APPENDIX 1: RESIDENTIAL VISUAL AMENITY ASSESSMENT

Visual Effects from Dwellings within 5km of Nearest Wind Turbine

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
1*	72 Smiths Line, Eketahuna	1.1km	Dwelling located on an elevated knoll to north-east of Mount Munro from with primary views face southeast and away from the Site. Mature trees and shelterbelt vegetation extend from the north to the southwest to the rear of the dwelling and limits available views towards the wind farm. Landowner anticipates some intervening mature vegetation will need to be removed given its age. The wind farm Site is also visible from more open areas of the larger working farm which continues along a ridge to the north.	From curtilage areas, views towards the proposed wind farm will remain filtered and largely obscured by mature trees and shelterbelts established to the rear of the dwelling. Individual wind turbines may appear visible along the treeline and further changes in view may occur in the event mature vegetation is removed. Existing screening would be gradually replaced as shelter belts are re-established. Earthworks to construct the ridgeline access track will remain concealed except for a localised cut to access wind turbines 13 and 14. This section of access is to be accommodated in box cutting within the Site to limit external views.	Total of 62.4 hours per year. (Wind turbines 8,9 and 10) Occurs on 172 days per year around 4pm between May and September. Mean of 22 minutes per day.	Moderate
2*	48 Smiths Line, Eketahuna	1.3km	Dwelling located along north-eastern toe of Mount Munro. Primary views from living areas face north and west and incorporate open views towards the Site. Established vegetation within this property has predominantly been maintained to enable views towards the rural backdrop of Mount Munro. A single individual deciduous tree and overhead	Views looking west from the living areas will observe wind turbines 1-12, the nearest of which will form prominent dynamic elements along the skyline. Wind turbines 13-14 are located relatively lower along the ridgeline to the north and will largely remain screened beyond intervening vegetation. The majority of proposed earthworks will remain concealed beyond the ridgetop. A localised area of proposed cut will be visible to form access below the base of wind turbine 12, however this	Total of up to 49.8 hours per year (Wind turbines 8, 9 and 10). Occurs on 132 days per year around 4pm between April and August. Mean of 23 minutes per day.	High

²³ Based on MTMR_v10-01_20_WTG. Zone of influence for Shadow Flicker based on 10 x rotor diameter (1,360m). * Indicates location of dwelling has been visited as part of confirming this assessment

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			transmission line punctuates the skyline to the west of the dwelling.	will remain below the main ridge and remain prominently screened beyond established vegetation. The existing visible landform will remain in pasture and support ongoing rural land use.		
3	12 Smiths Line, Eketahuna	1.6km	Dwelling located within broader rural land holding to the east of Mount Munro with primary views appearing to face north and west but enclosed within established garden vegetation that conceals longer distance views including towards the wind farm Site. There may be some partially screened or filtered views from the vicinity of outbuildings and other areas of this working farm.	Views of the proposed wind farm from the dwelling and its associated curtilage areas appear to remain concealed by existing intervening vegetation and would result in no apparent visual change. In the event existing vegetation is removed, wind turbines 1-14 may appear visible along the main ridgeline not currently observed. Wind turbines 15-20 along the lower western ridgeline would remain concealed. With the exception of a local area of box cut supporting access to wind turbines 13 and 14 to the lower northern end of Mount Munro, no views of proposed earthworks would occur with tracks and wind turbine foundations remaining concealed within the existing landform within the Site. Any views of the larger Site would continue to support ongoing pastoral land use.	No shadow flicker effects identified	Low - Moderate
4	2219 Opaki Kaiparoro Road, Eketahuna	2 km	Dwelling located to the east of Mount Munro with primary views facing northeast away from the proposed wind farm and partially enclosed within established garden vegetation. Potential long-distance views appear to occur from the north-west side of the dwelling and the adjoining driveway.	Secondary views of wind turbines 1 -14 would likely be visible as an ordered array of dynamic structures along the skyline in long distance views. From this location, parts of the tips of wind turbines 19 and 20 are also visible above the top of the intervening ridgeline. Earthworks within the Site would remain obscured by the intervening landform with the exception of part of the access track beneath wind turbine 12. The larger landholding	No shadow flicker effects identified	Moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
				surrounding the proposed wind turbines will continue to support ongoing pastoral land use.		
5	2310 Opaki Kaiparoro Road	1.7km	Dwelling located to the south- east of Mount Munro with primary views appearing to face east away from the wind farm. Rear views to the north-west appear to encompass a backdrop which encompass part of the broader Mount Munro backdrop which will include the wind farm Site. Potential views are punctuated by intervening vegetation and outbuildings to the north-west. Access was not provided to this dwelling to confirm views.	Partial and open long-distance views of wind turbines 1 – 7 would likely be visible in long distance views and form an ordered array of dynamic structures along the skyline to the rear of the dwelling. Views of wind turbines 8-14 to the north-west appear to be partially screened by intervening vegetation which reduces the extent to which the larger wind farm will remain apparent. With the potential exception of a local area of box cut and fill supporting access to wind turbines 13 and 14, proposed earthworks would remain concealed within the existing landform with the Site. The larger landholding surrounding the proposed wind turbines would continue to support ongoing pastoral land use.	No shadow flicker effects identified	Moderate - High
6*	73 Hall Road, Eketahuna	950m	Dwelling located along the eastern toe of Mount Munro. Primary view face northeast away from the Site with rear views primarily contained within established planting which encloses the garden. Views towards the Site remain available from curtilage areas including the driveway and from larger working areas of the farm.	Views from much of the curtilage area will remain screened by intervening garden planting and shelterbelt trees. Some rear views between intervening vegetation from curtilage areas will enable prominent views of individual wind turbines above the ridgeline to the west. Open views will also be available from other areas of the farm. Proposed earthworks will remain concealed within the existing landform with the Site. The larger landholding surrounding the proposed wind turbines will continue to support ongoing pastoral land use.	Total of up to 100.5 hours per year (Wind turbines 2,3,4,5 and 6). Occurs during 212 days per year around 4pm between February and October for a mean of 29 minutes per day.	High (Within Project Site)
7	2420 Opaki Kaiparoro	1.5km	Dwelling located to the south-east of Mount Munro with primary views	Views of the proposed wind farm from the dwelling and its associated curtilage areas	No shadow flicker effects identified	Moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
	Road, Eketahuna		appearing to face east within an established garden. Vegetation in the rear garden to the north of the dwelling combined with intervening shelter belts to the west appear to limit other available views from the dwelling and associated curtilage areas.	appear to remain largely concealed by existing intervening vegetation. Individual wind turbines may appear visible in rear views through gaps between vegetation, or the event existing vegetation is removed. Wind turbines 15-20 along the lower western ridgeline will remain concealed.		
				No potential earthworks will be visible. Any views of the larger landholding supporting the wind turbines will continue to support ongoing pastoral land use.		
8*	2472 Opaki Kaiparoro Road,	1.2km	Dwelling to the south-east of Mount Munro with primary views facing northeast through gaps in established	Possible views of the tops wind turbines 1-4 may occur from parts of the curtilage area. Such views would remain largely filtered by intervening	Total of up to 11.3 hours per year (Wind turbine 1).	Low - Moderate
	Eketahuna		vegetation. The east facing slopes of Mount Munro are not generally visible on account of mature vegetation established to the rear of the Site and which encloses curtilage areas.	vegetation and limits the extent to which changes are observed. No potential earthworks will be visible being contained within the landform of the Site.	Occurs during 37 days per year around 3pm in the middle of winter. Mean of 18 minutes per day.	
9	310 Opaki Kaiparoro Road,	Mount Munro from which primary views d, appear to face southwest and away	Mount Munro from which primary views	Oblique potential views towards wind turbines 1 – 8 will remain obscured by intervening roadside shelterbelts.	No shadow flicker effects identified	Low - Moderate
	Eketahuna		intervening roadside vegetation and mature shelter belts on the opposite	No earthworks will be visible within the Site.		
10*	174 Opaki Kaiparoro Road,	680m	Dwelling recently upgraded with new living areas constructed to the southwest of Mount Munro. Primary views to	Dwelling set back from the roadside and property boundary established with existing shelterbelt vegetation which largely restricts existing	Total of up to 105.3 hours per year (Wind turbines 1,2,3 and 4).	Moderate -High
	Eketahuna		the north and west remain relatively well contained within established pine trees. The dwelling is arranged in separate	external views. Possible partial views of wind turbines 1, 2 and 3 and the upper part of wind turbine 4 where there are gaps through existing	Occurs during 193 days per year before 8am between	

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			pods which require occupiers to regularly move between buildings across the curtilage area of the Site.	intervening vegetation and in the event existing vegetation is removed. Potential longer distance views towards wind turbines 15 – 20 remain relatively low along the more distant skyline and predominantly screened by intervening vegetation.	September and March. Mean of 33 minutes a day.	
11*	152 Opaki Kaiparoro Road, Eketahuna	670m	Dwelling to south-west of Mount Munro with primary views facing north-west away from the Site and towards part of the Tararua Ranges observed along the alignment of Opaki Kaiparoro Road. Open rear views of southern part of Mount Munro from driveway approaching dwelling with rear views from dwelling remaining partially obscured by intervening vegetation.	Primary views from dwelling are in opposite direction of wind farm and therefore remain largely unchanged. When approaching the dwelling along the driveway and through gaps in vegetation, wind turbines 1 and 2 will appear as prominent structures along the skyline of the adjoining rural backdrop. The remaining wind turbines within the wind farm will remain concealed by established boundary vegetation. No earthworks will be visible within the Site.	Total of up to 79 hours per year (Wind turbines 1,2,3 and 4). Occurs during 79 hours per year before 8 am between September and March. Mean of 28 minutes	Moderate -High
12*	124 Opaki Kaiparoro Road, Eketahuna	1.1km	Small dwelling 'The Cottage' with primary views looking north-west and overlooking an upper tributary along the Makākahi River. Oblique open views are available from a side window looking north-east towards the wind farm.	Primary views from dwelling overlooking the Makākahi River will remain unchanged. Oblique open views to the northeast will observe wind turbines 1-11 along the skyline of the main ridge alongside partial views of wind turbines 15-20 forming an overlapping cluster to the right over greater distances. The larger array of wind turbines may appear prominent as part of this secondary rural outlook. No earthworks will be visible within the Site.	per day. Total of up to 38.4 34 hours per year (Wind turbines 1 and 2). Occurs during 100 days per year before 7 am between November and January.	Moderate - High
13*	117 Opaki Kaiparoro Road, Eketahuna	1.2km	Dwelling located to the west of Mount Munro within enclosed rural valley which extends along Falkner Road. Primary views from dwelling look northeast towards the wind farm Site and south-west along the alignment of	Primary views from the dwelling will observe the majority of the proposed wind farm which will appear as prominent dynamic structures along the skyline. Parts of wind turbines 13,14 and 20 will be obscured beyond the intervening landform.	No shadow flicker effects identified	High

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			Opaki Kaiparoro Road towards the Tararua Ranges.	No earthworks will be visible within the Site.		
			Farm sheds and mature vegetation punctuates parts of the Mount Munro ridgelines			
14*	171 Opaki Kaiparoro Road, Eketahuna	775m	Dwelling located on an elevated knoll within the confines of the wind farm with primary views to the west and north. Views typically enclosed within an established garden setting with open views from the side of the dwelling also available including from the north facing washing line.	Primary views to the west will remain contained within established garden areas. Open side views will observe wind turbines 6-14 extending along the main ridgeline. To the left of this wind turbine 15 will appear prominent on the western ridgeline to the left of partial views of wind turbines 16-20 which appear to overlap as they continue to the north. Oblique rear views towards the nearest wind turbines 1-5 will remain partially obscured beyond established vegetation.	Total of up to 77.8 hours per year (Wind turbines 1,5,6 and 15). Occurs on 197 days per year between October and February around 7am and in the middle of winter around 9am. Mean of 24 minutes per day.	High (Within Site)
15*	85 Old Coach Road South, Eketahuna	625m	Dwelling located on an elevated spur which extends between the ridgeline areas where wind turbines are proposed. Living areas associated with this dwelling face west towards the Tararua Range in the distance and north overlooking the Site.	Long distance views to the west will remain unchanged. Secondary views from north facing living areas will observe open near distance views of wind turbines which continuing along the main ridgeline to the east. The nearest wind turbines (wind turbines 15 and 5-7) will from dominant elements in the view within a larger surrounding wind farm. During construction, areas of earthworks will extend along and below the ridgetop visible from this elevated location. Where visible, the larger wind farm will form a dominant characteristic in middle distance views for much of this northern aspect.	Total of up to 36.6 hours per year (Wind turbines 6,7 and 8). Occurs on 93 days per year between September and November and January and March around 7am. Mean of 24 minutes per day.	Very High (Within Site)

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
16*	136 Falkner Road, Eketahuna	915m	Dwelling located to the west of Mount Munro within a working dairy farm. Views from dwelling are largely enclosed within established garden planting which extends to the east with secondary more open views looking to the north and from south facing bedrooms. Some open views are also available the larger working rural land holding.	Views east towards proposed wind turbines will remain contained by established intervening vegetation. Oblique views from the southern side of the dwelling and parts of the curtilage area will observe prominent views of wind turbines 15-17 along the western ridgeline and in the foreground of the larger array of wind turbines 1-12 along the main ridgeline. Proposed earthworks associated with access to the Site extend below wind turbines 18-20 observed from this dwelling and remain concealed.	Total of up to 25.6 hours per year (Wind turbines 16 and 17). Occurs on 76 days per year between November and January prior to 7am. Mean of 20 minutes per day.	Moderate - High
17*	114 Falkner Road, Eketahuna	985m	Dwelling is located to the west of Mount Munro with primary views facing north and east, including filtered views towards the wind farm through vegetation established along the road frontage. Some open views are also available the larger working rural land holding.	Existing garden and roadside vegetation typically punctuate and break up the skyline of the larger Mount Munro ridge from the dwelling along which the wind farm and limits the extent to which the Site forms a primary focus of the view. Where visible, individual wind turbines may appear prominent, however established planting also contributes to foreshortening and breaking up larger views of the wind farm and limits the overall observed magnitude of change. Proposed earthworks associated with access to the Site extend below wind turbines 15-19 and may be observed in partial views through gaps between established plantings.	No shadow flicker effects identified	Moderate - High
18*	51 Falkner Road, Eketahuna	1.1km	This dwelling is located to the west of Mount Munro with primary views facing south-west and framed by mature vegetation. Rear open views to the south-east of the dwelling also face towards the Site and overlook low level hedging,	Oblique partial views and open rear views of wind turbines 15-20 will appear prominent along the skyline of Mount Munro. Beyond this, the larger array of wind turbines 1-10 will appear along the main ridgeline. Possible views of blade tips of wind turbines 11 and 13 wiping beyond landform will also appear in this view.	Total of up to 18.6 days per year (Wind turbine 20). Occurs on 54 days per year during January and November before	High

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			including views from the vicinity of the washing line.	Earthworks associated with the Site access and wind turbines 16-19 along the skyline will also reveal an initial raw worked appearance before being re-established in pasture and assimilated in the working rural nature which remains evident in this view.	7am. Mean of 20 minutes a day.	
19*	32 Falkner Road, Eketahuna	1.2km	Dwelling located to the north-west of Mount Munro. Primary views from the dwelling face east and north of the wind farm with oblique views remaining enclosed by mature garden vegetation which will continue to partially obscure long-distance views towards the Site.	Primary views from dwelling will remain largely enclosed within an established garden setting beyond which partial long- distance oblique views of wind turbines will appear visible along the skyline. Where visible wind turbines 15-20 will appear relatively larger along the lower western ridge with wind turbines 1-12 visible beyond these along the main ridgeline. Partial views with a wiping action of wind turbine blades for wind turbines 12-14 may also be visible beyond the intervening landform.	No shadow flicker effects identified	Low - Moderate
			Areas of earthworks associated with the access and wind turbines 16-19 may also be visible, however these are typically obscured by garden vegetation which encloses the dwelling.			
20	84743 State Highway 2, Eketahuna	1.5km	Dwelling established along an elevated terrace to the west of the Makākahi River and north-west of Mount Munro. Primary views from dwelling appear to face northwest in the opposite direction of the Site, with rear views appearing to remain largely enclosed within mature garden vegetation and other planting which continues along the margins of the Makākahi River.	Primary views from dwelling appear to remain largely enclosed by intervening vegetation established in the rear garden and continuing along the margins of the Makākahi River. In this context, potential long distance rear views towards proposed wind turbines appear to remain filtered through gaps in established planting and reduce the overall extent of visual change.	No shadow flicker effects identified	Moderate
				Earthworks associated with access into the Site would similarly remain obscured by intervening vegetation with proposed earthworks necessary		

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
				to access the Site otherwise visible from this area.		
21*	168 Old Coach Road, Eketahuna	660m	Dwelling located along the western toe of Mount Munro. Primary views from dwelling face northwest and away from the Site. There are potential rear east facing views from curtilage areas.	Primary views look in the opposite direction of the Site and will not therefore change. Possible oblique prominent views towards wind turbines 18 – 20 above the adjoining ridgeline and north of wind turbines 15-17. Beyond these, wind turbines 5 ad 6 may be visible along the head of a local gully with parts of wind turbines, 4-12 forming wiping along the summit of the ridgetop visible from this area.	No shadow flicker effects identified	High (Within Site)
22	103 Old Coach Road, Eketahuna	1.1km	Dwelling located to the north-west of Mount Munro. Primary views appear to face north and west away from the Site. Existing views to the south and southeast appear to be obscured by a mature shelterbelt which encloses the dwelling.	Existing primary views are not expected to change. Potential rear views appear to remain concealed beyond established vegetation which will continue to screen wind turbines along the skyline. Areas of earthworks along the secondary access track and associated with wind turbines 18 and 19 along the lower western ridgetop which may otherwise appear visible remain similarly concealed.	No shadow flicker effects identified	Low - Moderate
23	56 Old Coach Road, Eketahuna	1.5km	Dwelling located to north-west of Mount Munro along terracing above the Makākahi River. Primary views appear to face south-east towards the northern extent of the larger wind farm. A semimature shelter belt extends to the south of the dwelling and limits potential south facing views. Established vegetation along the roadside boundary and opposite side of the road provides some further established screening to the east.	Potential oblique partial views from eastern windows of the dwelling may observe part of the larger array of wind turbines along the skyline to the south of a sequence of low elevated hills. Wind turbines 15- 20 would appear relatively larger along the lower western ridge against a broader backdrop of wind turbines 1-20 along the main ridgeline in long distance views. Some earthworks may also be visible in association with the secondary access and wind turbines 18 and 19 near the ridgetop.	No shadow flicker effects identified	Moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
24	47 Old Coach Road, Eketahuna	1.5km	Dwelling located to the north-west of Mount Munro. Primary views from dwelling appear to face southwest, towards the Site, however these appear to remain predominantly screened by existing shelterbelt vegetation.	The dwelling's enclosure within mature vegetation appears to limit any potential long-distance views towards the Site and thereby minimise the potential for any visual change. From other areas of this working farm and in the event existing intervening vegetation is removed, views of wind turbines 1 – 14 may be visible along the skyline in long distance views.	No shadow flicker effects identified	Low - Moderate
				Some potential earthworks may also be visible in associated with the main access into the Site and in the vicinity of Wind turbines 12 and 19 along the ridgetop.		
25 (C13)	85151 State Highway 2, Eketahuna	2.4km from wind turbines, 300m from transmissi on line corridor	Dwelling located to the south-west of Mount Munro and accessed SH2. Primary views from this dwelling appear to face northwest and remain largely enclosed within a mature framework of vegetation.	Potential views of the proposed wind farm remain obscured by landform. However, this dwelling has potential views from the southern side towards the proposed transmission line however vegetation along the southern boundary of the property likely screens these views.	No shadow flicker effects identified	Low
26 (C14)	85237 State Highway 2, Eketahuna	3km from wind turbines, 200m from transmissi on line corridor and 300m from substation	Dwelling located to the south-west of Mount Munro and east of the substation proposed on the opposite side of SH2. Primary views from this dwelling appear to face northeast and remain largely enclosed within established vegetation which buffers views along SH2.	Potential views from the dwelling toward the wind turbine sites occur in very long distances and appear to be largely screened by intervening vegetation. This dwelling is approximately 200m south-west of the proposed transmission line corridor and 300m from the proposed substation location on the opposite side of the road. Views of the substation have an ability to remain concealed by existing vegetation. Existing vegetation and local landform north of the dwelling screens views towards the transmission line.	No shadow flicker effects identified	Low

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
27 (C15)	85274A State Highway 2, Eketahuna	3.5km from wind turbines, 300m south of substation, 850m south of transmissi on line corridor.	Dwelling located to the south-west of Mount Munro and west of SH2. Primary views from dwelling appear to face southeast and remain well enclosed within mature garden vegetation.	Views from the dwelling toward the proposed wind farm appear to remain screened by existing garden and shelterbelt vegetation. This vegetation will also screen views from the dwelling towards the proposed substation and transmission line.	No shadow flicker effects identified	Low
28 (C16)	85289 State Highway 2, Eketahuna	3.4km from turbines, 450m to substation, 830m from transmissi on line corridor.	Dwelling located to the south-west of Mount Munro and east of SH2 with primary views facing northeast towards the proposed wind farm in very long-distance views. Transmission lines and the substation are also visible in closer proximity straddling SH2.	Very long-distance views of wind turbines remain partially obscured beyond the intervening landform to the south of Opaki Kaiparoro Road. This property will also have views to the north towards the transmission line which will be partially screened by intervening vegetation. Oblique views will be possible towards the substation, which will be partially screened by an existing shelterbelt to the east.	No shadow flicker effects identified	Low - Moderate
29	Land owned by Glen Opel	1.5 km closest wind turbine to boundary distance	Consented subdivision, however, lots are unbuilt. Where there are existing or anticipated dwellings within this area, these have been separately assessed below.	A series of open and partial views towards the main ridgeline may be available from within these lots. As a result, there may be a range of potential visual effects, the scale of which is dependent on the location and orientation of viewer and intervening planting to be established in associated curtilage areas. Given the absence of such development from which effects can be understood assessed, the level of effect is unable to be determined.	No shadow flicker effects identified	N/A
30	18 Hall Road	1.65 km	Land to the east of Mount Munro with no permanent dwelling yet. Temporary dwelling located within existing shed	The orientation and establishment of curtilage areas of a future permanent dwelling will affect the potential magnitude of visual change.	No shadow flicker effects identified.	Moderate -High

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			within the Site, Views assessed from the road only.	Existing views towards the Site are punctuated by mature shelter belts beyond which views of wind turbines 5-14 would be visible along the main ridgeline. Wind turbines 15-20 will remain concealed beyond the main ridgeline.		
				Proposed earthworks will remain concealed within the existing landform with the Site. The larger landholding supporting the wind turbines will continue to support ongoing pastoral land use.		
31*	No address Hall Road	1.4km	New house recently delivered with living areas facing north-east, North facing bedroom window with open view of ridgeline. Mature shelter belts surround this rural property with no established curtilage areas or planting surrounding the dwelling.	Proposed wind turbines 1-14 would appear prominent as an ordered array or dynamic structures visible along the adjoining skyline. The lower parts of wind turbines 11-14 will appear partially obscured by intervening trees which punctuate the skyline. Wind turbines 15-20 along the lower western ridgeline will remain entirely concealed.	No shadow flicker effects identified.	High
				Proposed earthworks will remain concealed within the existing landform with the Site. The larger landholding supporting the wind turbines will continue to support ongoing pastoral land use.		
32	18A Hall Road	1.6 km	Caravan and temporary accommodation	The orientation and establishment of curtilage	No shadow flicker	Moderate
	Hall Road		adjoining site of future dwelling, the location and orientation of which is yet	areas of the permanent dwelling will affect the potential magnitude of visual change.	effects identified.	- High
		to be confirmed.	From the existing curtilage of the temporary			
			Recent planting established along parts	dwelling there are open views towards the main		
			of the boundary of the Site with no established curtilage areas or planting	ridgeline along which wind turbines 1 - 14 will be visible as an ordered pattern along the skyline.		
			surrounding a future site of the dwelling.	The lower parts of wind turbines 1-3 will likely be		
			Sarrounding a fatare site of the aweiling.	partially obscured by intervening trees which		

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
				punctuate the skyline with. Wind turbines 15-20 obscured beyond the main ridgeline.		
				Proposed earthworks will remain concealed within the existing landform with the Site. The larger landholding supporting the wind turbines will continue to support ongoing pastoral land use.		
33	18C Hall Road	1.6 km	No dwelling yet (but containers visible on site).	The orientation and establishment of curtilage areas of a future permanent dwelling will affect the potential magnitude of views.	No shadow flicker effects identified.	Moderate -High
			Views from open areas of Site observe the ordered array of wind turbines 1-14 along the skyline.			
				Beyond this, wind turbines 15-20 will remain obscured beyond the main ridgeline.		
			Proposed earthworks will remain concealed within the existing landform with the Site continuing to support ongoing rural land use.			
34*	(No address) Old Coach Road	1.1km	Dwelling under construction facing primary views to the north-west along the Makākahi River.	The primary views from the dwelling to the northwest along the Makākahi River will remain unchanged.	No shadow flicker effects identified	Moderate -High
			Rear views towards the Site are partially obscured by intervening roadside vegetation beyond which parts of the Site are visible.	Rear views of wind turbines 18-19 and 15-17 will be visible along the hill backdrop beyond roadside vegetation which punctuates the skyline. Beyond this, partial views of wind turbine blades 1-14 may also be visible through intervening roadside vegetation. The larger landholding surrounding the proposed wind turbines will continue to support ongoing pastoral land use.		

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect	
35*	Old Coach 930m Road	platform orientated to face north along the Makākahi River. Some established and more receplanting is established along the	No dwelling yet, however building platform orientated to face northwest along the Makākahi River. Some established and more recent planting is established along the toe of the adjoining hillside in rear views.	The primary views from the building platform are focused to the north-west along the Makākahi River and will remain unchanged. Rear views of wind turbines 18-20 will appear prominent along the skyline with partial views of wind turbines 1-14 visible beyond this. will be visible along the hill backdrop.	No shadow flicker effects identified	Moderate - High	
				Earthworks associated with the secondary access and wind turbines 18 and 19 along the ridgetop may also be visible. The larger landholding surrounding the proposed wind turbines will continue to support ongoing pastoral land use.			
				To the south of the Site along Old Coach Road, the laydown area and permanent Services / Operations Building will be visible adjoining the Site.			
36	22 Bowen 2.2 Road	Road Primary views for proposed wind distance oblique north-west toward predominantly significant and road. The Site is also		Dwelling to east of Mount Munro. Primary views face south-west with the proposed wind farm visible in long distance oblique views. Views to the north-west towards the Site are predominantly screened by intervening garden and roadside vegetation. The Site is also visible from more open areas of the working farm.	From curtilage areas, the proposed wind farm will remain largely concealed beyond intervening vegetation. Proposed wind turbines at the southern end of Mount Munro (Wind turbines 1-5) may be visible in long distance oblique views with the majority of wind turbines to the north of the main ridge remaining obscured beyond intervening vegetation. Earthworks are not generally visible. A localised	No shadow flicker effects identified	Moderate
				area of earthworks below wind turbine 12 will be concealed beyond intervening vegetation from this dwelling. The larger landholding surrounding the proposed wind turbines will continue to support ongoing pastoral land use.			

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
A 1	97 Bowen Road, Eketahuna	1.9km	Dwelling located near the valley floor west of Bowen Road to the east of Mount Munro.	Views to the north-west towards the Site are partially screened by vegetation within the property and the landform of the adjoining Bowen Hills. Potential partial views of wind turbines 3 - 11 filtered through intervening vegetation.		Low- Moderate
A2	134 Bowen Road, Eketahuna	1.9km	Dwelling located near the valley floor east of Bowen Road to the east of Mount Munro.	Views facing north-west towards the Site are predominantly screened by the intervening landform of the Bowen Hills and substantial mature vegetation surrounding the dwelling.		Low
B1	455 North Road, Mauriceville	2.1km	Dwelling located on a valley floor to the south of Mount Munro.	Views to the north towards the Site are screened by the elevated landform and vegetation west of the dwelling between Mt Munro Road and North Road.		Low- moderate
B2	423 North Road, Mauriceville	2.2km	Dwelling located on a valley floor to the south of Mount Munro.	Views to north towards the Site are largely screened by the elevated landform to the north and north-west of the dwelling between Mt Munro Road and North Road.		Low
В3	404 North Road, Mauriceville	2.4km	Dwelling located on a valley floor to the south of Mount Munro.	Views to the north towards the Site are predominantly screened by vegetation to the north of the dwelling and along North Road.		Low- moderate
B4	329 North Road, Mauriceville ²⁴	2.8km	Dwelling located along the toe of an elevated spur to the south of Mount Munro.	Views to the north towards the Site are partially screened by the elevated landform to the north of the dwelling and west of North Road.		Low - moderate
B5	340 North Road ²⁵	2.9km	Dwelling located on an elevated spur to the south of Mount Munro.	Views to the Site appear open with wind turbines visible in long distance views.		Moderate - high
В6	222 North Road, Mauriceville	3.8km	Dwelling located on a valley floor to the south of Mount Munro.	Dwelling faces north, from which potential open long distance views facing north towards Wind turbines 1-12 are visible.		Moderate

²⁴ Submission 70. Andrew and Brigitte Sims.

²⁵ Submission 17. Bruce Wallace.

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
В7	2024 Opaki- Kaiparoro Road	3.8 km	Dwelling located near the valley floor to the east of and south-east of the windfarm.	Views from dwelling appear focussed to the north and wet with long distance views towards the Site partially obstructed by out buildings and mature vegetation in the direction of the Site.	Nil	Low - moderate
B8	10 Station Road	4.0 km	Dwelling located near the valley floor to the west of the Kōpuaranga River and to the south-east of the windfarm	Views from dwelling appear focussed to the west and north and partially obscured by out buildings to the north-west and intervening landform in the direction of the Site. Potential for partial views of wind turbines 7-13 appear obstructed by established vegetation along the Kōpuaranga River.	Nil	Low
В9	19 Mangamahoe Road	4.5 km	Dwelling located near the valley floor, east of the Kōpuaranga River and to the south-east of the windfarm.	Views from the dwelling appear to face south and remain enclosed within surrounding mature vegetation which appears to obscure any potential views towards the Site.	Nil	Low
B10	1881 Opaki- Kaiparoro Road	4.5 km	Dwelling located near the valley floor near the Kopuaranga River and southeast of the windfarm	Views from dwelling appear enclosed within surrounding curtilage planting which obscures potential views towards the Site.	Nil	Low
C1	31 Opaki- Kaiparoro Road, Eketahuna	1.9km	Dwelling located to the west of Mount Munro. The dwelling is surrounded by elevated landform in its immediate context.	Views towards the Site are largely screened by an elevated knoll to the east of the dwelling and west of Mount Munro and mature vegetation established surrounding the dwelling.	Nil	Low
C2	17 Opaki- Kaiparoro Road, Eketahuna	2km	Dwelling located to the west of Mount Munro with its immediate context surrounded by elevated landform.	Views towards the Site are predominantly screened by the surrounding vegetation and the elevated knolls north and north-east to the dwelling. Potential partial views of wind turbine 15-20 the north-west of the Site however these appear predominantly concealed by mature intervening vegetation.	Nil	Low - moderate
C 3	13 South Road No 2, Eketahuna	2.3km	Dwelling located on the lower slopes to the south of South Road No 2 and west of Mount Munro.	Views towards the Site are largely screened by vegetation within the property, elevated landform to the north of the dwelling and elevated knoll west of Mount Munro. Potential views towards	Nil	Low- moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
				the wind turbines through gaps between vegetation.		
C4	16 South Road No 2, Eketahuna	2.5km	Dwelling located to the west of Mount Munro. To the northeast of the dwelling is characterised by undulating topography and established shelter and amenity planting.	Views facing from the dwelling are predominantly enclosed within the vegetation in the immediate surround of the dwelling. Potential views towards the Site appear to be concealed by intervening vegetation.		Low- moderate
C5	43 South Road No 2, Eketahuna	2.6km	Dwelling located on the plains to the west of Mount Munro.	Views towards the Site are predominantly screened by the vegetation to the south-east of the dwelling and along South Road No 2.		Low
C6	19 Morgans Road, Eketahuna	3.3km	Dwelling located on the plains to the west of Mount Munro. Views from dwelling appear to focus north and west towards the Tararua Ranges.	Views towards the north and southern part of the Site are partially screened by mature vegetation to the south-east of the dwelling. Views facing east towards the Site from the dwelling partially obstructed by outbuildings and intervening vegetation.	Nil	Moderate
C7	36 Morgans Road, Eketahuna	3.6km	Dwelling located on the plains to the west of Mount Munro and appear to be enclosed within surrounding vegetation.	Views towards the Site are predominantly screened by mature vegetation within the property.		Low
C8	54 Morgans Road, Eketahuna	3.7km	Dwelling located on the plains to the west of Mount Munro with a generally flat topography in its immediate context.	Views towards the Site appear to be largely screened by shelterbelt immediately south of the dwelling and vegetation at the nearby properties. Potential partial views towards the Site from views facing east.	Nil	Low - moderate
C9	76 Morgans Road, Eketahuna ²⁶	4km	Dwelling located on the plains to the west of Mount Munro. The topography in its immediate context is generally flat with substantial vegetation enclosing the dwelling.	Views from dwelling appear to be focussed to the west towards the Tararua Range. Views facing east and south-east from the dwelling towards the windfarm appear partially enclosed within amenity vegetation surrounding the dwelling. The 110kv overline is located east of this dwelling and	Nil	Low

²⁶ Submission 42. Naomi Pussell

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
				in the foreground of any available views towards the Site.		
C10	98 Morgans Road, Eketahuna	4.1km	Dwelling located on the plains to the west of Mount Munro. The immediate surrounds of the dwelling are characterised with a generally flat topography.	Views from dwelling appear to be focussed to the west towards the Tararua Range and east across adjoining farmland. Views towards the windfarm to the east appear largely screened by vegetation surrounding the dwelling and established along adjoining sections of Morgans Road.		Low
C11	133 Morgans Road, Eketahuna	4.4km	Dwelling located on the plains to the west of Mount Munro. The curtilage area surrounding the dwelling is characterised with a generally flat topography and substantial shelter planting to the east.	Views from dwelling appear to be focussed to the west towards the Tararua Range. Views facing east and southeast towards the windfarm appear enclosed within vegetation in the immediate surround of the dwelling.		Low
C12	155 Morgans Road, Eketahuna	4.6km	Dwelling located on the lower slopes of a spur to the west of Mount Munro. Views from dwelling appear to focus south and east towards the windfarm	Potential views to the east towards the windfarm appear to the partially obscured by outbuildings and mature vegetation established in proximity to the dwelling.		Low- Moderate
C17	85354 State Highway 2	3.9km	Dwelling located on the rural planning to the west of State Highway 2 with views focussed north within substantial shelter planting to the south-west of Mount Munro.	Views to the north-east towards windfarm appear to be partially obstructed by intervening vegetation adjoining the dwelling and intervening landforms which rise to the east of State Highway 2. Some wind turbines may be visible along the skyline and through gaps within intervening vegetation.	Nil	Low
D1	84579 State Highway 2, Eketahuna	2km	Dwelling located on the plains to the north of Mount Munro. The topography in its immediate surrounds is generally flat. Views appear to be focussed wet towards the Tararua Range and encloses within substantial vegetation.	Views towards the Site appear to be largely screened by intervening vegetation and outbuildings established to the south of the dwelling.	Nil	Low

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
D2	84588 State Highway 2, Eketahuna	2.1km	Dwelling located on the plains to the north of Mount Munro. Dwelling appears to be orientated north-west and in the opposite direction of the windfarm.	Views facing south towards the Site appear to be predominantly screened by intervening vegetation in the immediate surround of the dwelling.	Nil	Low
D3	77 South Road No 1, Eketahuna	2.3km	Dwelling located to the north-west of Mount Munro. Its immediate surround features an undulating topography and established shelter planting.	Views facing south-east towards the Site appear to be screened by the shelterbelt immediately to the east and south of the dwelling.	Nil	Low
D4	215 South Road No 1, Eketahuna	2.6km	Dwelling located on the north-east flank of an elevated knoll to the north-west of Mount Munro.	Views facing south-east towards the Site appear to be screened and by intervening landform and vegetation.	Nil	Low
D5	262 South Road No 1, Eketahuna	2.9km	Dwelling located to the north-west of Mount Munro. The topography in its immediate surround is undulating with intervening outbuildings to the southeast in the direction of the windfarm,	Views facing south-east towards the Site appear to be screened and by a combination of intervening outbuildings, landform and vegetation.	Nil	Low
D6	271 South Road No 1, Eketahuna	3km	Dwelling located on a relatively flat topography to the north-west of Mount Munro with limited established curtilage planting.	Views facing south-east towards the windfarm may include views of wind turbines seen beyond the undulating landform.	Nil	Low - moderate
D7	139 South Road No 2, Eketahuna	3.3km	Dwelling located on an elevated landform to the west of Mount Munro. Views from dwelling appear to be focussed to south and north and screened be established vegetation to the east.	Views facing east towards the windfarm appear to be screened by vegetation to the south-east of the dwelling and opposite side of the road.	Nil	Low
D8	184 South Road No 2, Eketahuna	3.3km	Dwelling located on the western flank of a gently sloping area of topography to the west of Mount Munro. Views from dwelling appear to be focussed to the east towards Mount Munro. Established	Views facing east to south-east are predominantly screened by intervening landform, however the tops of wind turbines may appear visible beyond intervening rural views.	Nil	Moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			amenity planting extends to the north and south.			
D9	198 South Road No 2, Eketahuna	3km	Dwelling located to the west of Mount Munro on the eastern flank of a gently downward sloping topography facing north and south-east towards Mount Munro. Some established amenity planting to the west and south.	Potential open views facing south-east towards the Site may observe the tops of wind turbines beyond intervening rural views.	Nil	Moderate
D10	301 South Road No 2, Eketahuna	3.6km	Dwelling located on a generally flat area to the north-west of Mount Munro and enclosed within established curtilage planting.	Views facing south-east towards the Site are partially screened by shelterbelts in a distance. Potential open views may be visible to the east beyond intervening rural views.	Nil	Moderate
D11	321 South Road No 2, Eketahuna	3.9km	Dwelling located on a generally flat area to the north-west of Mount Munro. Dwelling appears to face north and east with limited curtilage planting.	Views facing south-east towards the Site are partially screened by intervening shelter belts and tree groups on both sides of the road. Beyond this, potential partial views of wind turbines may be visible to beyond intervening rural views.	Nil	Low- Moderate
D12	329 South Road No 2, Eketahuna	4.2km	Dwelling located on an elevated terrace to the north-west of Mount Munro. Several out buildings surround the dwelling and foreshorten surrounding rural views	Potential partial views towards the Site and wind turbines may be obtained across intervening rural landscape.	Nil	Moderate
D13	369 South Road No 2, Eketahuna	4km	Dwelling located on a generally flat area to the north-west of Mount Munro. Established tree planting to the east appears to limit available views towards the Site.	Views facing south-east towards the Site are predominantly screened by vegetation within the property and elevated landform on the opposite side of the road.	Nil	Low
D14	424 South Road No 2, Eketahuna	4.2km	Dwelling located to the north-west of Mount Munro. The dwelling is largely surrounded by elevated landform in its	Views facing south-east towards the Site are partially screened by an existing outbuilding and elevated landform in the distance. Potential open views towards the northern part of the Site.	Nil	Low - Moderate

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
			immediate context and an intervening outbuilding to the south-east.			
D15	436 South Road No 2, Eketahuna	4.2km	Dwelling located to the north-west of Mount Munro. The dwelling is on a lower elevation when compared to its immediate surrounding where it has an undulating topography and several intervening outbuildings in the direction of the windfarm.	Views facing south-east towards the Site appear to remain partially screened by intervening outbuildings and elevated landform.	Nil	Low - Moderate
E	Eketahuna Township (240 dwellings)	3.4-5km	Township located to the north of Mount Munro. Dwellings are generally located on a flat topography.	Views from dwellings towards the Site are generally limited by intervening vegetation and buildings. The Site is more visible from dwellings in the southern edge of the town.	Nil	Low - Moderate
E1	54 Alfredton Road ²⁷	4.7km	Dwelling located to the south-east of town on larger rural lifestyle lots associated with increased shelter vegetation.	Views from dwelling appear focussed to the west and north away from the windfarm. Mature amenity trees are established to the south and appear to screen views to the south towards the windfarm.	Nil	Low
E2	44 High Street ²⁸	4.3km	Dwelling within residential areas of Eketahuna with established fencing and planting typically limiting wider views	Views from dwelling will remain largely curtailed by immediate curtilage planting and other planting as established throughout intervening rural areas.	Nil	Low
F1	37 Parkville Road, Eketahuna	3.5km	Dwelling located on a generally flat area to the north-west of Mount Munro and south-west of Eketahuna.	Views facing south-east towards the Site are predominantly screened by vegetation within the property.	Nil	Low
F2	36 Parkville Road, Eketahuna	3.7km	Dwelling located on a generally flat area to the north-west of Mount Munro and south-west of Eketahuna.	Views facing south-east towards the Site are predominantly screened by vegetation groups in the immediate surrounds of the dwelling.	Nil	Low

²⁷ Submission 33. Hera Wi Repa.

²⁸ Submission 58. Falene Grimmer

ID	Address	Distance to nearest wind turbine	Nature of the View (Sensitivity)	Magnitude of Visual Change	Shadow Flicker Analysis ²³	Potential Visual Effect
F3	61 Parkville Road, Eketahuna	3.7km	Dwelling located on a generally flat area to the north-west of Mount Munro and south-west of Eketahuna.	Views facing south-east towards the Site are partially obscured by vegetation immediately south and south-east of the dwelling. Potential partial views can be obtained through gaps in the vegetation across intervening rural landscape.	Nil	Low- moderate
F4	236 Parkville Road, Eketahuna	4.8km	Dwelling located on a generally flat area to the north-west of Mount Munro.	Views facing south-east towards the Site are predominantly screened by the vegetation to the south of the dwelling and elevated landform south of Parkville Road.	Nil	Low
F5	238 Parkville Road, Eketahuna	4.8km	Dwelling located on a generally flat area to the north-west of Mount Munro.	Views facing south-east towards the Site are predominantly screened by the vegetation to the south of the dwelling and elevated landform south of Parkville Road.	Nil	Low