October 19, 2010 Joint Statement, the noise experts 2010). The engagement of an independent person to undertake ರ remove any concerns of bias of the proposed conditions which might arise if the (23)

commencement until five years after the completion,.... with respect to noise...: review any or all conditions of the consent on an annual basis from the date of the Review Condition 89 authorises the WCC Compliance Monitoring Officer to

- review the noise requirements for the following reasons.
- detailed in the report required by condition 26, and At any time subsequent to the commencement of Project Mill Creek should the noise emissions differ significantly from those
- operation of the wind turbines. Ö deal with audible from wind farm sound, including sound with any non compliance with agreed characteristic which may arise from standards

of following changes to the conditions.) (We suspect that the reference to condition 26 should in fact be to condition 19

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responses to complaints about noise was a real priority for many residents. It was apparent from the evidence which we heard regarding West Wind,

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includes a requirement for the consent holder to keep a complaints record Condition 85 of the consent conditions contains a complaints procedure

Creek if consent is to be granted. complainant of this. All of these things were shortcomings arising out of complaints in respect of for a close out action once the complaint has been dealt with, including advice to the time for this acknowledgement; for an estimated time to deal with the complaint; nor acknowledging to the complainant that a complaint has been received; for a response ರ Condition 85(f) requires that the complaints record must include acknowledge West Wind and would need to be addressed in the conditions for Mill and assess complaints. There are no requirements

despite the land contour, we find that this turbine poses a very significant risk of adverse noise effect that is unlikely to be mitigated. amenity reasons. The noise related reason for this as described in Para 570 of the first instance decision to decline consent to turbine F11 for both visual and noise In concluding this section on noise we refer to the Hearing Commissioners' decision is ... As this turbine is only 560m from the house site, and

at the top of a very exposed coastal escarpment.) (The house site referred to is a consented but not yet built site at 1000 Makara Road

understand that is because of the exposed location of the site, it will be subject to for noise amenity reasons evidence we heard, we do not consider that consent to turbine F11 should be declined very high background noise levels irrespective of any turbine noise. Based on the make no reference to adverse noise effects from turbine F11 on this house site. undertaken by Following the first instance hearing, there has been considerable further work the noise experts. In their 19 October 2010 Joint Statement,

# Public Health Concerns

ENVIRONMAN STATE OF THE STATE O AC 77.38 Specialists as well as being an Honorary Senior Lecturer in Environmental Medicine ببيرas provided by Dr D Black and Professor K Petrie for Meridian and Dr C Phillips [122] Expert evidence on public health concerns arising from wind farm operation ØPS. Dr Black is a qualified medical practitioner with Auckland Medical

psychological factors associated with environmental annoyance. Medicine and Science at the University of Auckland. His evidence focussed on the doctoral fellowships in health policy research and the philosophy of science qualifications are a doctorate in public policy from Harvard University and post farm projects. Professor Petrie is a Professor of Health Psychology at the Faculty of at University of Auckland. He has provided evidence on health issues for many wind Dr Phillips'

the primary issues in dispute before us. Potential concerns surrounding the operation of Mill Creek identified flicker, glare, blade glint, noise and vibration<sup>33</sup> s, with the latter two being ħ

Creek. 34 [124]neither cause epilepsy nor exacerbate that condition in anyone already suffering from evidence which we heard and we accept his conclusion that the wind farm would paper on the effects of wind farms on epilepsy published in 2008 in the Epilepsia Journal. testified of the wind turbines may cause flicker which in turn could cause epilepsy. Dr Black addressed the concerns of some submitters that the rotating blades that epilepsy cannot be worsened or precipitated by any aspect of He noted that his opinion was supported by the conclusions reached in a Dr Black's evidence on this subject was not contradicted by any other

potential adverse health effects from glare and glint and we accept his uncontradicted [125]evidence in that regard for all parts of the turbines to be painted in a light grey colour to minimize blade Dr Black considered that this requirement would satisfactorily mitigate any Condition 4 (d) of the proposed conditions of consent includes a requirement

[126]In terms of the wider health effects of Mill Creek, Dr Black stated:<sup>35</sup> recommendation of the WHO, I consider that this level of noise causes opinion, at Mill Creek will be within the levels set out by NZS 6808. In my As noted, Mr Hayes has determined the auditory effects of the proposal having reviewed the relevant literature

Black, EIC, Paras 3.1, 3.2

Black, EIC, Para 5.19

Black, EIC, Para 5.24

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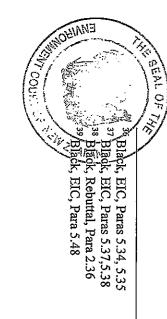
at these levels, they are an issue of amenity rather than public health effects that are no more than minor. To the extent that noise effects exist

noise at these levels is insignificant from a public health perspective guideline to avoid sleep disturbance.37 capacity of up to 15 dBA, internal noise levels will be well below the 30 dBA establishment of Mill Creek. predicted to have an outdoor noise level above 35 dBA as a consequence of the on sleep are to be avoided.<sup>36</sup> equivalent sound pressure level should not exceed 30 dBA indoors if negative effects Guideline for Community Noise which states that ....where noise is continuous, the In support of this statement, Dr Black quoted from a WHO document titled He noted that no residence outside the project site is With modern buildings having sound attenuation He concluded by expressing the view that

residences would be in the order of 29 dBA, still less than the of the predicted outdoor noise levels, the maximum internal noise levels at affected Using his attenuation figure of 6-8 dBA (as opposed to Dr Black's 15), on the basis We refer back to our earlier discussion of Professor Dickinson's evidence. WHO guideline of 30

lies outside the definition of the general public this is not generally practical. He noted that a hypersensitive population, if it exists, adequate safety margin, it does not attempt to cover a hypersensitive population as public health standard attempts to protect the entire main population curve with an In response to a statement made by Dr Phillips, Dr Black said that while

there was some debate between Dr Black and Professor Petrie on the one hand and Dr Phillips on the other as to whether the lack of well being from sleep disturbance condition verging on a diagnosable phobia in psychiatric terms<sup>39</sup>. wind farm can be sufficient to trigger anxiety and distress in some people, with this [130] Dr Black referred to a suggestion in the literature that the mere presence of a In this context



or as a symptom of anxiety and worry over the presence of a wind farm suffered by some people could be classified as being caused by a medical condition

commissioning of West Wind professionals. Any sensitivity to wind farm noise would have been exacerbated by are very real, irrespective of how these responses might be classified by health and feelings of ill health still being suffered by a small number of Makara residents unanticipated For our part, we have little doubt that wind farm induced sleep disturbance problems with SACs which occurred at the time of

cause tinnitus as they are too low by a factor of more than 30 dB.<sup>40</sup> of sound in the absence of corresponding external sound....not a disease in itself but near the wind farm might develop tinnitus. He described tinnitus as .. the perception [132] Dr Black also addressed the issue of whether some people who live or work symptom resulting from a number of underlying causes...often caused damage to hearing. He stated that wind farm sound pressure levels by noise

was his opinion that VAD would not be an issue for Mill Creek to large pressure, low frequency noise.<sup>42</sup> described as... occur at Mill Creek. 41 He also briefly discussed vibro-acoustic disease (VAD) damage being 140 dB, both considerably in excess of any noise levels predicted to does not extend below noise levels of about 85 dB with the threshold for acute from vibration generated by the turbines. the potential for persons living near the wind farm to suffer adverse health effects [133] A particular concern expressed by some witnesses for Makara Guardians was a multi-systemic entity caused by occupational or chronic exposure With the separation distances proposed, it Dr Black advised that subsonic vibration

contradicted by any medical witness. We accept his evidence Dr Black's opinions on the subjects of tinnitus, vibration and VAD were not

of that it is vital that if Mill Creek proceeds, there is full compliance with consented [135]What was apparent from the evidence of Makara residents which we heard is

Black EIC, Paras 5.29, 5.31
Black EIC, Para 5.47
Black EIC, Para 5.26

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that if full compliance with the consented noise limits is achieved from the outset, consent should be denied. accepting the evidence of Dr Black and relying on the WHO guidelines, we conclude degree of community distrust of Meridian which was evident to us. However, noise limits from the outset. The failure of West Wind to do that led to the high from Mill Creek will not pose a level of health risk such that

as to that 20 which provides for testing prior to the operation of identified turbines, satisfies us which have been drafted in light of the West Wind experience, including Condition unsatisfactory experience of West Wind. The imposition of a set of conditions, We are satisfied that full compliance can be achieved, notwithstanding the

## Amenity Expert Evidence The Coastal Environment, Landscape (Natural and Rural Character), and Visual

all of whom had considerable experience with wind farm assessment: We had evidence from four qualified and experienced landscape architects,

- Mr P Rough for Meridian
- Mr G Mansergh for Meridian;
- Mr S Brown for the WCC; and
- Ms A Steven for OPS.

from planning witnesses. In addition to the landscape witnesses, these matters were the subject of evidence

documentation. Truescape of photographs and other visual material. Additionally there were bound A3 witnesses provided us with approximately 630 pages of evidence and 280 A3 pages of material contained in the lengthy evidence During the course of the hearing, we expressed our concern about the volume photosimulations There was also the evidence of Mr R Maunder, for Meridian, on the which ran to 126 of the landscape witnesses. A3 pages with supporting

SEAL OF Truescape photosimulations and on the K2Vi 3D visualisation model from Mr C nowles for OPS (the graphic material which informed the evidence

respective landscape architects)

evidence and (particularly) graphic material presented in these proceedings. more efficient consideration of the parties' positions. common bundle of agreed photographs and photosimulations would have enabled a benefited from a considerably more focussed and collaborative encompassing a wide area with numerous potential viewpoints, affected parties and We to be taken into account. However, the Court and the witnesses would have appreciate that this application involved 53 substantial approach to the project

statement. difference and conflated these matters not only in their evidence but also in the joint of the coastal environmental, natural landscape and landscape features and visual issues that were in front of us. The RMA differentiates between the natural character witness statement<sup>43</sup> was superficial. It did not logically set out or work through the with the differences in opinion between the landscape witnesses. However, the joint extensive material and to present a clear outline of the matters we needed to decide The Unfortunately expert conferencing process provided an opportunity to cut through the the landscape witnesses frequently did not appreciate

### Coastal Environment

provisions on the appropriateness of a coastal wind farm and coastal development that coastal character. We also consider the relevant planning documents, including environment, its natural character, and the likely effect of the proposed wind farm on [141] Under this head we consider the evidence on the extent of the coastal

## Extent of Coastal Environment

SEAL OF showing their respective views as to the extent of the coastal environment. disagreement that in a physical sense, the majority of the turbines lay within the rural the wind farm lay within that environment. However the extent of disagreement was hinterland rather than the coastal environment. limited to coastal environment in the vicinity of the wind farm and whether or not any part of There was no agreement between the landscape witnesses on the extent of the an area in the south western corner of the wind farm. The witnesses provided a plan

Landscape Architect Witness Statement 1 October 2010

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identified the coastal environment as extending furthest and on the basis of

proposed to be situated within that environment. her interpretation 14 turbines (10 of the F series, H01 and 02, E05 and E04) are

influences to dominant rural hinterland landscape characteristics. Mr Mansergh observed there is a transition in this case from dominant coastal not easily defined by hard boundaries and there will commonly be grey areas. 44 We do not need to resolve the differences between the witnesses The Court has previously observed that the coastal environment on this

and have to be assessed in those terms elsewhere as the turbines would be visually juxtaposed with the coastal environment Mr Brown also made the point that it did not matter if he drew the boundary line stands on is hidden from view yet the turbine appears to be placed on the escarpment. not physically located in it. This is particularly the case where the ridge a turbine the turbines is such that they will be seen as part of the coastal environment even if coastal environment was somewhat academic, given that the scale and prominence of concur with Ms Steven's evidence that the theoretical extent of the

# Natural Character Values of the Coastal Environment

refers to the Makara Stream Flats as an Outstanding Geographical Feature and a and small beaches from Paekakariki to Owhiro Bay (including the coastline near Mill significant areas and values. Table 9 of the RPS identifies the coastal escarpments preserve the natural character of the coastal environment by protecting regionally Landform of Regional Significance. Creek) as Landscapes and Seascapes of Regional Significance. Objective One of the Wellington Regional Policy Statement (RPS) seeks to Table 10 of the RPS

SEAL Of hatural character. existing coastal environment can be considered to have a moderate (or greater) level In their joint statement, the landscape witnesses agreed that in general, the

Kaupokonui Beach Society Inc v South Taranaki District Council W 030/2008 para [46].

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areas within the vicinity of the site and assigned the following natural character values to them: Mr Rough divided the coastal environment into four landscape character

- Pipinui Point high;
- Smiths Gully moderate-high;
- Smiths Bay low-moderate; and
- Ohariu Bay low-moderate.

detracting from the natural character of the area baches at Makara Beach and Smiths Bay and the Oteranga Bay structure in particular He emphasised the modification of vegetation as reducing naturalness, along with the

shore, rated provide an evaluation of where on the natural character spectrum these divisions [148]coastal escarpment, seaward ridgeline and Cook Strait areas, but did not Mr Mansergh identified key attributes in a table for the beach and rocky

[149]of the coastline naturalness that is still important in terms of the public perception and appreciation display a consistently high level of natural character. Rather, it retains a veneer of Bay and Makara Beach. vegetation (including open pasture) in some places and by baches in and near Smiths natural character. He considered this was diminished by the lack of or the nature of edge imbued much of the coastline north of Ohariu Bay with a significant level of corridor, and the rock ledges, headlands, shoals and pebble-lined coves at the sea's property Mr Brown considered that re-emerging native shrubland across the Bowen (above Makara Beach and Smiths Bay), the Smiths Stream gully and He concluded that the coastal landscape does not as a whole

 $\widehat{O_F}$  marine elements and are well tucked into the landscape. electrode station and farm fences) appear small and subservient to landform and structures in this area (two small clusters of baches, the HVDC line and earth environment as high. emote and referred to as the wild coast, indicating the perception of a wild, natural Ms Steven assessed the natural character of the She considered that the limited number of buildings She said that this coastline Ohariu Bay-Pipinui Point

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jugged coast. Ms Stevens considered that the presence of West Wind to the south

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of Mill Creek, accentuated the relatively unaffected coastal landscape north of with no turbines on it. Ohariu Bay, when that part of the coast with turbines in it is compared to that part

#### Effects

effect would diminish the natural character of this part of the coastal environment to varying degrees depending on the vantage point. atop the coastal escarpment even though they are some distance inland, and that this (eight on the first inland ridge) would appear, from some perspectives, as if they are Both Messrs Rough and Mansergh acknowledged that the F series turbines

disrupt the land/sea junction some locations on the Skyline Track and Mt Kaukau trig as some turbines would considered there would be minor effects on the natural character when viewed from view with a moderate effect on the natural character of the coastal environment. considered that the turbines would form an important but not defining element in the the southern headland of Smiths Bay) turbines would be clearly visible. Mr Rough other publicly accessible viewing situations (such as on the Makara Walkway and at locations the turbines would be screened from view by the coastal escarpment. coast for up to approximately 2km offshore and from Fisherman's Point. [152] Mr Rough considered those impacts would be substantial for views of In some

of the coastal environment as follows: coastal edge or nearby inshore waters. He summarised potential effects on elements character of the coastal environment to some extent and more so when seen from the Mansergh's opinion was that the turbines would affect the

- For the beach and rocky shore: separation from the wind farm; low effect due to the visual and physical
- the perception of the turbines being atop the escarpment in some views; For the coastal escarpment: low-moderate adverse effect associated with

Fo: the perception of turbines atop the ridgeline; and the seaward ridgeline; low-moderate adverse effect associated with

• For the broader Cook Strait landscape: negligible effect due landward or seaward separation between the turbines and the water when viewed to the either

of the coastal environment would remain natural and continue to be perceived dominant elements influencing the experience of the coast. coastal edge would be limited. Also he said that where the turbines would be visible, being predominantly wild in nature. for example along the Makara Walkway, the beach and Cook Strait would remain the [154] Mr Mansergh emphasised that views to the Mill Creek turbines from the He considered this part

their exact location that would have the greatest influence on natural character from some coastal locations and seen in the context of the escarpment rather than However, he considered that it is the broad extent of the Mill Creek turbines visible being within the coastal environment, giving the example of Fisherman's influence coastal locations it is likely that a small number of turbines would be perceived as [155] Mr Mansergh gave evidence that under the proposed layout, turbines F10 and F11 appear to Accordingly, removing some (but not all) turbines would not change that be located at the top of the escarpment. from

the coast would also help visually and physically dissociate them somewhat from the most West Wind turbines). In his opinion the physical set-back of the turbines from contain the existing level of farming and built development (including the northernthat same landscape was more extensively revegetated and rehabilitated and did not endemic value of the coastal landscape, but not to the same degree as they would if moderate/high. on the natural character of the coastal environment would be moderate [156] Mr Brown was of the opinion that the level of effects of Mill Creek turbines He said that the turbines would erode some of the naturalness and

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environment,

thus reducing their overall prominence

and impact on the

affected by Mill Creek turbines. environment including the coastal escarpments would be substantially adversely Ms Steven was of the opinion that the natural character of the coastal

predominates the natural character of the coastal environment in the vicinity of West Wind of this part of the coastal environment would remain predominantly natural even with the addition of Mill Creek turbines, evidenced in her view by the way in which Mrs C Foster (planning witness for Meridian), considered that the character

#### Cumulative Effects

combination with West Wind. Mill Creek wind farm would contribute to cumulative effects on natural character in Both Messrs Rough and Mansergh gave evidence that the visual impact of the

predominantly wild in nature. environment would extension to within Mr Mansergh gave evidence that the Mill Creek turbines would be the wider that development. context of the remain natural and continue West Wind turbines Notwithstanding this he to and þe would appear perceived thought the as coastal being

they would be unlikely to be as significant as the direct effects associated with Mill Creek. Mr Brown gave evidence that even though cumulative effects would occur,

reduced by Mill Creek turbines. evidence on a number of adverse effects that came as a result of the consenting of remoteness which is associated with wildness, found by the Environment Court in have unavoidable adverse effects. preserve the natural character of the coastal environment and found that it would adverse effects. West Wind, also referring to it as reaching what she described as a threshold of [162] Ms Vest Wind decision to be significantly reduced, would be further significantly Steven considered the cumulative effects to be significant. She said that the Environment Court did not consider West Wind to Ms Steven considered that the aspect of

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Are the adverse effects unacceptable or inappropriate?

[163] turbines sea, so significant as to require either the removal of particular turbines or series of character of those parts of the wind farm visible from the shoreline, coastal cliffs and The Commissioners at first instance did not find the adverse effect on natural

force at the time we heard the application<sup>45</sup>. A live issue is Policy 1.1.1 in the New Zealand Coastal Policy Statement in That Policy states:

environment by: It is a national priority to preserve the natural character of the coastal

- $\mathfrak{g}$ the coastal environment; avoiding sprawling or sporadic subdivision, use or development in where the natural character has already been compromised and encouraging appropriate subdivision, use or development in areas
- b)development on the values relating to the natural character of the location; and coastal environment, both within and outside the immediate into account the potential effects of subdivision,
- 0 avoiding cumulative adverse development in the coastal environment effects of subdivision, use

SEAL OF another similar development with West Wind highly localised and occurs at a point along the regional coastline which features considered to be no longer natural. She said that the effect is also in regional terms overall natural character of this part of the coastal environment or result in being compromised and the effect therefore not of a degree that would undermine the considered the natural character in the vicinity of the Mill Creek site to be already escarpment) by introducing highly-visible structures to an inland site. However, she of natural character of this part of the coastal environment (including the coastal [165] Mrs Foster accepted that the proposed turbines would diminish the perception

The NZ Coastal Policy Statement 2010 was not before us by any party.

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the turbines from coast. mitigating factors such as the lack of original vegetation and the physical set back of environment, although moderate to moderate/high would not be unacceptable given Mr Brown was of the opinion that the level of effects on the coastal

to a significant degree Policy 3.2.4 of the District Plan seeks that cumulative effects are not adverse

distant positions and would not be significant. farms (Long Gully) would not be experienced collectively from other than a few effect of existing (West Wind and the single Brooklyn turbine) or consented wind coastal environment of the Wellington and Wairarapa region the cumulative Mrs Foster gave evidence that in the context of the broader expanse

#### Evaluation

definition is not critical in terms of the effects. [169]Messrs Rough and Brown, but agree with Mr Brown and Ms Steven We find that the coastal environment extends to the line inland suggested by that the

case with the coastal environment affected by West Wind turbines. presence of baches and other structures, a wild character remains. and that looked We accept that parts of the coastal environment have a high natural character, at overall, notwithstanding the nature of the vegetation and the That is also the

km, adversely affecting the natural character of the coastal environment [171] We accept that the turbines would be prominent in the view from sea out to 2

on the views and experience of the natural character of the coastal environment from [172] locations around the coastline, added to the effects of West Wind We accept that the Mill Creek turbines would have significant adverse effects

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on the views and experience at the first instance did but not for this reason) would not remove the adverse effects We accept that removing individual turbines (even F11 as the Commissioners

the RMA. inappropriate development in terms of s6(a) or Policy 1.1.1 of the NZ Coastal Policy Statement. [174] However, this is not determinative of whether or not the turbines Section 6(a) considerations do not trump s5 and other Part 2 matters in We return to this issue when undertaking our overall evaluation under

#### Landscape

[175] Section 6(b) declares as a matter of national importance:

inappropriate subdivision, use, and development The protection of outstanding natural features and landscapes from

and enhancement of amenity under s7(c) and the quality of the environment under [176] Landscape is also relevant to considerations in s7, such as the maintenance

Landscape Context and Character

Pigeon Bay factors 46 [177] In considering the landscape, the landscape witnesses looked at the *modified* 

into six landscape character areas: character and sense of cohesiveness and place. Mr Brown subdivided the landscape character areas - definable areas of land with a broadly homogenous landscape The landscape witnesses divided the context landscape into landscape

- The coastline from Ohariu Bay northwards;
- The suite of pasture-dominated ridges inland;
- The line of rural-residential hugging the floor and lower slopes of Ohariu

The Takarau Gorge and its southern mouth;

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Ënvironmental Society Inc ν Queenstown Lakes District Council [2000] NZRMA 59

- Makara Streams, extending through to the back of the existing Makara The broad valley and marginal slopes at the confluence of the Ohariu and Beach settlement; and
- The settlement of Makara Beach

Design Guide: boundary and name are not important) and recognised in the District Plan Rural identified by Messrs For our purposes it is sufficient to use the three landscape character types Rough and Mansergh and Ms Stevens (the differences in

- The coastline (which we have already discussed);
- Ohariu Valley; and
- Makara Valley.

following are listed as a summary of *Ohariu Valley's* landscape features<sup>47</sup>: h the appendix of the Rural Area Design Guide to the District Plan the

- security and stability. Open pastoral hill country with a strong sense of order, coherence
- rather than indigenous. The natural dimension of character is overwhelmingly pastoral
- sustaining the rural character and the sense of space and freedom. Maintaining uncluttered hills and ridges is fundamental to valleys, up gentle slopes and out onto rolling tops and ridges Characterised by largely undivided open space running from
- and working areas reflect functional farming requirements; shelter for stock, buildings a very coherent pattern. Older plantings of pine and macrocarpa The location of woody vegetation, almost exclusively exotic, follows
- developed pasture and few areas of scrub weeds and re-growth. remote and sparsely populated but intensively managed with Areas to the north of Makara Beach and west of Ohariu Valley are
- SEAL OF THE Unto valleys so the structured dimension of the landscape is low key. Buildings of any significance are generally scattered and folded

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ign Guide, Section A3, page 21.

buildings are typically understated and unobstrusive and hence assuming an uncharacteristic detached dominance, With the exception of a few recent buildings designed for views,

[181]For Makara there is the following summary of landscape features<sup>48</sup>:

- environment includes areas of intensive cultural development and Although having an overall rural character the Makara Stream activity with a village character
- there is space to accommodate an intensification of development. At the southern end of the south Makara Valley, where the valley widens
- Pastoral farming is interspersed with extensive areas of reversion
- dispersed where valley bottoms are wider in the South Makara Stream. and along road corridors, clustered where flat land is limited and Settlement and cultural structures tend to be located in valley bottoms
- with ridges being exposed and inhospitable. Slopes above the valley bottoms are often steep and difficult to build on
- advanced on south facing slopes. steep with reversion occurring; indigenous regrowth is often well Although ridgetops are open with rough pasture the faces are generally
- along the coast largely been confined to the bottoms of valleys, along ridgelines,and The very broken and difficult topography has meant that access has

also a skyline feature in views from within Ohariu Valley, especially at its southern especially from various locations in its southern half. end and from elevated positions. summaries. Wind turbines have now become a skyline feature from within Makara Valley, ₩e did not understand the landscape witnesses Since the preparation and inclusion of these matters in the District Plan, The West Wind turbines are ō disagree with those

SEAL DISS modérate All the level of naturalness, with openness landscape witnesses assessed the and a pastoral land use Ohariu landscape as as having defining

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being a dominant element in the way of large ridges and small hills and spurs elements. Ms Steven considered Ohariu had a high level of legibility with landforms

[184]from it all. meaning free of built form, an absence of human clutter, and getting away meaning expansive, grand, and not contained. Messrs Rough, Mansergh and Brown used the term openness in the spatial Ms Steven used the term in a

presence of West Wind now makes the Ohariu Coastal Hills more open and skylines and ridgelines with much reduced openness. Mr Mansergh said that the [185]undeveloped in contrast. Makara, wind turbines are a defining element, with large prominent built forms Ohariu Valleys, on the character of the different areas. Ms Steven gave evidence that the presence of Wind on The main difference between the experts was as to the effect of West Wind with the Takarau Gorge an area of transition. the Makara hills reinforces the distinction between Makara and She said that

or that the perception of adverse effects has decreased since construction this is so in a physical sense that does not equate to an acceptance of their presence landscape and Mr Rough referred to them as landmarks. Mr Mansergh stated that turbines may now þ Ms Steven said that while considered

## Outstanding natural feature or landscape?

and the District Plan do not identify any outstanding natural features and landscapes outstanding natural feature or landscape. (Outstanding Natural Features, Landforms and Sites of Historical Importance) of the within the district. The site is not identified in any regional planning instrument as on or No elements of the site are contained within Table 10 The operative Regional Policy Statement

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prevails around the south-east coastline from Titahi Bay to Owhiro Bay) is a distinctive coastal escarpment on the seaward edge of the site (a feature which However, landscape and that the site is not an outstanding natural landscape under s6(b). landscape witnesses agreed that the landscape is refer to an area or feature as an outstanding natural feature or landscape 49 but all the candidate for ranking as an outstanding natural feature under s6(b). [188] Our considerations are not confined by whether the planning instruments Mr Rough, Mr Mansergh and Ms Steven were of the opinion that the a cultural rather than natural

outstanding natural feature said that is not sufficiently natural and unified overall to be outstanding Mr Brown, while agreeing the outer edge of coastline comes close to being

natural feature escarpment on the seaward edge of the site could be a candidate for an outstanding of its attributes and characteristics. However, we accept that the distinctive coastal natural landscape either in the regional and district planning documents, or because [190] We find that the site is not an outstanding natural feature or outstanding

## Effects on the coastal escarpment

the coastal escarpment coastal escarpment. He considered there to be a sense of separation and setback from the wider coastal environment they would not be seen as being directly atop the context of escarpment. Mr Brown said that while the turbines would be viewed atop integrity of the coastal escarpment even though turbines would be visible in the and Mansergh agreed that the turbines would be far enough away not to affect the [191]No turbines would be located on the coastal escarpment itself. Messrs Rough

as sitting on the coastal escarpment, a significant adverse effect Ms Steven did not agree. She considered the wind turbines would be viewed

[193] planning and other witnesses In the District Plan, Open Space zoning extends along the coastline but the were unclear about whether it only covered the beach

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brings into play Policy 16 of the District Plan (Open Spaces) which is to: or whether it climbed up the immediate coastal edge/cliffs. That open space zoning

the Wellington landscape, and in particular significant escarpments and coastal cliffs. landforms and landscape elements that are significant in the context of 16.5.2.1 Identify and protect from development and visual obstruction

earthworks on identified ridgelines and hilltops 16.5.2.2 Restrict the construction of buildings, structures and

Policy 16 of the District Plan, wherever the Open Space zoning line extends to. escarpment and would not visually obstruct the escarpment and therefore not offend find that the turbines may affect perceptions of naturalness associated escarpment. The turbines would not be placed on the

## District Plan Ridgelines and Hilltops Overlay

outstanding natural feature or outstanding natural landscape (or significant amenity ridgeline in the overlay of the planning maps. However, that is not the same as an landscape — which we address shortly), as the District Plan makes clear. The District Plan has part of the Mill Creek site as an identified (hills and)

development. The relevant objectives and policies are: The Ridgelines and Hilltops overlay does not prohibit wind turbine

development. managing the scale, 14.2.2 To maintain and enhance the character location and rate and design of new building of the Rural Area

recreational or heritage values that may exist in these identified areas remedy or mitigate adverse visual effects and effects on any natural, and earthworks on identified ridgelines and hilltops in ways that avoid, 14.2.2.2 Control the construction and siting of new buildings, structures

ENVIRONMENT OF STATE (Hilltops overlay (and in which turbines E06, E07, J01 and J02 are proposed), is not a sparticularly distinctive feature within the site nor in the general context of the Brown agreed) that the ridgeline of Mill Creek Hill, subject to the Ridgelines and [197] We accept the evidence of Mr Rough (with which Messrs Mansergh and

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effect on any standing the overlay area may have as a landscape feature. surrounding landscape. The wind farm would not have a particularly significant

Significant Amenity Landscape?

26 of the Proposed RPS which relevantly states: Creek landscape was part of a significant amenity landscape as provided for in policy There was some debate among the landscape witnesses as to whether the Mill

taking into account the following factors: District and regional plans shall identify significant amenity landscapes Identifying significant amenity landscapes — district and regional plans

- <u>a</u> Natural science values: these values relate to the geological ecological, topographical and natural process components of the landscape: ...
- 6 Aesthetic values: these values relate to scenic perceptions of the feature or landscape: ...
- (c) Expressiveness (legibility): ...
- (d) Transient values: ...
- (e) Shared and recognised values: ...
- (f) Tangata whenua values: ...
- (g) Historical associations: ...
- [199] Policy 27 goes on to provide:

policies, rules and/or methods for managing these landscapes in order to maintain or enhance their significant amenity landscape values accordance with policy 26, district and regional plans shall include Where significant amenity landscapes have been identified in

matter to which particular regard is to be had landscapes falls to be considered under the amenity provisions of s7(b) RMA as a [200] It is clear that Policy 27 requires that the management of significant amenity

Tandscape has not been), any relevant policies, rules or methods do not apply to that as a significant amenity landscape in any relevant district or regional plan (and this The Council position was that until a landscape has actually been identified

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Policy 49. landscape. Instead the relevant policy of the Proposed RPS is an interim policy,

subject to appeal seeking its deletion, as is Policy 27. has not commenced to identify significant amenity landscapes under Policy 26 as it is Mr J Rusbatch (a planner with the Regional Council) advised us that work

my experience of observing many rural farm landscapes, it's pretty typical but it significant amenity landscape. However, Ms Steven also acknowledged that .. does have its own distinctive characteristics.<sup>50</sup> Ms Steven maintained that, applying the Policy 26 criteria the landscape is

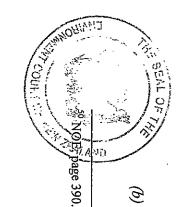
required within a wider regional context and that had not been undertaken determine if the site was part of a significant amenity landscape an Messrs Rough, Mansergh and Brown were all of the opinion that in order to

qualities required for a landscape to constitute a significant amenity landscape. Brown also stated that while the landscape affords amenity, it falls short of the appealing rural landscape with amenity value, but with nothing special about it. considered the rural hinterland incorporating the wind farm site to be a reasonably [205] Mr Rough said that all landscapes probably have some amenity value.

# [206] Policy 49 of the Proposed RPS requires that:

particular regard shall be given to: landscape, and/or in determining whether an activity is inappropriate outstanding natural feature and landscape, or significant amenity determination shall be made as to whether an activity may affect an When considering an application for a resource consent, ...

- the degree to which the natural feature or landscape values will be modified, damaged or destroyed including
- the duration and frequency of any effect, and/or
- the magnitude or scale of any effect;
- the irreversibility of adverse effects on landscape values;



- 0 the resilience of the natural feature place or area to change;
- (d) the opportunities to remedy or mitigate previous damage to natural feature or landscape values; and
- (e) whether the activity will lead to cumulative adverse effects on the natural feature or landscape values

Policy 49 are all matters that the witnesses traversed in considering the effects of the therefore we should give it limited weight. In any event, the relevant matters in landscapes were identified in district and regional plans. Policy 49 as this is [207] Mr Rusbatch said that Ms Steven was correct to assess the landscape against has also been appealed with the appellants seeking its an interim policy applicable before significant amenity However, he advised deletion

areas. Indeed Ms Steven acknowledged that as being the case Brown and Rough that there is nothing which singles this area out from other rural way in which they should be applied). We accept the persuasive evidence of Messrs Policies 26 or 49 (regardless of the weighting these policies should be We conclude that the landscape is not a significant amenity landscape under

# Effects on Makara and Ohariu Valley Landscapes

appears to be framed by closer hills with more proximate, and visually significant, of, viewpoint and the number of turbines or parts of turbines visible on the skyline. sections of skyline which turbines are visible in a view is often a low section on the horizon, which However he considered that from many salient viewpoints the section of skyline on visual effect on skylines, varying according to the viewing distance from, elevation [209] gave evidence that the wind farm would have an unavoidable

accepted that the large size of the turbines would draw attention to them rather than appreciation of the rural landscape. character of the area. structures onto skylines valued for their natural form and contribution to the rural [210] Mr Mansergh gave evidence that the wind farm would introduce tall built He said for some people this is likely to detract from However, rural activities would continue.

varying between very low to moderate-high depending on location. spatial character of the landscape. the rural land surrounding them and this would alter people's perception of the He rated effects on the existing landscape as

human intervention and modification already apparent in the character of Ohariu elements to still dominate the western valley slopes and horizon. He emphasised the not high. In his opinion in Ohariu Valley the turbines would float atop the ridges and Valley, including the existing transmission corridor. vegetation around Mill Creek, allowing those much more substantial and grounded the Ohariu Valley and Makara landscapes would be of a low to moderate order and transformative of it. He considered the combined effects of Mill Creek turbines on elements and patterns intact. Mr Brown said that wind turbines leave many if not most landscape features. Wind farms add to the landscape but are not physically

production landscape which we understand to mean a landscape dominated by wind a change the landscape from a traditional open pastoral or natural one to an energy character and open natural skylines), visual coherence, and what she considered to be turbines and electricity transmission lines adverse effects on the landscapes of Makara and Ohariu Valley and their associated [212] Ms Steven considered that overall the proposal would have significant She based this on the effects of the turbines on openness (including open

and/or sea and sky occupy a relatively small sector of very expansive views of open space. considered that this effect was mitigated because the turbines generally appear to open space as seen from elevated vantage points such as the Skyline Track. He strongest effect of the turbines would be when they obtrude into the general sweep of did not agree and said that the greatest effect on openness would be from viewpoints of open space by the spread out nature of the turbines and Mr Mansergh considered that the sense [213]where there is Mr Rough was of the view that in terms of openness, open space is sustained is not entirely compromised by them. an expectation of open skylines and uninterrupted Mr Rough stated that layers Ms Steven

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and form of turbines and their relentless rotating action are fundamentally at odds that from viewpoints within a reasonable range (a few kilometres) they would with the rural landscape setting, compounded by their multiplicity. and whether its elements are congruent or incongruent. She considered that the scale movement, scale and uncharacteristic pale solid vertical form. dominate or co-dominate the landscape because they draw the eye due to their farm elements and patterns fit in to the character of the existing pastoral landscape Ms Steven also addressed visual coherence and considered how the wind She concluded

an energy production landscape None of the other landscape witnesses considered that the landscape would become remaining landscape surrounding Wellington thereby having an adverse cumulative scale of the site and the landforms meant that the turbines would not dominate them. extend the energy production landscape of West Wind over an extensive part of the Ms Steven considered that the addition of the Mill Creek turbines would Messrs Rough and Brown did not agree with Ms Steven, considering the

existing distinctive character of this rural area, an open pastoral to wooded character not at issue, but that the question to ask is will the proposed wind farm maintain the would not retain that existing landscape character. with a moderate level of naturalness and a high level of openness. [216] Ms Steven contended that whether the landscape remains rural in character is She considered it

#### Rural Character

development and farming activities are seen as contributing to rural character refer to rural character<sup>51</sup>. Although the District Plan does not define what constitutes rural character it is clear The District Plan contains several provisions relating to the Rural Area which within the It treats rural character differently from amenity values. Plan that elements such as naturalness,

the non-statutory Rural Community Plans for Ohariu Valley and Makara as well as of the wind farm and particularly the turbines on rural character. [218] Many of the lay witnesses we heard expressed their concern about the effect Some referred to

11 District Plan, Objectives 14.2.2 and 14.2.3 together with Policies 14.2.2.1, 14.2.2.2 and 14.2.3.1

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of that area significantly and not desirably. considered that the presence of West Wind turbines had changed the rural character in describing that rural character. The lay witnesses (including several from Makara) the Rural Design Guide, and their expressions of what is important to the community

### Effects on rural character

phase while re-vegetation and landscaping initiatives take hold. significant short term effects from the construction phase and during the operational Valley would not be irreversibly affected by the wind farm, but there would be some The Commissioners at first instance agreed the rural character of Ohariu

openness, as can be seen at West Wind. underlying landform and rural activity mean the site would remain rural in character. Ohariu landscape would maintain a moderate level of naturalness and a high level of said Mr Rough considered that the spacing of turbines and continuation general sense, with the proposed wind farm built, the site and Mr Mansergh was of a similar opinion

activities which change the very nature of the landscape landscapes but it is a case of managing change. For wind farms he saw it important [221] Mr Brown emphasised that it was not possible to fossilise amenity or rural the primary production use endures, setting wind farms aside from other

level of openness. whether the proposal would maintain the existing distinctive rural character, being an would remain rural in character. However, she said that the question to ask is [222] Ms Steven accepted that if the proposed wind farm proceeds the landscape pastoral to wooded character with a moderate level of naturalness and a high She acknowledged that it is inevitable that all landscapes change.

### Overall Evaluation

affected by the proposed wind farm there is: Mr Webb submitted that within what he called the amenity landscape

Seastal environment with a high natural character (almost ૂર્∂બ્tstanding but for a degree of cultural intrusion) but potentially could still be outstanding after a regional assessment;

- feature after a regional assessment; Coastal escarpment that could also be an outstanding natural
- pasture and few trees; and minimal manmade structures. It is "bare" in the sense of lots of Rural hinterland that is still a clean, uninterrupted landform with
- Ridge line within the Hills/Ridge line overlay. 52

He submitted that these factors elevated the values of this amenity landscape We do not agree with that proposition for several reasons

dealt with the indirect effects of the turbines under the heading of coastal turbines would not affect the integrity of the coastal escarpment. We have already [224] environment of s6(b) We find that the coastal escarpment may be an outstanding natural feature in RMA but we agree with those witnesses who considered that the

particularly distinctive [225] standing the overlay area may have as a landscape feature. surrounding landscape. The ridgeline of Mill Creek Hill, subject to the Ridgelines and Hilltops (and in which turbines E06, E07, J01 and J02 feature within the site nor in the general context of the The wind farm would not have a significant effect on any are proposed),

under appeal and should be given little weight. any event, that concept is introduced through the Proposed RPS whose provisions are We do not find the site to be part of a significant amenity landscape area.

[227] RMA defines amenity values to mean:

coherence, and cultural and recreational attributes contribute to people's appreciation of its pleasantness, aesthetic those natural or physical qualities and characteristics of an area that

SULP OF THE and surrounds has amenity value, we would have been surprised if that had not been While all the landscape witnesses agreed that the landscape of the Mill Creek site case. Rural landscapes commonly have amenity values for residents and others

<sup>32</sup> Opening Submissions, para 82.

generally to be a landscape high in amenity values. concept of an amenity landscape advanced by Mr Webb although we assumed it who experience them. We did not receive any satisfactory explanation of the

this decision). rural landscape. disagree, given our preceding findings. [228] To the extent that it might be suggested that this particular landscape deserves higher weighting (We deal with effects on visual amenity values in a later section of in our considerations than an ordinary rural landscape we The Mill Creek site is, by and large, a typical

themselves will result in a major change. and rural character of Ohariu and Makara Valleys as the addition of the turbines by landscape at a point in time [229] Clearly the proposed wind farm would not maintain the existing landscape There is no requirement in the RMA or the planning documents to freeze the However, that is not determinative of the

character would similarly remain albeit in a changed form, even if the proposed wind farm is removed the rural character of that site, the Makara Valley and surrounding areas. remains, notwithstanding the presence of those turbines which have changed but not We agree with the landscape witnesses that the rural character of the Mill Creek site [230] We note that the rural character of the West Wind site and surrounding areas We accept that rural landscapes can adapt to change and still maintain rural

Plan provisions on rural character. [231] Accordingly, we find that the proposal would not be contrary to the District

### Public Viewpoints

Walkway. stribine is around around 550m away from the gun emplacements area on the Makara Bay to Makara and the Makara Walkway (a 6 km circuit track). One West Wind Bay, the route along the coast between Titahi Bay and Ohariu Bay or from Owhiro Beach, the only part of the coast accessible by road between Porirua and Owhiro farm will be seen, including walking and cycling tracks. These include Makara [232] There are many public vantage points from within which the proposed wind The tops of the Colonial Knob Walkway (a 7.5km loop through a scenic

Belt of Wellington (including parts of tracks doubling as part of Te Araroa the Long Pathway) and the reserve adjoining Old Coach Road have views out to the site. Spicer Forest), Mt Kaukau and along the The latter are part of the Outer Town Skyline Walkway

into an energy production landscape effects would be incremental and not transform the south-west coast of Wellington also said that while the Mill Creek proposal would be viewed in conjunction with the Messrs Rough, Mansergh and Brown did not agree with her assessment. Mr Brown production landscape, thereby significantly adversely affecting West Wind turbines from a wide range of public and private vantage points, most wind farms would be to turn the south-west coast of Wellington into an energy [233] Ms Steven had a concern that the effect of the West Wind and Mill Creek visual amenity.

### Coastal Amenity Effects

walkway and we heard them from the gun emplacements, a place we went to on our with the coastal environment section of this decision. We acknowledge that the West including the beach and the Makara walkway, recognising that there is a crossover Wind turbines are already in view (and hearing) from parts of the Makara coastal [234] Firstly, we consider the effect on the amenity of the users of the coastline,

emplacements on the Makara coastal walkway, the whole of the wind farm would be series turbines of Mill Creek would be visible. Wharehou Bay most of the Mill Creek turbines would be visible. From near the gun [235] From the coast itself, between Makara Beach and Fisherman's Point, the F The West Wind turbines to the south along the coastline are also visible from As walkers move south towards

and from Smiths Bay. More turbines would be visible from the rocky headland to the [236] south of Smiths Bay Turbines F07 and F11 will be visible from the coast north of Makara Beach

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detract from their experience of the beach to the point they would go there less often based on their experience of the West Wind turbines detraction from their experience of the coastline and waters around Makara Beach. Wind turbines with the coastal walkway up to the gun emplacements already They consider that the Mill Creek turbines would compound the effect of the West [237] Several residents gave evidence of their concern about a further significant views of turbines when walking south. Some said the turbines would

the proposal would not harmonise the two landscapes of Makara and Mill Creek. Point to Smiths Bay would be dominated by the Mill Creek turbines. He considered would be severely affected. He said the view across Ohariu Bay from Fisherman's considered unspoilt landscapes on the foreshore at Makara Beach and Smiths Bay foreshore tracks to the south or north, and goes snorkelling and picnicking. He also Μ̈́ Jarratt (a witness for OPS) said he regularly walks the

turbines, and referred to a view from this walkway used for the front cover of DOC's only expansive view to land from the walkway not currently affected by West Wind [239] Walkways of NZ booklet. Walkway would look straight at Mill Creek turbines to north. Ms J Jorgensen (a witness for OPS) said that the view from the Makara She said that

SEAL OF THE bold, landforms. There would also be cumulative effects of a sequential nature substantial because large structures in an area would be seen in relation to simple, the effect of the wind farm on visual amenity values would increase prominent feature. considered that from the walkway, while the turbines would be prominent features in windswept and being ruggedly beautiful, with coastal views and vistas.53 values of a spectacular coastline and wild coastal environment that can be bleak and opportunity to experience sections of Wellington's wild coast with its open space approximately 3 km from the turbines. He said that the Makara Walkway affords views towards [240]Fisherman's Mr Rough considered that the wind farm would have substantial effects from Point and from coastal waters such as those off Ohariu Bay, up the wind farm, the sea and landforms would continue to be the most However, he considered that as Fisherman's Point is approached, to being

Wellington City District Plan Rural Area Design Guide, page 23

notably affect the perceptions of the coast as a natural and rugged place Mr Mansergh said that where only a few turbines are visible they do not

vegetation would screen most of the proposed turbines. said it would have less of an impact on Makara Beach because intervening ridges and well as north and south of it, including Smiths Bay and the gun emplacement. reduced level of impact on the rest of the coastline on the outer edge of the Bay as to moderate/high impact on the southern shoreline of Ohariu Bay, but a slightly [242] Mr Brown considered the proposal would have a more significant, moderate

effect on amenity from the gun emplacements and considered that would be greater significantly reduced by West Wind, would be further significantly reduced by Mill that the aspect of remoteness which is associated with wildness, found to be with Mill Creek turbines. Creek turbines. She referred to the Court's finding that there would be a substantial visual amenity from coastal waters and in her opinion Mill Creek would exacerbate She said that the Environment Court found West Wind to have a substantial effect on coast to be significant from many locations, including from the gun emplacements. [243] Ms Steven considered the adverse effects on recreational users of the wild by repeating the effect further along the coastline. Ms Steven also considered

beyond it as well as the Makara Walkway with views from the gun emplacements. their cars to obtain access. between Owhiro Bay to the south and Titahi Bay to the north where people can drive some recreational users of this coastline. We find that Mill Creek would have significant adverse visual effects for There is also the popular Fisherman's Point and beach Makara is the only point along the coastline

50 WW changed view of interest while others would find that the Mill creek turbines detract prominent turbine at the gun emplacements. West Wind as people using the walkway already have turbines to the south and a [245] Visual effects of Mill Creek in this vicinity would be cumulative on those of We accept some people might find the

from their view northwards.

Effects on the Skyline Walkway/Northern Walkway/Te Araroa Trail

down on it and beyond to the sea Walkway/Northern Walkway/Te Araroa Trail which links these features there are (sometimes intermittent) of Mill Creek in its entirety as well as most of West From Mt Kaukau and Colonial Knob and along the 12 km ridgeline Skyline The ridgeline is considerably higher than the Mill Creek site and views look

site at Colonial Knob and the Spicer Landfill. some views through the transmission lines running down the eastern side of Ohariu landscape includes the Tasman Sea, farmland and rural-residential development, with would have a low impact on the qualities of a highly modified wider landscape. Valley, the Mt Kaukau broadcast communication station, the Airways Corporation and West Wind would visually overlap. Although the wind farm would be visible it posts on scattered distant ridges and from some locations the turbines of Mill Creek [247] Mr Brown considered the proposed turbines would read as a patina of white

maintained the wind farm would not dominate because of generous spacing and ridge disruption of the land/sea/sky junction and having a reasonably substantial effect. He location and the rural character would prevail. viewpoints and a focus of attention, a prominent and very distinctive feature causing Mr Rough stated that Mill Creek would be central to the view from these

character would still prevail even where the turbines would be prominent Skyline Track would be substantial. Mr Rough repeated his conclusion that distinctive (as did Ms Stevens) that all 31 turbines would be prominent and the effect from the Mr Mansergh assessed the visual effects as moderate although he also and

consuming the landscape. She did not agree with Mr Rough that West Wind is only Misery and Colonial Knob. She considered that from points at the north end of Te over a distance of at least 15km, or about 75% of the total distance between Mt [250] Ms Steven gave evidence that the two wind farms would be seen to spread Wharangi ridge the two wind farms would appear as one continuous wind farm. In opinion, the lasting impression would be of a large wind energy facility

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production landscape of the other witnesses from Colonial Knob that the effect on amenity would be likely to be moderate. three of the West Wind turbines would be seen together. However, she agreed that a minor feature, primarily because of what she described as its incongruity and its From the summit knolls she said that all of the Mill Creek and all but considered that the view and impression would be of an energy None

places. notwithstanding that Mill Creek may appear as a continuation of West Wind in landscape would not result in a major change to the experience of users consider that the distance and angle of view of the turbines over an already modified We accept the Walkway/Northern Walkway/Te Araroa Trail. evidence of Messrs Rough, Mansergh and Brown. We reach that conclusion of

#### Old Coach Road

Road, a horse riding, cycling, walking and running track and dropping down into Rifle Range Road, and is part of Te Araroa. [252](a witness for OPS) raised concerns about the view of turbines from Old Coach The Old Coach Road runs off the Skyline Walkway, traversing the hillside Mr P Stothart

that existing power pylons and overhead lines, including pairs of overhead lines from the upper sections of the track cumulative effect resulting from both wind farms being visible at once, particularly moderate amenity. interfering with distant views of the horizon, have a substantial effect on visual feature in the wider landscape with a minor effect on visual amenity values. He said character and glimpses of the Tasman Sea. Road Track are based on extensive panoramas of Ohariu Valley with its rural [253] Mr Rough considered that existing visual amenity values from Old Coach effect He considered that overall the Mill Creek wind farm would have on visual amenity values from The West Wind turbines are the track, even with a modest

ENAMED IN element from the top half of the track and compromise the values associated with the Mr Mansergh remarked that the pylons and lines form a strong foreground

rural environment. He considered the effects of the Mill Creek turbines would be moderate, but not result in the loss of the essential characteristics of views

against the distant hills of the Marlborough Sounds or the sky. Mill Creek would be 50% of the visible western skyline seen to overlap West Wind so that one continuous wind farm would be seen over 30facing slopes or point the traveller west, Mill Creek would be seen in its entirety over Ms Steven said that from those parts of Old Coach Road that traverse of hill ridges that form the western horizon with turbines silhouetted

will be a minor (albeit visible) component of this wide landscape. on Old Coach Road, but consider that the factor of distance means that the turbines turbines will be seen in conjunction with West Wind turbines from many viewpoints from the experience of users of the Old Coach Road. We accept that Mill the Mill Creek turbines to the transmission lines would not detract in a major way We prefer the evidence of Messrs Rough and Mansergh that the addition of

### Effects from Other Locations

of the landscape will be visible to varying degrees their impact was limited due to the modified nature although there were a number of places along Takarau Gorge Road where turbines highly modified and working nature of the landscape in that area and identified that Turbine G04 which he described as occupying a commanding position. He noted the impacts on the Takarau Gorge. [257]Mr Brown considered the proposed turbines would have limited visual The notable exception to that assessment was

north, resulting in a strong cumulative effect opinion that the Mill Creek wind farm would fill in the remaining open skyline to the turbines to be low from places such as Makara Hill, but Ms Steven was of the [258] Messrs Rough, Mansergh and Brown considered the potential visual effect of

### Overall Evaluation

 $rac{1}{2}$   $rac{1}{2}$  raWe agree with the evidence that the proposed Mill Creek wind farm would

associated noise. We note the evidence of lay witnesses describing how the addition some people, notwithstanding the presence of the West Wind turbines and their coast around Makara Beach and to the south beach around Fisherman's Point. That would detract from the coastal experience for Wind turbines already detracts from their experience and enjoyment of the

even Ms Steven saw the effects as moderate from many of these locations viewer is a significant factor in assessing their effects on these views. these places and the addition of Mill Creek would not result in a major change to the significant. views that people experience. effect on visual amenity from other public places and walking tracks would not be [260] We accept the evidence of Messrs Rough, Mansergh and Brown that the West Wind turbines are already in many of the views received from The considerable distance of the turbines from the We note that

## Visual Amenity and Residents

and Motorimu. That involves consideration of the following factors: visual amenity effects of turbines on residents adopted by the Court in West Wind Webb submitted that we should use the approach to the assessment of

- Whether there is a landscape backdrop or skyline behind the turbines:
- The complexity of the landform and vegetation within view
- Whether the turbine is elevated above the viewer;
- The expanse of the vista;
- Screening;
- Proximity; and
- House design

have been clearly articulated in the Ohariu Valley and Makara Community Plans and avoiding, remedying or mitigating adverse effects and controlling noise. policies seek to maintain and enhance amenity values (and rural character) by that the factors and qualities that contribute to amenity values and rural character [262] Mrs Foster gave evidence that District Plan Objective 14.2.3 and its related She said

in the Rural Area Design Guide.

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consistent with Objective 14.2.3. parts of these valleys, in the terms those are described in the Rural Area Design acknowledged as being inconsistent with the amenity values currently enjoyed in as envisaged by Objective 14.2.3. values of some properties would not maintain and enhance existing amenity Mrs Foster said that unavoidable effects of turbines on the visual amenity and other documents referred to. She said that these She said these effects are therefore not effects have ಕ þe

amenity effects on specific properties the experts and the residents, grouping these by area. planners. Then we move to considering the effects on visual amenity identified by assessment of effects on visual amenity undertaken by the landscape architects and We begin this section of our decision by looking at the more We then look at the visual general

### Visual Amenity Evidence

generally in the range of 1 to 3 km away and highly prominent would occur where turbines are prominent and distinctive features in the landscape, minor feature in the wider landscape, their effects are negligible. Moderate effects tend to [265] Mr Rough considered that where turbines appear as a distant cluster and a if not necessarily a focus in the view. dominate the landscape or are highly prominent, Substantial effects result where turbines with several turbines

photopoints, in his rebuttal evidence and in response to the evidence of the residents properties, including consideration from other parts of the property than shown in the as well as in cross-examination. visual amenities are likely to be moderate and 18 properties where effects would be [266] the heading of private amenity. In his Evidence-in-Chief Mr Rough identified 10 properties where effects There was some change We deal with his property specific analysis under ರ his opinion on the effect on particular On

Mr Mansergh observed that effects vary, depending on the equimber of turbines in the view, screening provided by intervening

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summary table of potential effects on visual amenity values, as follows: topography or vegetation and the elevation of the viewing point. He produced a

Contract to the second contract of the second	Comparative Level of Effect
Ohariu Valley Floor (Ohariu Valley Low	
Road between Ohariu Village and Spicer	
Forest)	
Upper Eastern slopes of the Ohariu Low to Moderate	[oderate
Valley (Ohariu Valley Road between	
Ohariu Village and Johnsonville)	
Ohariu Village (Valley floor) Low	
Ohariu Village (Lower valley slopes Moderate to High	to High
along Rifle Range Road)	
Takarau Gorge Road (North of the gorge)   High to Very High	ery High
Takarau Gorge Road (South of the gorge) High to Very High	ery High
Smiths Bay Moderate to High	to High
Makara Beach (Beach) No Effect	
Makara Beach (Estuary/Inland) High to Very High	ery High
Makara Valley (Between Makara Beach High to Very High	ery High
residential area and Opau road)	
Makara Village Low	
South Makara (Between Makara Village Low to Moderate	oderate
and Makara Golf Course)	

within the visual catchment to the south of the intersection with Takarau Gorge Valley and along Makara Road, would generally be lower than for those other areas [268] between the intersection of Makara Road/Takarau Gorge Road, and Makara Beach. Road. Levels of effect would be higher for houses in and around Takarau Gorge and landscape and visual amenity of private properties at the northern end of Ohariu Mr Mansergh concluded the effect of the proposed wind farm on the

they were not prepared to assess the effects as adverse. residents would depend on their attitude and sensitivity to wind farms. [269] Both Messrs Rough and Mansergh said that the actual impact experienced by Accordingly,

residential activities and landscapes and the turbines could in general be absorbed or limited exposure from Ohariu Valley and the northern Makara Valley. He said that and residential inhabitants largely because of the highly variable and typically quite impact on visual amenity values, particularly those enjoyed by local rural-residential [270] wind farm would generally fit in with the existing pattern of rural and rural-Overall, Mr Brown considered the proposal would have a low to moderate

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turbines F11 and G04. visually accommodated by these landscapes. He made an exception in respect of

audiences, and the table following summarises his conclusions for these areas. [271]Mr Brown assessed a number areas in terms of different viewing points and

Area (and viewing audiences)	Summary of Conclusions
Ohariu Valley – rural-residential	Low to low/moderate effects
inhabitants and road users	_
Southern Takarau Gorge - rural-	With G04 removed, turbines lack
residential inhabitants and road users	sufficient presence to adversely affect the
	residential amenity of local residents or
	the experience of entering and driving
	through the Gorge.
	Visual confluence of Mill Creek and
	West Wind turbines would not generate a
	significant level of actual effect and
	adverse change.
Northern Makara Valley and Makara	Overall effects would be low
Beach - rural-residential inhabitants and	
road users	
Outer Ohariu Bay and Smiths Bay -	Moderate effect on views in general,
sidential inhabitants, visitors and	rising to moderate/high impact on the
boaties	southern shoreline of Ohariu Bay
	F11 would have a significant and adverse amenity effect to the consented bach site
	above Smiths Bay on the Bowen property

above the Niven house and from the McKone/Ellis, Stothard and Mexted properties) cumulative effects, Mr Brown considered that overall the Mill Creek turbines would and slightly elevated farm and lifestyle blocks on the eastern side of the valley (e.g. the main focus for family activity. He said that some residents look from more open peripheral backcloth to the dwellings, domestic gardens, horse paddocks etc that are and/or surrounded by trees, shelter belts and amenity planting (e.g. Horton, Small, course of Mill Creek stream from Ohariu Valley. For the greater bulk of residents view the turbines as rising above and beyond the foreground ridge that separates the exposed to the Mill Creek turbines. He said that most Ohariu Valley residents would visually dominant in any of the views used for Mr Rough's assessment. living near the valley floor (e.g. Plummer), on its western side (e.g. Callaghan) [272]Mr Brown considered that it is western skyline. Ellingham and Morris), he considered the western hills are more of a However, he considered that none of the turbines would be Ohariu Valley that would primarily be In terms of

be viewed from the far side of Ohariu Valley and the West Wind turbines as a distant white stipling

qualitative changes would be in which the turbines are set, how much of it would change and what those the remaining turbines. Mr Brown said he had looked at the nature of the landscape degree of visibility and visual prominence distinguished turbines F11 and G04 from certain view shafts as contributing to a dominating effect. issues of proximity and height above the houses and number of wind turbines in nature of the environment that residents and others are exposed to. He mentioned virtually dominant. The other is that the proposal has to substantially change the high, the turbines have to do two things. One is to be prominent to the point of being referring to In questioning, Mr Brown commented on visual amenity effects of turbines, intrusion and nuisance effects. He said that for adverse effects He considered that their

pylons and the West Wind turbines (although she said some residents may now that the existing level of amenity is high to moderate because of the presence of serenity, natural dark, consider it low). Ms Steven focused on factors relating to people's enjoyment of a place particularly, attractive or pleasing surrounds, spaciousness and, in this landscape, openness. She considered peace, natural quiet and

photos. She used the following factors in her analysis and evaluation of effects: the existing amenity (what views there are and what they are like) illustrated with To analyse the visual impact of the Mill creek turbines, Ms Steven described

- framed view; The location (whether and how much it occupies a prime view, or is in a
- Context the nature of the viewpoint (relates to viewer expectations),
- The degree of visibility of the wind farm facility;
- The visual appearance;
- Its relationship to West Wind (cumulative effect);

Degree of presence of other utility infrastructure (power pylons, masts),

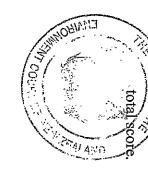
The degree and nature of vegetative screening

noting that its presence affects the impact of Mill Creek as a cumulative effect recorded (not scored) whether West Wind was visible from the same viewpoint, of individual turbines and ranked them from lowest to highest score. In addition she for the proposal. She then used the scores to ascertain the relative visual prominence described as rather crude scoring was to establish an overall visual prominence score turbines present in main views receiving a higher score. distance (on the assumption that there is a reduction in effect beyond 3km) and impact of individual turbines by deducing a value for the extent of the turbine visible, each, would be visible from various view points. Ms Steven then scored the visual As part of her analysis Ms Steven recorded which turbines, and how much of Her analysis included consideration of where a turbine was seen with The purpose of what she

Rough's assessment and the weight he put on a 3 km distance.) potential effect of the proposed turbines on residents. (It also aligns with Mr compared to closer turbines. However, the scoring method assists in assessing the as even within that radius turbines further away potentially have a reduced effect not differentiate in scoring between turbines under 3km in distance from view points, We accept that it is a crude scoring method, particularly given that she

and E06 for Makara residents and F05, F15, E06, F13, F04, F11, F14 and F07 for K01, F14, K03, K02, F11, F10 and F09. In terms of least prominence overall F05 are G01, J02, G02, G03, G04, J01 and E04. For Makara the most prominent are F13, shows that for residents, the most prominent turbines from Ohariu Valley (in order) Ohariu residents [278] Ms Steven gave evidence that her analysis of visibility from 57 viewpoints F15 scored well followed by F06, F04, F07, F03 and F09, with F05, F15, E07

₁ when they score because they are seen by fewer people, although F13 and F14 score highly G04, G03, J02, K01, G01, E04 and E05. The F turbines and J01 and E04 drop off in Overall Ms Steven found the most prominent turbines in order to are seen. Ms Steven considered it useful to consider both the area and



impact on residents and (by extension) visitors to the area proposal would have widespread visual effect, with most turbines having a visual level of acceptability. However, she considered that the scoring exercise showed the be acceptable and those not because each resident affected would have their own [280] Ms Steven said it was problematic to draw a line between turbines that would

turbines, summarised in the following table: [281] Ms Steven arrived at an overall conclusion as to the visual effects of the

Area	Overall Conclusion
Makara Stream Valley	Significant adverse effect on amenity
(Samuelson, Kessell-Haak, Easther,	
Fenaughty, Christensen, Bowen, Cudby,	
Webber, Poehls, Thomas)	
Takarau Gorge Residents	Significant adverse effect on amenity
(Joseph, Cooper, Hawkins, Wallis)	
South Ohariu Valley Residents - Takarau	Significant adverse effects on amenity
Gorge Road	
(Morris, Phillips, Third, Horrobin, Hume,	
Burdan, Mexted)	
Central Ohariu Valley Residents	Significant adverse effects on amenity
(Baker, Johnson, Callaghan, Small,	assuming views of the western ridge are
Conder, Pennington, Stothart, Harley,	desired to be maintained or created
Horton)	AND THE PARTY OF T
Northern Ohariu Valley Residents	Significant adverse effects on amenity  Primarily due to cumulative effects
Other Residents	
Crestini	Moderate adverse effect
Ells	Significant effect on amenity (or
	potentially substantial)
Bowen Cottage	Substantial effect
Robbers Hoehn	Significant cumulative effects

 $\frac{1}{100}$  find such a blanket approach helpful as distance is only one factor to be taken into numbers that were discussed during the course of the hearing. In any case we do not a turbine in a supplementary response to pre-circulated questions put to him by identify the number of properties in particular locations that would be within 2 km of the West Wind and Motorimu Environment Court decisions. Mr Rough attempted to Makara Guardians. emphasised a 2 km distance from turbines as an important line, probably drawing on [282] We note that the cases for the residents of Makara and Ohariu Valleys when assessing the impact of turbines. ng the effects of turbines on private amenity. However, we are not confident about the accuracy of the We do bear it in mind when

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#### In summary

assessment was undertaken at a more general level. witnesses were only prepared to state that people's reactions to seeing wind turbines although Ms Steven determined these effects to be adverse and the other two described by groups of private residents between Messrs Rough and Mansergh and Ms Steven, [283] There was some concurrence about the degree of effects on individuals and Messrs However, we heard from a number of residents that such effects as Rough and Mansergh would be adverse. ĭ Brown's

properties on valley slopes with an elevated view of the wind turbines screening by trees. properties on the valley floor may be low, slight or moderate, frequently due to [284] The witnesses agreed that generally the visual effect of the turbines They agreed that the effects would be generally greater from

exists it may not be maintained or its maintenance is outside the control of the turbines by vegetation would be hard to achieve from some locations, and where it intersection and Makara Beach. are mainly in or close to Takarau Gorge Road in Ohariu Valley and in the Makara landowner (on the road reserve, under power lines or on neighbouring property). Stream valley along the length of Makara Road between the Takarau Gorge consideration of the cumulative effects with West Wind turbines. Those properties on which effects would be substantial, significant or high to very high, including [285] Messrs Rough and Mansergh and Ms Steven agreed that there were properties There was agreement that further screening of

effect of Mill Creek with the West Wind turbines some extent that disagreement arose because of differing views as to the cumulative by the turbines to a significant extent than did Messrs Rough and Mansergh. Ms Steven considered that many more properties would be adversely affected

should be declined. Mr Brown did not concur for turbines F11 and G04. effects of the turbines were not be of such a magnitude that consent to the proposal Commissioners at first instance removed F11 and G04.) We return to issues around [287] Messrs Rough, Mansergh and Brown largely agreed that the visual amenity

the succeeding sections of this decision. F11 and G04 and potential mitigation suggested by Messrs Rough and Mansergh in

# Private Viewpoints and Visual Amenity

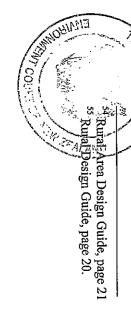
incompatible with planning guidelines the community had agreed with the Council. of OPS) suggested that the presence of turbines in the density proposed would be to what was important to them in terms of their amenity. Ms S Lilley (the President [288] We heard from a large number of residents of Ohariu Valley and Makara as

Ohariu Valley community<sup>54</sup>: [289] The Rural Area Design Guide records the following Qualities valued by the

- Clear skylines.
- Quiet and serene.
- disturbing others. A quiet peaceful place where people can do their own thing without
- A farming area.
- Natural surroundings.
- Low levels of population and development.
- Housing in moderation (not on show but tastefully hidden behind
- Rolling hills, peaceful sounds, farming, horses.
- Beautiful, calm, serene, green.
- Horses, sheep, cattle and birds.
- streams, trees Fresh air, calm, green, ridgelines, hills and mountains, water and
- smaller subdivided blocks now common in other areas Mainly open rural landscape uncluttered by large houses on

community<sup>55</sup>: The Rural Design Guide also contains Qualities valued by the Makara

- Quiet and peaceful atmosphere.
- The ridges sense of place.



- The gorse plus bush personality.
- The roughness natural, unaffected.
- The views from hill/road escape.
- Rural and recreational
- Farming/lifestyle community.
- Rural, bush, sea, horses, ruggedness, escape
- Rural atmosphere, peaceful outlook and views, unspoilt hills and
- The mixture of landscapes.
- Open space, lack of people and structures.
- Birds, animals, sound of stream running through the valley
- The coastal escarpments, the beach, the views from the tops of the
- Sense of isolation in contrast to the city.

that the environment of those areas now includes the West Wind turbines. statement of what the Ohariu Valley and Makara communities value. We accept the Qualities described in the Rural Area Design Guide We also note

informed by the evidence of the landscape witnesses. considered it in this decision. number of residents of these areas. of Ohariu Valley and Makara. We have divided the area affected into several parts, [292] We now consider site specific effects of the Mill Creek turbines on residents in and cross examined. Their evidence is Not all of these witnesses were required to be We received evidence from a still relevant and we

residents. The mere fact of hearing a wind turbine was of concern to many residents. an aspect of amenity which was at the forefront of much of the evidence given by (we have addressed that elsewhere in this decision) but we acknowledge that noise is [293] Our considerations in this section do not address noise impacts on residents

ELLSO, too was the sight and sound of a wind turbine when working in, and enjoying, the pors not just close to but also distant from houses.

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## Northern Ohariu Valley

already (9 red aviation lights visible in what used to be a clear sky) with a further 6 proposal went ahead, with the Mill Creek turbines added to the West Wind turbines lights to be added. visible along the skyline. J02 at 2802m on PPT<sup>56</sup> 108a, and 2840m on 108b and 108c) and Ms M Livingston, [294] Ohariu Valley Road. We heard from Ms P Searle 614 Ohariu Valley Rd (the closest visible turbine Ms Searle complained of light pollution of night sky Their concern was for the loss of rural outlook if the

by the residents of what some described as a rural cul-de-sac horses along the road. safety, some had a concern about horses in horse arenas and the ability to walk effects as traffic effects, but note their implications for the amenity currently enjoyed value of the trees along the roadside with the road widening. formation of the road as well as its use for construction traffic. The residents in this area raised concerns about construction effects, Some residents raised concerns about the loss of amenity We deal with these Besides pedestrian

of both wind farms, with both remaining subservient components of the visible white stipling. to the proposed turbines and the northern tail of the West Wind turbines, a the Mill Creek site from the far side, or end, of Ohariu Valley with limited exposure relation to properties to be quite limited. He said they typically look toward towards landscape from the northern end of Ohariu Valley, he considered the direct level of effect in [296] Mr Brown said that while it would be possible to see the proposed turbines He said there is a clear change in scale as seen between the turbines

eastern slopes would experience moderate effects with Mr Mansergh also considering some properties (unspecified) on the upper visual amenity of five of the properties in this area (including the Searle property), [297] Mr Rough considered that the turbines would have moderate effects on the

GEAL OF the closest visible turbine J02 at 2851m on PPT 109), Plummer at 876 Ohariu [298] Ms Steven gave evidence that the Searle, Niven at 626 Ohariu Valley Road

PPT (number) is a Photopoint referred to in the Graphic Attachment of R Maunder 30 July 2010.

occupy the low point on the horizon, with the West Wind turbines visible distant Makara hills are the visual focus because they are the most distant part and the Ohariu valley, framed by the ridges to the west and the Bests Ridge and Te at 3565m on PPT 101) properties have views west along the hillside facing and down Wharangi ridge to the east, with its pastoral farmland character. Valley Road (E07 at 4099m on PPT 155) and Ells at 289 Ohariu Valley Road (G01 She said that the

the immediate house areas and also that the Plummers have existing pylons crossing their view She accepted that at the Plummer and Boyd properties, trees prevent views out natural open skylines. Wind so that turbines would become a significant component of the view rather than the top of the enclosing ridge to the right of the view, adding to the effect of West Ms Steven considered turbines would be seen in two groups spread out along She said the G series turbines would be the most prominent.

moderate for some of the properties on the upper eastern slopes between Ohariu Village and Johnsonville. Mr Mansergh considered the potential effects on visual amenity to be low to

properties, even with the West Wind turbines visible in the distance effects on private amenity overall would be low to at most moderate from some We conclude that for Northern Ohariu Valley, the potential adverse visual

Central Ohariu Valley Residents (includes Rifle Range Road area)

moved to the Valley. lives and they would not be able to continue to live the lifestyle for which they PPT 110) would disturb the visual amenity and the peace and tranquillity of their Ohariu Valley Road, that the turbines (the closest visible turbine E07 at 3846m on We heard from Mr A MacKenzie who lives with his wife on 3 hectares at 830

wisible turbine from the cottage deck G01 at 2415m on PPT 125a and from the top already be seen from her property. on it), [303] f the house E08 at 2545m on PPT 125b) to the West Wind turbines that can had a concern about the addition of Mill Creek turbines (with the Ms A Conder of 20 Rifle Range Road (a property with a house and a cottage She considered that turbines G03, 04 and J1

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obscured by trees on neighbours' properties which are beyond the Conders' control. She also had concerns about views from upstairs in the main house would be dominant and turbines E04, 05, 06, 07, 08 and G01, 02 and J02 are partly

potential retirement cottage site further west, although there is no detailed design or resource consent for this 3854m on PPT 151). A concern for the Stotharts was the effect on views from a southwest and northwest. cumulative effects to be to be moderate, an assessment with which the Stotharts took issue, considering the Mr Rough considered visual amenity effects of the turbines on the Stothart property horse training and agistment business on 25 hectares and has a view looking west. [304] Mr P Stothart has lived at 60 Rifle Range Rd for over 11 years. He runs a substantial due to further loss of visual amenity to the (The closest visible turbine to the house would be E07 at

turbines would be too. opportunity and quiet, natural rural outlook and views, access to Makara Beach and coastline and house on PPT 152.) A large number of West Wind turbines are visible from her property and Mill Creek Wellington. lifestyle block. Mr J Baker and Ms L to run a lifestyle farming block and be within 20km of family in She said that turbines would be an unwanted and unwelcome intrusion. Ms Jenkin gave evidence that they live in the valley because of peace (The closest visible turbine G01 is 2014m from near the Jenkin, 51 Takarau Gorge Road, live

where there would be uninterrupted views of the turbines. areas would be substantial, as indeed it would be from locations away from the house wind farm site were removed, then the visual effects from the house and adjacent some properties. He said that for the Stothart property, if the trees that presently screen view of Conder properties. substantial and moderate effects from the turbines on the visual amenity values of [306] In his evidence in chief, Mr Rough acknowledged that there would be both Those properties with substantial effects were the Horton and He added the Baker/Jenkin property to that in cross-examination.

EVERTIES A Mr Mansergh gave visual amenity at Ohariu Village (lower valley slopes along Rifle Range evidence there would be moderate ರ high potential

be seen spread, with the G series turbines appearing to be on it. pastoral to wooded backdrop and long natural skyline, along which Mill Creek would West Wind turbines. Ms Steven opined that the ridge to the west forms an open Baker/Jenkin's view lower and obscured by trees although they can still glimpse She also said the same view is enjoyed from the Johnson house, with the residence and she considered it a very attractive view (notwithstanding West Wind). Wind turbines seen on the skyline. This is the main and sunset view for the Harley valley looking south, framed by the Te Wharangi ridge to the east and the ridge to have similar general outlooks with an expansive, slightly elevated view of the Ohariu [308] Ms Steven considered that the Baker/Jenkin, Johnson and Harley properties She said that the hills at Makara fill the valley at the far end, with West

small cluster, visible from the drive to the house, with a hedge at the house blocking views of the skyline and the proposed turbines on it. valley, with a view of West Wind at the end. A few turbines would be seen in a closest visible turbine is J02 at 2219m on PPT 112 AS) similarly looks out down the [309] Ms Steven said that the Callaghan property at 20 Takarau Gorge Road

ridge as if they were sitting on it. Steven considered that the Mill Creek turbines would be visible along the ridge as at first storey level, West Wind turbines are seen from the Conder property. typically framed by trees. However, she said that views of the ridge are possible large spiky skyline elements and the G series would appear oddly over the south Road with J02 at 2636m on PPT 150a) and Horton (at 415 Ohariu Valley Road with closest visible turbine G01 at 2379m on PPT 144), Pennington (at 11 Rifle Range [310] Ms Steven gave evidence that the Small (at 10 Rifle Range Road with the at 3139m on PPT 102) properties close to the valley floor, and to a lesser degree Conder property, are in more enclosed landscapes with limited views

and north, with West Wind turbines on the Makara Hills visible at the end of the like an [311] The Stotharts have a view southwest across the Ohariu valley as well as west extension of West Wind. She said that a significant part (about half) of the Ms Steven considered the Mill Creek turbines along the ridge would seem

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trees planned by the Stotharts. significantly from its open and natural character, with the removal and thinning of West Wind Callaghan property the impact would be mitigated by the hedge and the presence of ರ the southwest and west would have turbines visible, Ms Steven did not agree with Mr Rough that for the detracting

Central Ohariu Valley residents, and particularly those in the Rifle Range Road area. visual amenity for views to the western ridge from elevated properties for some [312]That would add to the visual effects of the West Wind turbines We conclude that the proposed Mill Creek turbines would cause

# South Ohariu Valley (Takarau Gorge Road)

for cycling training and as a keep fit circuit, as well as a scenic drive dwellings, power lines, pylons and shelter belts that typify NZ's rural amenity. Wellington City. He also referred to the use of the Gorge road as a recreation loop scattered pockets of bush, farm implement yards and sheds, water storage tanks, and west that is largely dominated by rounded ridge tops containing, pasture land, described a quiet tranquil valley with views from the valley floor to the north, south Mr R Jarratt purchased his property at 231 Takarau Gorge Rd in 1999. are no other pockets of rural settings remaining this

maximise light and warmth, open valley and ridgeline views and sunsets, would be turbines movement. dominated by turbines. available. and west of the community and that the majority of the community lives in the valley [314] Mr Jarratt said that turbines would be located on exposed ridges to the north or on rising slopes across the valley floor where the best sun and views He said that some properties already have views impacted by West Wind Living areas within houses, predominantly facing north and He had a concern that the eye would be drawn to blade

on road reserve, growing under 11 kVA power lines) would be removed, as it could  $\frac{1}{160}$ fidgelihes directly in front of his lounge. He said the closest turbines are in the G [315] Mr Jarratt had a concern that the screening vegetation (on adjoining land and

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series, although these are screened by vegetation. PPT 140 shows the closest visible turbine as J02 at 2985m.

km already a major detraction. The nearest visible turbine G04 at 1524m is shown number of Mill Creek turbines, with the closest existing West Wind turbines at 4.4 expansive rural views and feel of the area. From his house, he would see a large [316] looking on to the Mill Creek site. Road. He said that he moved to the 6.5 acre property in 2005 for a quiet relaxed Mr Phillips said that part of living in Ohariu Valley is to experience Mr C Phillips. has a home business on his property at 335 Takarau Gorge The property faces northwest, with the main living and kitchen area There is a fertiliser bin and power pylon in

would experience moderate effects. Those properties with substantial effects were: prominent turbines, generally in the range of 1 to 3 km away. Some other properties Ħ his substantial Evidence-in-Chief, Mr Rough said that several properties effects on visual amenity values from several highly would

- 209 Takarau Gorge Road (Burdan) 2284m to the nearest visible turbine
- 252 Takarau Gorge Road (Third) 1491m to G01 on PPT 118.
- 335 Takarau Gorge Road (Phillips) 1524m to G01 on PPT 119;
- 91 Takarau Gorge Road (Mexted) 1875m to G01 on PPT 138; and
- 183 Takarau Gorge Road (Horrobin) 1117 m to J01 on PPT139.

negligible from PPT 119 taken from close to the house and its surroundings Phillips property was taken were not topped or removed the effect would be Mr Rough said that if the trees which had grown since the base photograph for the

high to very high effects on visual amenity values in this area Mr Mansergh's evidence was that Mill Creek turbines would potentially have

their outdoor spaces oriented to the west and north. M CF Towould have views of a large cluster of turbines on the skyline on the west/northwest girectly in front of their houses. This was the main outlook for these properties with [319] Ms Steven gave evidence that the elevated Phillips and Morris properties Ms Steven said that two pylons

distracting and discordant on the skyline would have visually overlapping turbines added to them. The turbines of variable spacing with unsynchronised rotation action and that would be

neighbour retaining the trees. was part of their main outlook. (The closest visible turbine is G01 at 1491m on PPT of turbines would appear close over a tree covered part of the ridge to the west which 118b). The trees obscuring parts of some turbines are mostly on a neighbour's [320] Ms Steven said that at the Third property at 252 Takarau Gorge Road a group screening of more turbines to the northwest dependent on

by knobs and indented gullies, merging with long even ridgelines. panoramic outlook from the proposed building site, with a long skyline punctuated deeper view up a valley to the west. that the turbines would be seen continuing across a distant ridge at the back of a along the ridge with the closest (G01), 1117m away (on PPT 139). Ms Steven said the western ridgeline looking at an open pastoral view. Turbines are to be placed [321] The Horrobin building site (139 - 183 Takarau Gorge Road) faces directly at She described the western ridge as a main

which is on the road reserve large number of other turbines would be visible if it were not for vegetation, much of Road one turbine (G01) appears very close (1621m on PPT 117). She said that a [322] Ms Steven said that for the Hume/Ellingham property at 213 Takarau Gorge

west but some trees are scheduled for removal because they interfere with a power skyline on the left side of the view. Vegetation on and off site obscures views to the of the natural skyline to the west, where a cluster of turbines will be seen on the view primarily to the north because of existing tree planting but there is also a view [323] Ms Steven gave evidence that the Burdans at 209 Takarau Gorge Road have a (The closest visible turbine is E08 at 2284m, PPT 116.)

[324] across Te Wharangi ridge are part of the existing landscape Ms Steven acknowledged that for some of the properties described, pylon

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the top of the property, and two pylon lines of the HVDC line are visible crossing the said that the pylon lines are a notable element on the flanks of Te Wharangi ridge at would be visible as is the case with West Wind turbines at the end of the valley. prominent G series, would be seen along the lower southern half of the ridge and western ridge 1875m on PPT 138.) would appear closely connected to West Wind. (The closest visible turbine is G01 at sunset corner. north. The skyline draws the eye to the low point on the horizon to the north and the Road, the outdoor patio and living areas are oriented to the ridgeline to the west and [325]Ms Steven identified that from the Mexted property at 91 Takarau She said that a number of Mill Creek turbines, including the From viewpoints higher on the farm, more wind farm turbines

turbine G04 at 1432m on PPT 120) properties. the Hume/Ellingham and Morris (341 Takarau Gorge Road with the closest visible Ms Steven took issue with Mr Rough's reliance on screening from trees

also applied to the Mexted property with its more wide open view to the western visual presence to generate a sense of intrusion or nuisance. Phillips properties, turbines would not be sufficiently prominent nor have sufficient number of properties, specifically referring to the Callaghan, Burdan, Mr Brown gave evidence that although clearly discernible in views from a He said that this opinion Third and

ridge from more open and elevated viewpoints on various properties. floating on top of the ridge (as they were described by Mr Brown) scale element commensurate with existing elements such as trees or a fine filigree agree that the turbines do not intrude or dominate, nor that they register as a small backdrop. Brown, whilst acknowledging that the hills were central to the perceived character likely impact on residents' views in this part of Ohariu Valley. [328] Ms Steven considered that Mr Brown had significantly underestimated the amenity and the value of the sunset ridge, assessed them to be a recessive She said this did not take into account the expansive views of the western She said that Mr She did

discussing would be adversely affected by the Mill Creek turbines to a significant

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extent, notwithstanding their properties already have views of West Wind turbines. effect and would have a dominating effect on many residences in this area The G series of turbines would make a major contribution to that significant adverse

## Lower Takarau Gorge

said that they wanted to build further up Takarau Gorge Road, mainly to get away from West Wind 2006 they bought an additional 155 ha adjoining their original block. Mr Hawkins Road). Their home is on a 63 ha block which was purchased about 12 years ago. In also subdivided two further sections to the north (now 569 and 591 Takarau Gorge Mr P and Mrs S Hawkins currently live at 731 Takarau Gorge Road, but have

no visible turbine shown on PPT 141 which is the view of Mill Creek from the noise vibration elsewhere on the property where they can see turbines. While there is spoke of their experience with sunflicker from West Wind. Mr Hawkins described particular concern about turbine G04, which will be prominent. house, trees on the land opposite have now been removed. Mr Hawkins had a Creek introducing further 7 partial or full views of turbines with the closest at 2.2 full views of 17 West Wind turbines (2.2km from the closest turbine) with Mill [331] Mr and Mrs Hawkins gave evidence that their existing house has partial or They would see even more turbines from higher up on their property.

reasonably asked why they should have to do that and whether screening would work buildings and screen planting of vegetation on 569 and 591 Takarau Gorge Road wanted to know why anyone would want to plant trees on the sunny side of a house. would reduce the effect of the turbines on these two sections. 1158m on PPT 129. Meridian witnesses suggested that strategic positioning of new The nearest visible turbine from 569 or 591 Takarau Gorge Road is height and proximity of the turbines, particularly G04. The Hawkins

SUAL OF modified, the turbines are distant, and there is a section of ridgeline left in the middle [333] Mr Brown considered that because the existing landscape cept G04). However, he concluded that there would be a significant cumulative Ŋ.

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other residential location. Ms Steven considered it is the cumulative effect that is the sequences of turbines north and south of Makara, potentially greater than for any effect from some locations where views to the west would embrace two different most significant here

amenity values: Mr Rough assessed several properties as receiving substantial effect on visual

- properties) the nearest visible turbine is 828m to G04 on PPT 127 and 1158m to G04 on PPT 129, respectively; 569 and 591 Takarau Gorge Road (the new subdivision on the Hawkins
- visible turbine-F13 on PPT 142b; and 669 B Takarau Gorge Road (the Joseph property) – 1868m to the nearest
- turbine as at 2857m). 122 (although Mr Rough's EIC Schedule 6 table refers to the nearest 755 Takarau Gorge Road (the Cardno property) – 2149m to G04 on PPT

of properties Creek turbines would have high to very high effects on amenity values on a number Mr Mansergh's assessment for Takarau Gorge Road (South) was that

noted that the view to the south is already compromised by West Wind turbines sections but turbine G03 appears right behind it and Ms Steven considered the Kaukau to be important, with Mr Rough considering it to be peripheral. Ms Steven together to be prominent. Mr Rough assessed only turbine G04 to be prominent from the Hawkins' She also considered the view up Ohariu valley to Mt

southwest to the northeast in a wide sweep, taking in the lower Ohariu Stream valley She said that from the new Hawkins' sections, the natural outlook ranges focussing on the high points at the north where the G series turbines are situated. crowning the skyline at the high end of Ohariu Stream valley, the preferred view, with an elevated position, a cluster of turbines and parts of turbines would be nd the Takarau Gorge. orthern section Ms Steven gave evidence that from properties in the lower Takarau Gorge G04 and G03 would appear very close and prominent on the

a valley and does not see either wind farm, except from the driveway and the ridge to She said that while the HVDC line is partly visible on the skyline it is insignificant turbines and their unsynchronised rotor actions would be distracting and discordant. ground to the north, with a gap between the two wind farms on what she described as the southwest and much of the Mill Creek wind farm would be seen across the higher number of West Wind turbines along a ridge only about 2.5km to the south, with compared to the turbines a less distinctive ridgeline. the north. West Wind turbine B02 noticeably out on its own to the right. The Wallis house is [338] Ms Steven said that the Hawkins (existing house) and Wallis properties see To the north of the house West Wind turbines are seen on the skyline to She considered the visually overlapping nature of the

we found on our most recent site visit) and from other parts of the properties visual impact for private residences, the building sites (one of which is now built on, We agree with Ms Steven that the G series contribute to a significant adverse

### Makara Valley

in Ohariu Valley and elsewhere to experience what they had experienced from West on their use of their properties from Mill Creek but said they did not want residents of West Wind turbine noise on their enjoyment of their properties. Many expressed a the turbines. Many of the residents would not directly experience any adverse effects fact that they move around their properties and do not stay inside or directly outside concern that the assessment of the landscape architects did not take into account the [340] Most of the Makara residents we heard from gave evidence about the impact Several said they no longer enjoyed gardening because they could hear

the river at the centre of his property. Mr Easther wants consent to 13 turbines declined on the basis that adverse effects cannot be contained within the wind farm Road. There is a house by the road and paddocks extending across river flats with His concern was that his property rights would be taken without compensation. Mr J Easther is located between West Wind and Mill Creek at 910 Makara his existing house and plans for other houses on the site consents for other houses have been granted) would be adversely affected (although no

affected by a similar number of West Wind turbines by turbines F08-11, F13-14, L01-02, K01-03 and G01-04 and that he was already

peri-urban area used extensively for recreational purposes by city dwellers. this was not a development in a remote area affecting a few farmers. considered the skyline to the north of his proerty would be dominated by the Mill 1.8 km away but we had no photosimulations of his property to verify that. [342] Mr Easther said that the nearest turbine to his house would be approximately In his view the wind farm would be inappropriately located within a He said He

entire height, a dominant feature of the main view to the north that from their current house turbines F13 and F14 would be seen virtually in their particularly with a turbine F11 being only 175m from the farm boundary. concern was that Meridian is using their farm as a buffer around their turbines, farm would share approximately 2.4 km of their northern/eastern boundary. nearest turbines of West Wind and Mill Creek. She said that the Mill Creek wind [343] Mr J and Mrs K Bowen (s274 parties) have lived at 1000 Makara Rd Bowen gave evidence that they see West Wind turbines from the top of She said that their 145 ha farm, makes up most of the gap between the She said

intentions for Mill Creek were public knowledge but before the resource consent lines which detract from the sense of isolation and wilderness of this area the land to the north east of the site was characterised by high voltage transmission was not proposed to occupy the cottage on a permanent basis. application was made. This was approved on a non notified basis in 28 March 2008 after Meridian's plans located at the top of the barren, windswept escarpment above Smiths Bay. [344] Mrs Bowen gave evidence of a consented house site with approved building The AEE forming part of the Bowen application stated that it It was also noted

sand her husband enjoyed the openness of the site and that planting to mitigate views window would look to the east towards the turbines. cottage site. views to the north and east. Mrs Bowen said that the house site would be totally dominated by turbines turbines would result It was planned that large doors would open to the north and the kitchen Turbine F11 would be situated only 540m from the in the loss of sun and views. Mrs Bowen advised that she Meridian suggested

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away from the turbines and we think that is correct also suggested that the primary view from any cottage would be more likely out to sea inhospitable witnesses referred to the challenges in growing screening vegetation in such an screening possibilities but Mrs Bowen would have none of it. location in any event and we agree with those observations. Some of the landscape was

1940 and would be adversely affected by views of the turbines [346]Mrs Bowen said the 10 baches at Smiths Bay on their property date from pre-

and nuisance proximity and scale meant that F11 would create a very real perception of intrusion significant adverse effects on the Bowen cottage site, even accepting that the site and were not unacceptable, that was not the case for turbine F11 which would have Brown considered that on a macro level the effects of the turbines from this quarter evidence that this modified backdrop was dominated by pastureland and that the landscape would retain its underlying form patterns and textures. form the backdrop to this area. insubstantial elements above the substantial landforms in the wider landscape which [347] Mr Brown concluded that the visible turbines would appear to would be orientated towards He made the point as he had done elsewhere in his the sea. He stated that the Although Mr float as

[348] visual amenity of several properties: Mr Rough considered that the turbines would have a substantial effect on the

- 879 Makara Road (the Samuelson-Sandvind property)-2548m to F13 on PPT 153;
- 952 Makara Road (the Christensen property) - 1803m to F13 on PPT
- 1011 Makara Road (the Webber property) 1370m to F13 on PPT 143;
- also the Bowen cottage site 543m to F11 on PPT 168; 1000 Makara Road (the Bowen house) – 1414m to F13 on PPT 146 and
- 1012 Makara Road (the Phoehis property) 1316m to F13 on PPT 157;



to moderate for South Makara (between Makara Village and Makara Golf Course). (estuary/inland) and between Makara Beach residential area and Opau road and low [349] Mr Mansergh's assessment of to high for Smiths Bay, high to potential effects on visual amenity very high for Makara Beach

amenity effects would not be major. evidence in response to questions from Makara Guardians, demonstrating that visual views of the coastal edge and across the water. the coast. He considered visual amenity effects would be predominantly drawn from more seaward baches in Smiths Bay, generally these buildings are oriented towards of the F series turbines can be seen at the head of Smiths Gully and from some of the of the undeveloped rural landscape to the north. He said that while the upper portions of the K, L, E and F series would have a moderate to high degree of impact on views valley. From the houses in and around 1000 Makara Road, he considered that views appear clustered on, or just behind, the skyline saddle at the head of the Mill Creek Mr Mansergh gave evidence that for a number of houses, turbines Mr Rough gave supplementary

wind farms, from viewpoints on the north side of the valley from some properties closest to Makara Beach. would appear close (1-2 km away) as would the K series in some views (2-3km prime views, be varied in height and scale and have unsynchronised rotation action turbines would appear as a reasonably tight spiky cluster occupying the centre with distracting and discordant effect. spurs of Makara Stream valley on the other. In her opinion in these views, the out to sea with the view framed by the Makara hills on one side and the nearer hill she assessed. and only view towards the turbines for all but two of the residents whose properties [351] Ms Steven said that turbines would be seen clustered in the centre of the main Ms Steven said that blade tips would disrupt skyline views of the residents The turbines would occupy the part of the skyline which was the focus of She said that those at the western end of Makara Valley can also look She referred to a sense of being sandwiched between two She considered the southern-most F

ि around 1000 Makara Road) which would see the southern most turbines of the wind farm, we accept the views of Messrs Brown and Rough that the topography of this  $\begin{pmatrix} \mathbb{R} \\ \mathbb{R} \end{pmatrix}$ While there are a number of properties in this vicinity (such as the cluster

affected by Mill Creek not generally being significantly affected by West Wind sense of being sandwiched between the two wind farms, with those residences are not prominent to the point of being visually dominant. The enclosed nature of the topography largely restricts views of the turbines which area is such that the turbines would not have an unacceptable impact on the residents Nor do we find there is a

## Overall Evaluation

private amenity of residents. turbines to the West Wind turbines. to have a view of turbines, to maintain Ohariu Valley as it is and not to add further We have looked in some detail at the evidence on the potential effect on the We accept that many of the residents would prefer not

the wind. Turbines are always going to be an obvious presence in their environment. outcome of their size, numbers and positioning on exposed sites in order to harvest introduction of wind turbines will bring change to peoples' amenity. nil to substantial. evidence in commenting on his assessments of visual effects as being in a range of We consider that Mr Rough made a highly pertinent point in his rebuttal an assessment of the degree of change to amenity. A substantial effect is not necessarily a substantial adverse effect It is inevitable

falls into that category will bring. However, we do not find that the amenity of this typical rural landscape amenity in question is such that it ought not be subject to the change which turbines [355] There will be situations where the nature, quality or significance of the the

LOF 14 find that although the Mill Creek turbines will become a highly visible component of THE SALE dominance was neatly described by Mr Brown as a turbine creating a very real dominate the amenity of any particular residents. We consider that the concept of proximity, elevation, position and screening and the extent to which they combine to as West Wind and Motorimu. For Mill Creek that will relevantly include issues of perception of intrusion and nuisance. to have regard to the factors which the Court has previously identified in cases such environment, they would not have a dominating effect on private amenity for ocations. There are however obvious exceptions to that. In determining the amenity impact of the Mill Creek turbines it is necessary Based on the evidence which we

these building platforms.) platforms. because of its adverse effects on the recently approved Hawkins' lots and building [357] The Council Hearings (We noted that between our two site visits a house was placed on one of Commissioners declined consent to

significance of change.) properties throughout the valley. on several properties in the Takarau Gorge area and moderate effects on Mr Rough assessed some or all of those turbines as having substantial effects (We have noted that his reference was to the many other

prominent referring to the clusters of turbines and close proximity of views [359] Mr Mansergh recognised that the G series turbines would be highly

relation to no. 591 and almost loom over no.569 $^{57}$ only 820 m of separation. [360] Mr Brown noted the dominance of turbine G04 from a Hawkins' site with He described this turbine as being...very prominent in

just in her visibility analysis, but in her analysis of effects on individual properties in the apparent closeness of the turbines to the Third property. combined effect of turbines G03 and G04 when viewed from the Hawkins' lots and in this vicinity. proximity of the ridge on which these turbines are situated to houses and properties the various parts of and throughout Ohariu Valley. [361] Ms Steven specifically singled out the adverse effects of these turbines, not She identified the prominence of all four of these turbines, the This is not surprising given the

adverse effects on a number of private properties in their vicinity [362] We conclude that turbines G01, 02 and 03, as well as G04 would have major

## Planning Documents

SEAL OF 363] Statement 1994, the operative and proposed Regional Policy Statements, the regional We have already alluded to the provisions of the New Zealand Coastal Policy

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plans and the District Plan all contain relevant provisions. We have already referred to most of those that are at issue.

potential benefits of wind energy which need to be considered and weighed although none of these are unqualified and recognise there are matters other than the 25 (Renewable Energy) as well as the assessment criteria of Chapter 26 (applying to application include: Chapter 14 (Rural Area), Chapter 16 (Open Space) and Chapter which seek to encourage the use and development of wind energy in the Rural Area, wind energy facilities). The District Plan provisions which have to be considered in evaluating There are objectives and policies in Chapters 14 and 25

# The District Plan's assessment criteria for wind farm applications include: 26.3.1.3 The visual effects of the proposal, including:

- The extent to which the proposal will impact on rural character,
- The extent to which the proposal will be visible from residences, key public places including roads, and recreation areas.
- The relationship of the proposal to the Ridgelines and Hilltop
- The visibility of the proposed development;
- character of the coastal environment, including on cliffs and The extent to which the proposal will impact on the natural coastal escarpments;
- The extent to which any aspects of the proposal can be sited underground;
- proposal as a whole. turbines, their height The scale of any proposed development, including and the cumulative visual effects of the the number

# [366]Other matters which are to be taken into account include:

- The actual or potential noise effects of the proposal (26.3.1);
- TOO TO THE PARTY OF THE PARTY O <u>ن</u> The extent to which the proposal will affect the amenity values omminities (26.3.1.2); noise) of the surrounding environment with particular regard to the on residential locations including potential nuisance effects on (other

- management plans can be implemented to mitigate effects (26.3.1.5); Effects of traffic and vehicle movements and the extent that traffic or site
- surrounding land use (26.3.1.7); Extent to which the proposal will impact on landscape features and the
- (sic) the Rural Design Guide (26.3.1.10); and the extent to which the proposal is consistent with any relevant aspects if
- the benefits to be derived from the proposal, including its contribution to Central Government energy objectives and renewable energy targets

We have already addressed these matters in the course of our decision.

determinative of the proposal one way or the other our decision. We have considered the relevant provisions of these documents in arriving at We find there is nothing in any of the planning documents that is

#### Other. Matters

Acoustics – Wind farm noise. We have already referred to the New Zealand Standard NZS6808:2010 -

recent District Plan changes, affecting the weight we should place on them. provisions of the community plans and documents were carried through into the and other Wellington City Council documents. [369] We had regard to the Makara and Ohariu Community Plans, Capital Spaces We recognise that not all the

Zealand Energy Strategy to 2050 and the proposed National Policy Statement for [370] *Protocol*, the Rénewable Energy Generation (giving the latter little weight because of its status. 58) We have also considered New Zealand's obligations under the NewZealand Energy Efficiency and Conservation Kyoto New

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<sup>58</sup> The now operative National Policy Statement for Renewable Electricity Generation was not before

### Part 2 Matters

physical resources. Sustainable management is defined in the RMA in these terms<sup>59</sup>: consider whether consent should be granted for the wind farm in whole or in part. That requires us to determine whether or not granting consent achieves the purpose [371] In the light of our findings in the preceding sections of this decision, we now Act, namely the promotion of the sustainable management of natural and

safety while their social, economic, and cultural wellbeing and for their health and way, or at a rate, which enables people and communities to provide for development, and protection of natural and physical resources in a In this Act, sustainable management means managing the

- (a) Sustaining future generations; and (excluding minerals) to meet the reasonably foreseeable needs of the potential of natural and physical resources
- 9 Safeguarding the ecosystems; and life-supporting capacity of air, water,
- 0 Avoiding, remedying, or mitigating any adverse effects of activities on the environment

scalecision we must seek to manage the use, development and protection of all of these resources and in doing so must consider the provisions of s6, 7 and 8 RMA. land surrounding the wind farm site and the residences and other improvements resource<sup>60</sup> as is the land on which Meridian wishes to construct the wind farm, the which The wind which will drive Mill Creek's turbines is a natural and physical Mill Creek's neighbours have constructed on their land. In reaching nno.

59 Section 5(2) RMA

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<sup>60 &#</sup>x27;Natural and physical resources' are defined in s2 RMA as including ... 'land, water, air, soil, minerals, and energy, all forms of plants and animals (whether native to New Zealand or not) and all

- Creek: required to recognise and provide for, with the following matters of relevance to Mill [373] Section 6 identifies various matters of national importance which we are
- margins, and the protection of them from inappropriate (including the coastal marine area), wetlands, and lakes and rivers and their development: (a) The preservation of the natural character of the coastal environment useand
- use and development or one that cannot be approved. but that in itself would not make the development of a wind farm an inappropriate adverse effects on the natural character of the coastal environment in some locations, [374] With reference to s6(a), we have found that there would be significant
- inappropriate ... use and development: (b) The protection of outstanding natural features and landscapes from
- not a matter of national importance. of the site and its surroundings are similar to many rural areas and their protection is may be a candidate for outstanding natural feature identification, the rural character With reference to s6(b), we have concluded that while the coastal escarpment
- significant habitats of indigenous fauna: 9 Theprotection of areas of significant indigenous vegetation and
- was subject to appropriate conditions. the protection of significant indigenous vegetation and indigenous fauna provided it With reference to s6(c), there was no dispute that the proposal would ensure
- coastal marine area, lakes, and rivers: and The maintenance and enhancement of public access to and along the
- SEAL marine continue to visit the Makara Beach and nearby coastline. In terms of s6(d) there would be still be public access to and along the coastal Although in some locations the wind farm would be visible, people

traditions with their ancestral lands ... The protection of the relationship of Maori and their culture

and the appeal withdrawn. 61 appeal against the Council decision had been resolved, conditions of consent agreed cultural and environmental concerns outlined in the Ngati Wai O Ngati Tama Trust With reference to s6(e), the opening submission for Meridian contended that supportive of the project. The submission noted that all of

considerations reaching our decision. We consider that the following s7 matters are relevant to our [379] Section 7 requires us to have particular regard to a number of matters

# (aa) The ethic of stewardship

compromises...do not impose unreasonable burdens on communities, individuals or sources of energy. The Court in that case favoured the second alternative, as long as some compromise of amenity to take advantage of non-polluting and renewable the receiving environment. 62 We concur with that approach for Mill Creek firstly in the context of preserving the landscape unaltered, and secondly, allowing In the West Wind decision the Court discussed the concept of stewardship,

# (b) The efficient use and development of natural and physical resources

efficient use of this land. The fact that Mill Creek can be managed jointly with West continue to be used for rural activities which should result in the overall more small footprint of the turbine bases will allow the land on which they are sited to currently unused high quality energy source for the generation of electricity. Wind adds to the efficiency of the proposal The development of a wind farm at Mill Creek will allow the capture The

# (d) The maintenance and enhancement of amenity values

[382] Ohariu Valley and Makara. There will be significant effects on the amenity values of some residents of They would lose the attributes which they value in the

substituting the direction of the area, even for those who already live with the presence

62 Para 369 Beatson Opening Submission Paras 65-68

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sight and sound of wind turbines. of the West Wind turbines. For many people there will be the direct and unwanted

stated in Section 1.2 of NZS 6808:2010 that: The noise limits recommended in [383] Standard provide a reasonable rather than an absolute level of protection of health should not exceed the WHO guideline for sleep disturbance. Nonetheless, we note as predicted night time noise levels inside residences in the vicinity of the wind farm and amenity All of the noise witnesses (except for Professor Dickinson) agree that the

of amenity for residents who would prefer not to hear any turbine noise noise should not pose an unacceptable level of health risk. There may be some loss compliance with the consented noise limits of Mill Creek from the outset, turbine commissioning of West Wind. We have concluded that provided there is full exacerbated by the unanticipated noise problems which occurred at the time of the health are We have noted that wind farm induced sleep disturbance and feelings still being suffered by some Makara residents. This situation was

to the maximum extent possible, the impact of construction traffic on this road. developed gardens and horse training facilities. required for the We also accept that Meridian's proposed traffic management plan should limit Residents who live on Ohariu Valley Road face the loss of road reserve land widening and realignment of this road, land on which some have But this was only ever borrowed

noise amenity they currently enjoy will change, but the quality of the environment minimal effect on the quality of the environment. will be maintained The design and construction details of the wind farm should ensure (f) Maintenance and enhancement of the quality of the environment For some residents, the visual and

# (g) Any finite characteristics of natural and physical resources

ELWING THE TANK TO THE TANK TO THE TANK SEAL OF farm sites throughout New Zealand face a range of environmental constraints the adverse effects of wind farm development on landscape and amenity, with these constraints often limiting the scale and scope of potential developments. [387] ing A Mill Creek's wind is a finite resource, in the sense that many potential wind

The benefits to be derived from the use and development of renewable

renewable wind energy will assist in a limited way towards meeting New Zealand's renewable sources. The benefits to be derived from the use and development of its renewable sources obligations to the Kyoto protocol as well as to the 2025 target of the New Zealand countering the effects of climate change compared to energy generation by non-Energy Efficiency and Conservation Strategy for 90% of generation to be from Mill Creek will use wind as a renewable energy source. It will assist in

had been resolved prior to the hearing [389] Section 8 RMA requires us to take into account the principles of the Treaty of Waitangi in the decision making process. We were advised that matters affecting iwi

## First Instance Decision

subject to appeal which in this case is the first instance decision of the Joint Hearing to the Commissioners for reasons which we will explain our consideration of the matters before us. We come to a slightly different decision Commissioners for the three councils dated 16 February, 2009. [390] Under s290A RMA the Court must have regard to the decision which is We have done that in

## Overall Evaluation

90% of generation to be from renewable sources generation of electricity. currently unused and finite wind resource of particularly high quality for the 2025 target of the New Zealand Energy Efficiency and Conservation Strategy for Creek will assist in meeting New Zealand's obligations under the Kyoto protocol and correspondingly low transmission costs mean an efficient use of this electricity. Mill the development of a We have identified a range of benefits which we consider would accrue from wind farm at Mill Creek. The proximity of the wind farm to Wellington and These include the capture

Modern September 19 130 TV 18 compse eive from the development of a wind farm at Mill Creek. In his closing submission, under the heading Local Community Benefits for Meridian lists a number of benefits which the local community will These include

benefits could be classified as being particularly local, if they are real benefits at all. representatives and employment over the 18 month construction period and beyond. electricity supply and its cost and reliability, expenditure on local goods and services perspective of we heard from at the hearing would consider that most of these the local community, we are doubtful if the community From the

widening and use of the road for construction access. character, visual and noise amenity and (for Ohariu Valley Road residents) natural character of the coastal environment and access to it, landscape and [393] The local community points to potential adverse effects of Mill Creek on the rural

outweigh its adverse effects. The quality of the wind resource at Mill Creek and the achieved that conclusion. benefits arising from renewable energy generation are significant factors in reaching to all of the matters we are obliged to take into account, the benefits of the proposal [394] respects but not all. The concerns of the local community are well founded in ध्र granting consent to Meridians application albeit not in the form We determine that the promotion of sustainable management is best However we consider that when broadly assessed having regard 9 number of

consent ought be denied to them, notwithstanding the overall benefits of Mill Creek. impose unacceptable adverse effects on their neighbours to such an extent that Those are turbines F11 and G01-04. [395] We consider that there are five turbines in the proposed wind farm which will

### Turbine F11

related reasons as there are very high background noise levels at this site. We accept None of the noise witnesses recommended the removal of this turbine their evidence on this matter related adverse The Hearings Commissioners deleted this turbine for both visual amenity and effects on the recently approved, but unbuilt, Bowen cottage.

ssment of the dominating (we would say overwhelming) effects that this turbine Notwithstanding decision on visual amenity grounds alone. removal of the noise ground we concur with

the turbine is simply too close to the house site and is not appropriate principal view from the cottage would be to sea, we accept Mr Brown's opinion that would have on the proposed cottage, just over 500m away. Even accepting that the

## Turbines G01-G04

although we do not base our decision on that ground turbines may also provide further noise amenity bonus for these same residents result in acceptable noise levels at all residences, the removal of the G01 to G04 many residents who live in the central area of Ohariu Valley and along Takarau the unacceptable adverse effects these turbines would have on the visual amenity of [398] We have concluded that turbines G01 to G04 should be deleted because of Whilst we have concluded that the proposed noise conditions

views expressed by Ms Steven as to the significant adverse impact of these turbines. asked to pay an unacceptably high price for that energy, in terms of their amenity generated by Mill Creek but we consider that the neighbours of the site are being We appreciate that their removal reduces the amount of energy which will be consent for the remaining three turbines in this series however we concur with the that made by the Council. [399] Again we note that our finding in respect of turbine G04 is consistent with We have gone further than the Council in declining

#### Result

Creek is approved on the basis that turbines F11 and G01 to G04 are deleted [400] Meridian's application for the construction of a 31 turbine wind farm at Mill

this decision and there may be need for changes as a result of undertakings given by [401] Meridian 23 November 2010. Resource Consent Conditions At the end of the hearing we were provided with a set of conditions titled We have directed changes to these conditions in the course of Council's Marked Up Version Post All

402 ertification process in the future. he consent conditions require, including the details to It is essential that there is no uncertainty about the The conditions referred to the process for approved proposal and be approved as

Meridian's approach. management (or we suspect good project management), and we approval of a management plan within a specified time period then the management protections. approval of management plans which were intended to provide environmental was deemed Meridian sought that if it did not hear back from the Council as to ਠ be approved. This approach is not sound do not accept environmental

November 2010 version of the conditions memorandum explaining the reasons for any changes or additions within 20 working days of issue. conditions is to be lodged with the Court and circulated to all parties for comment may need to be made to the conditions to reflect this decision. A revised, final set of [403] We direct that Meridian and the Councils confer about any changes which These conditions should be accompanied ð the

seeks a hearing on conditions they should advise accordingly. receipt of same. have regarding them. [404]final set of conditions in which to file and serve and submissions which they might Interested parties shall have 20 working days from the receipt of the revised We anticipate determining final conditions on papers. If any party Meridian and Councils may reply within 15 working days of

#### Costs

[405]manner that costs should be awarded. proceedings. Costs are to lie where they fall. No party has been entirely successful in these We do not consider that any party conducted their case in such a

Environment Judge B P Dwyer DATED at Wellington this 2 William Control day of August 2011. Environment Commissioner A Edmonds

D J Bunting Environment Judge

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