

Issued: 22/12/2022

Version: A

Prepared by: Ryan Birkett

Checked by: David Harris LS

Project Manager: Bernard Stewart

Project Number: 2102213

LICENSED SURVEYORS REPORT

Surveyors name: David Rupert Harris

Surveyors Reference: 2102213

Equipment used: Trimble S6 DR Plus S/N 93210049 Calibrated at Cowwarr baseline 27/05/2022

Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Welshpool

Section B

Crown Allotment 18A

Municipality: South Gippsland Shire Council

Property: 110 Birds Road S, Hedley 3967

Purpose of survey: To determine the linear distance between the Wind Turbines described as **GWT02** & **GWT03** and the dwelling described

as **N046**.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4 $\,$

Horizontal Datum: GDA94 Vertical Datum: AHD Easting Northing RL C.S.F.

471094.578 5725409.176 5.969 0.9996094



Appendix | 110 Bird Road S, Hedley 3967

Survey Methodology: The survey has been completed by adopting at least the minimum procedures as recommended by the Surveyor General Victoria.

GNSS (Global navigation Satellite System) Survey

- -Verify GNSS measurements by connecting to a registered survey control network (SCN) mark to achieve a vertical accuracy of less than 0.1m.
- To perform a minimum of two independent observations of a registered SCN mark to provide horizontal uncertainty of less than 0.025m for coordinated positions between surveyed observations.
- Compute the average MGA94 Zone 55 coordinates for all survey marks where the horizontal linear distance between any two observations does not exceed 0.05m.

Total Station (Conventional) Survey

- Where the above option was not possible due to access constraints, Total Station observations with a Trimble S6 Total Station using direct reflex (DR) measurements were used to locate the dwelling. Using a control established via GNSS Survey, radiations were observed to the relevant dwelling corners. The GNSS control was confirmed by directly measuring distances and angles between control marks. The linear distance accuracy should not exceed 0.05m and the angular accuracy should not exceed 10". The radiations were confirmed by a second independent measurement.

Photogrammetry Method

- Where the two options above were not possible due to access constraints, photogrammetry was used to compute the location of the dwelling. Ariel orthophotos were sourced from Geovic with the ariel images flown on 20/01/2019. The image resolution was 0.15m. Using survey control established via GNSS Survey, these images were referenced to the local site using control points/features. Redundant measurements were made to confirm the accuracy of the referencing. The resultant accuracy of the distances computed between points can be confirmed to be correct to +/- 1 metre.

CONCLUSION

I conclude that the South West corner of the dwelling at 110 Birds Road, Hedley, exceeds 1000 metres from the proposed location of the closest Wind Turbine described as GWT02.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT02	459315	5721623	3.64
GWT03	459650	5722924	8.62

CORNER	EASTING	NORTHING	DISTANCE TO GWT02	DISTANCE TO GWT03
North East	458521	5722411	Geodetic: 1118.6 m Plane: 1119.0 m	Geodetic: 1239.4 m Plane: 1239.8 m
South East	458519	5722405	Geodetic: 1115.9 m Plane: 1116.3 m	Geodetic: 1243.5 m
South West	458512	5722408	Geodetic: 1123.1 m	Geodetic: 1249.3 m
			Plane: 1123.5 m	Plane: 1249.8 m



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Equipment used: Trimble S6 DR Plus S/N 93210049 Calibrated at Cowwarr baseline 27/05/2022

Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Welshpool

Section B

Crown Allotment 22B

Municipality: South Gippsland Shire Council

Property: 5 James Road, Hedley 3967

Purpose of survey: To determine the linear distance between the Wind Turbine described as GWT03 and the dwelling described as N048.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

 Horizontal Datum: GDA94
 Vertical Datum: AHD

 Easting
 Northing
 RL
 C.S.F.

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Survey Methodology: The survey has been completed by adopting at least the minimum procedures as recommended by the Surveyor General Victoria.

GNSS (Global navigation Satellite System) Survey

- -Verify GNSS measurements by connecting to a registered survey control network (SCN) mark to achieve a vertical accuracy of less than 0.1m.
- To perform a minimum of two independent observations of a registered SCN mark to provide horizontal uncertainty of less than 0.025m for coordinated positions between surveyed observations.
- Compute the average MGA94 Zone 55 coordinates for all survey marks where the horizontal linear distance between any two observations does not exceed 0.05m.

Total Station (Conventional) Survey

- Where the above option was not possible due to access constraints, Total Station observations with a Trimble S6 Total Station using direct reflex (DR) measurements were used to locate the dwelling. Using a control established via GNSS Survey, radiations were observed to the relevant dwelling corners. The GNSS control was confirmed by directly measuring distances and angles between control marks. The linear distance accuracy should not exceed 0.05m and the angular accuracy should not exceed 10". The radiations were confirmed by a second independent measurement.

Photogrammetry Method

- Where the two options above were not possible due to access constraints, photogrammetry was used to compute the location of the dwelling. Ariel orthophotos were sourced from Geovic with the ariel images flown on 20/01/2019. The image resolution was 0.15m. Using survey control established via GNSS Survey, these images were referenced to the local site using control points/features. Redundant measurements were made to confirm the accuracy of the referencing. The resultant accuracy of the distances computed between points can be confirmed to be correct to +/- 1 metre.

CONCLUSION

I conclude that the North East corner of the dwelling at 5 James Road, Hedley, exceeds 1000 metres from the proposed location of the closest Wind Turbine described as GWT03.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT03	459650	5722924	8.62

CORNER	EASTING	NORTHING	DISTANCE TO GWT03	
North East	458740	5723600	Geodetic: 1133.5 m Plane: 1133.9 m	
South East	458729	5723589	Geodetic: 1135.8 m Plane: 1136.2 m	



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Surveyors Reference: 2102213

Equipment used: Trimble S6 DR Plus S/N 93210049 Calibrated at Cowwarr baseline 27/05/2022

Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Alberton West

Lot 2 PS506513

Municipality: Wellington Shire Council

Property: 67 Lanes Road, Gelliondale 3971

Purpose of survey: To determine the linear distance between the Wind Turbines described as GWT05 & GWT06 and the dwelling described as N068.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

Horizontal Datum: GDA94 Vertical Datum: AHD Easting Northing RL C.S.F.

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Survey Methodology: The survey has been completed by adopting at least the minimum procedures as recommended by the Surveyor General Victoria.

GNSS (Global navigation Satellite System) Survey

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Total Station (Conventional) Survey

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Photogrammetry Method

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CONCLUSION

I conclude that the South West & South East corner of the dwelling at 67 Lanes Road, Gelliondale, exceeds 1000 metres from the proposed location of the closest Wind Turbines described as GWT05 & GWT06.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT05	462866	5723392	8.85
GWT06	463555	5723271	8.32

CORNER	EASTING	NORTHING	DISTANCE TO GWT05	DISTANCE TO GWT06	
South West	463386	5724313	Geodetic: 1057.8 m Plane: 1058.2 m	Geodetic: 1055.3 m Plane: 1055.7 m	
South East	463399	5724313	Geodetic: 1063.8 m Plane: 1064.2 m	Geodetic: 1053.1 m Plane: 1053.5 m	



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Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Alberton West

Allotment 13B1 TP321954

Municipality: Wellington Shire Council

Property: 7666 South Gippsland Highway, Gelliondale 3971

Purpose of survey: To determine the linear distance between the Wind Turbine described as GWT09 and the dwelling described as N121.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

 Horizontal Datum: GDA94
 Vertical Datum: AHD

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GNSS (Global navigation Satellite System) Survey

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Total Station (Conventional) Survey

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Photogrammetry Method

- Where the two options above were not possible due to access constraints, photogrammetry was used to compute the location of the dwelling. Ariel orthophotos were sourced from Geovic with the ariel images flown on 20/01/2019. The image resolution was 0.15m. Using survey control established via GNSS Survey, these images were referenced to the local site using control points/features. Redundant measurements were made to confirm the accuracy of the referencing. The resultant accuracy of the distances computed between points can be confirmed to be correct to +/- 1 metre.

CONCLUSION

I conclude that the South West corner of the dwelling at 7666 South Gippsland Highway, Gelliondale, exceeds 1000 metres from the proposed location of the closest Wind Turbine described as GWT09.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT09	465168	5723721	6.13

CORNER	EASTING	NORTHING	DISTANCE TO GWT09	
South West	466025	5724442	Geodetic: 1120.0 m Plane: 1120.4 m	
North West	466025	5724456	Geodetic: 1129.4 m Plane: 1129.8 m	



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Crown description of land: Parish of Yarram Yarram

Lot 2 PS619484

Municipality: Wellington Shire Council

Property: 81 Blackshaws Road E, Alberton 3971

Purpose of survey: To determine the linear distance between the Wind Turbines described as **GWT10** & **GWT11** and the dwelling described

as **N0135**.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

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GNSS (Global navigation Satellite System) Survey

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Total Station (Conventional) Survey

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Photogrammetry Method

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CONCLUSION

I conclude that the South West & South East corner of the dwelling at 81 Blackshaws Road, Alberton, exceeds 1000 metres from the proposed location of the closest Wind Turbines described as GWT10 & GWT11.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT10	466840	5726262	9.38
GWT11	467329	5725914	8.32

CORNER	EASTING	NORTHING	DISTANCE TO GWT10	DISTANCE TO GWT11	
South West	467667	5726996	Geodetic: 1106.4 m Plane: 1106.8 m	Geodetic: 1134.1 m Plane: 1134.5 m	
South East	467688	5726997	Geodetic: 1122.3 m Plane: 1122.7 m	Geodetic: 1141.2 m Plane: 1141.7 m	



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Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Alberton West

Lot 3 PS603015

Municipality: Wellington Shire Council

Property: 189B Ti Tree Road

Purpose of survey: To determine the linear distance between the Wind Turbine described as GWT13 and the dwelling described as N146.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

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 Vertical Datum: AHD

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GNSS (Global navigation Satellite System) Survey

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Total Station (Conventional) Survey

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Photogrammetry Method

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CONCLUSION

I conclude that the North East & North West corner of the dwelling at 189B Ti Tree Road, Alberton, exceeds 1000 metres from the proposed location of the closest Wind Turbine described as GWT13.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT13	467574	5724242	4.50

CORNER	EASTING	NORTHING	DISTANCE TO GWT13	
North East	468417	5723350	Geodetic: 1226.7 m Plane: 1227.2 m	
North West	468387	5723331	Geodetic: 1221.3 m Plane: 1221.8 m	



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Leica Viva GNSS Rover S/N GS15-1502051

Crown description of land: Parish of Alberton West

Lot 2 PS603015

Municipality: Wellington Shire Council

Property: 189A Ti Tree Road

Purpose of survey: To determine the linear distance between the Wind Turbine described as GWT13 and the dwelling described as N147.

Date of survey: 6th June 2022

Connection to permanent marks: This survey has connected to Alberton East PM 4

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 Vertical Datum: AHD

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GNSS (Global navigation Satellite System) Survey

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Total Station (Conventional) Survey

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Photogrammetry Method

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CONCLUSION

I conclude that the North West & South West corner of the dwelling at 189A Ti Tree Road, Alberton, exceeds 1000 metres from the proposed location of the closest Wind Turbine described as GWT13.

ID	EASTING	NORTHING	SURVEYED ELEVATION
GWT13	467574	5724242	4.50

CORNER	EASTING	NORTHING	DISTANCE TO GWT13	
North West	468415	5723417	Geodetic: 1177.9 m Plane: 1178.4 m	
South West	468413	5723405	Geodetic: 1185.1 m Plane: 1185.5 m	