

MEETING NOTES

Job Title	BioTherm Wind EIA's
Project Number	47579
DEA Reference Number:	14/12/16/3/3/2/963 – Maralla West WEF 14/12/16/3/3/2/967 – Esizayo WEF 14/12/16/3/3/2/962 – Maralla East WEF
Date	22 February 2017
Time	14:00
Venue	The Court House, Matjiesfontein
Subject	Landowner Meeting for the Transmission Lines
Client	BioTherm Energy (Pty) Ltd
Present	See Appendix A
Apologies	Mr and Mrs van Zyl Mr Andries Le Roux
Distribution	As above

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ACTION

AS

MATTERS ARISING

1.0 WELCOME AND INTRODUCTION

- 1.1 Ashlea Strong (AS) welcomed the land owner and an informal round of introductions was done.
- 1.2 Ashlea Strong explained that as only Mr Francois Conradie (FC) was present this would be an informal discussion. We would focus on his particular concerns.

2.0 PROJECT OVERVIEW

- 2.1 AS explained why we have had to split the 3 x WEF and the 2 x BA's for the Transmission Lines. The Transmission lines will be handed over to Eskom once construction is complete.
- 2.2 We are doing the Basic Assessment's this is the start of the process.

3.0 TECHNICAL DESCRIPTION & LOCATION

- 3.1 Three Proposed wind farms:
 - Esizayo
 - → Maralla East
 - → Maralla West

AS explained the locations of each of the wind farms as per the Map attached as **Appendix B**.

We started off with 125 turbines per project, using the results of the specialist studies we have reduced it to 56 turbines.

4.0 ALTERNATIVES

- 4.1 AS: Preferred alternative for Esizayo is the route in yellow on Map on Presentation (**Appendix B**).
- 4.2 Due to the fact that the preferred corridor follows the existing road as far as possible it should have limited impact on your farm.
- 4.3 FC: Do you choose one or do you want to build all three? You don't have a preferred one.

 MATTERS ARISING ACTION ASI: No. The three WEFs are three separate projects and Biotherm wants to build all three ASI: Explained the proposed powerline route for Maralla route as per the presentation (Appendix B). ASI: BioTherm are proposing to install double circuit structures so that you can run two lines from one structure. We don't know if it needs two circuits yet so we will use one side and Eskom could possible use the other. FC: There are so many powerlines on my farm. Eskom or any other company putting up powerlines need to make a plan to try reduce the number of powerlines on my larm. Eskom or any other company putting up powerlines and the read. This is better from an environmental point of space on the ground and doesn't need any anchors or guy wires. ASI: To reduce the impact of the powerlines (and supporting access roads) the lines will be placed parallel to the road. This is better from an environmental point of view. Also reduces the risk of erosion. FC: explained that there have been petitions going around from the weekend "wealthier farmers" as they don't want the Wind Farms but the people that farm the lands want them as they bring economic opportunities to the area. IMPACTS ASI went over the impacts associated with the WEF. High significance for bats High significance for visual - not much you can do to mitigate ASI showed the landowner the various explained where the planned projects are in relation to his farm. ASI the map of the other planned facilities is not 100% correct. It is uploaded by the DEA but has not been updated. AS showed the cumulative impact are low. We will have something similar in the basic assessment for the powerlines. We WTFORWARD ASI showed the way forward and explained that the EIA and BA processes are running simultaneously, however the BA process is			
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7.3 FC: Yes, this has been happening for 10 years now		AS: Laingsburg seem positive but they are tired of people coming and talking about wind farms and then nothing ever comes of it.	
7.4 FC: We have some of the best wind in the country, why are so few projects	7.3	FC: Yes, this has been happening for 10 years now.	

- 7.4 FC: We have some of the best wind in the country, why are so few projects actually being approved here?
- 7.5 MY: I think they only discovered Laingsburg later than the other areas so its still to recent.
- 7.6 FC: No they have been proposing projects in the area for almost 10 years now.

MATTERS ARISING

- 7.7 AS: For the REIPPPP you submit your best cost to sell back to the government. It might be that building on a hilly topography is more expensive due to the cost of construction.
- 7.8 FC: When is the next Bidding round?
- 7.9 MY: Unfortunately, we do not know at this stage. We do all this work at risk as we need to have this all in place so that if there is a round 5 we have everything ready to submit.
- 7.10 AS confirmed that the landowner is on the stakeholder database and will receive communication going forward.

8.0 CLOSING

8.1 AS thanked the landowner for coming and closed the meeting at 14:00.

NEXT MEETING

No further meetings are anticipated.

ACTION

Appendix A: Attendance Register

Proposed BioTherm Wind Energy Developments in the Northern and Western Cape BioTherm Energy (Pty) Ltd Landowner Meeting – 22 February 2017 / 14:00 – 16:00

ATTENDANCE REGISTER 22 February 2017

Bronuyn Fisher WSP Environnerdel Tel: 021 451 5.062 Fax: 021 451 5.062 Fax: 053 327 9316 Email: Bronuyn Fisher Europpyrep: 05 Email: Bronuyn Fisher Europpyrep: 05 Fax: Mobile: 043: 5571 817 Fax: Mobile: 043: 5571 817 Fax: Mobile: 043: 5571 817 Fax: Mobile: 643: 643: 643: 643: 643: 643: 643: 643	Name	FARM Company-Name	Contact Details	Signature
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Email: Eronumy. Fisher Queggy Sould Data S. Email: Bronumy. Fisher Queggy Sould Data S. Tel: 0.2.3 · SST/ 8/7 Kax: Mobile: Mobile: Fax: BioThern Energy Mobile: BioThern Energy Mobile: Fax: Mobile: Fax:<)		Mobile: 083 327 9316	NA
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Proposed BioTherm Wind Energy Developments in the Northern and Western Cape BioTherm Energy (Pty) Ltd Landowner Meeting – 22 February 2017 / 14:00 – 16:00

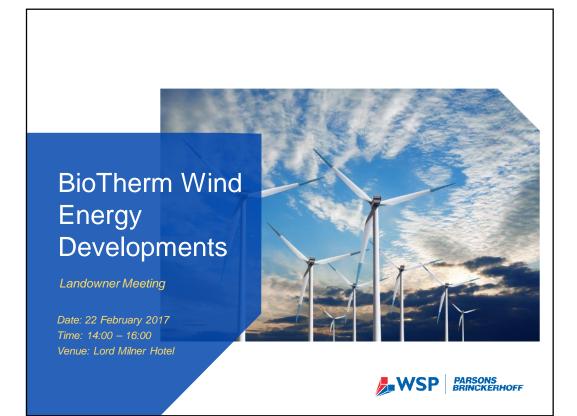
ATTENDANCE REGISTER 22 February 2017

Name	Company-Name	Contact Details	Signature
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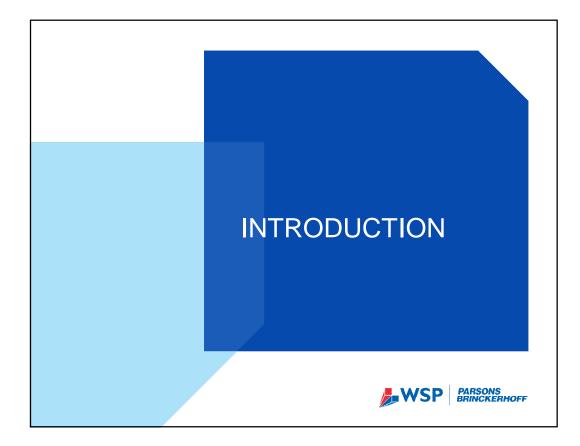
www.wspenvironmental.co.za

WSP PARSONS BRINCKERHOFF

Appendix B: Presentation









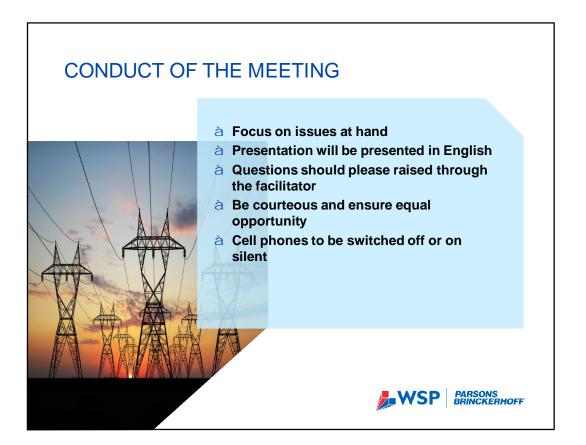
PURPOSE OF THE MEETING

Provide stakeholders with information regarding: § The proposed project

- § The Environmental Impact Assessment (EIA) process to date
- § Findings of the Draft Environmental Impact Report (DEIR)
- Provide stakeholders with the opportunity to raise issues regarding the potential impacts of the project on the environment
- Provide an opportunity for stakeholders to interact with the project team

WSP

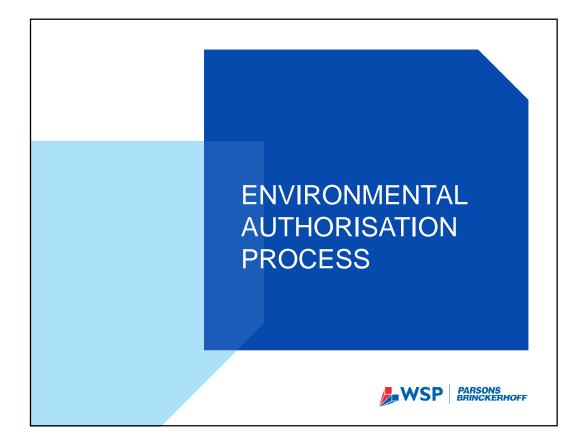
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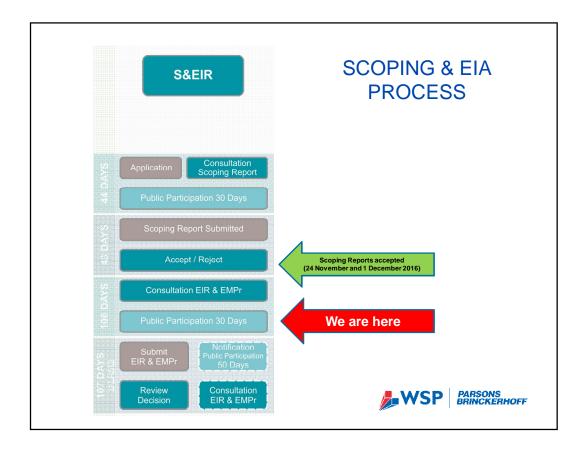


RESPONSIBILITIES

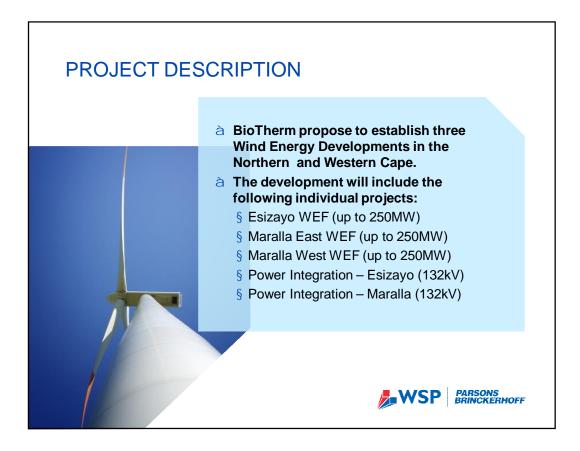
Roleplayer	Responsibility
Applicant (BioTherm)	 Appoint suitable, independent EAP Ensure adequate resources are available to conduct an effective, efficient & equitable S&EIR process Ensure that the EAP is provided with relevant information to undertake the S&EIR process effectively Ensure that the EAP provides all relevant information to the Authorities
EAP (WSP)	 Be independent with no vested interest Have the necessary qualifications & experience Responsible for authorisation process, information & reports Provide relevant & objective information to the authorities, the stakeholders & the proponent Ensure public participation process (PPP) is undertaken Ensure all issues raised are addressed or responded to
	BRINCKERHOFF

Roleplayer	Responsibility
Stakeholders	 Provide input & comment during the S&EIR process Review of reports Draft Scoping Report (DSR) Environmental Impact Report (EIR) Environmental Management Programme (EMPr) Provide input & comment within specific timeframes
Decision-making Authority (Department of Environmental Affairs)	 Efficient & expedient in evaluating proposals Compliance with regulatory requirements Inter-departmental co-operation & consultation Consultation with the Applicant & the Consultant Evaluation/review & decision-making Requiring sufficient detail to make informed decisions

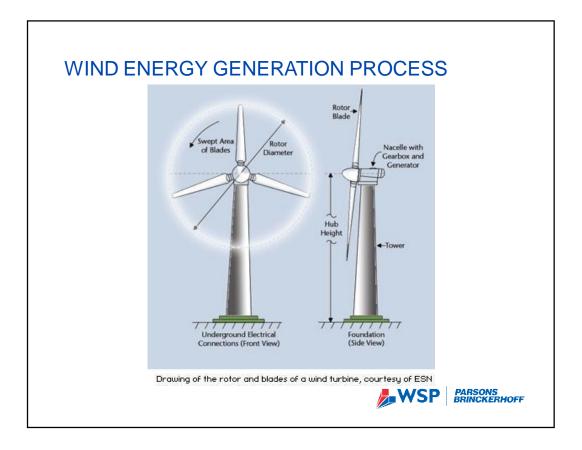








Generation Capacity	Up to 250 MW
Number of turbines	Up to 125 (Revised Layout includes 56 Turbines)
Area occupied by each turbine	0.5 ha (85m x 60m)
Turbine hub height	Up to 120m
Rotor Diameter	Up to 150m
Width of internal roads	Between 4.0m and 6.0m, however this may increase to 8m on bends
Footprint of internal onsite substation	150m x 150m
Onsite substation capacity	Up to 132kV
Width of the powerline servitude	31m (15.5m either side)
Powerline tower types and height	Tower (suspension / strain) / Steel monopole structure, which may be self-supported or guyed suspension.



PROJECT LOCATION

Esizayo Development Location

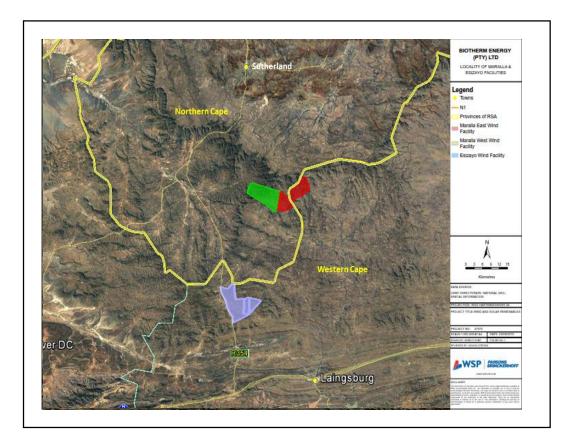
FARM NAME & NUMBER	Farm size (ha)	
Portion 1 of Aanstoot Farm No. 72	762.42 ha	
Annex Joseph's Kraal Farm No.84	913.32 ha	
Aurora Farm No. 285	4 385.29 ha	

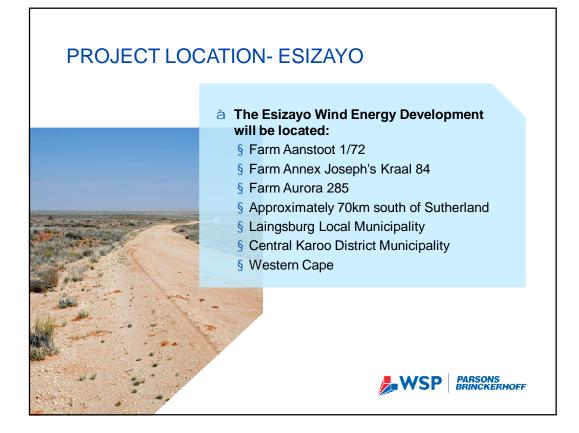
Maralla East Development Location

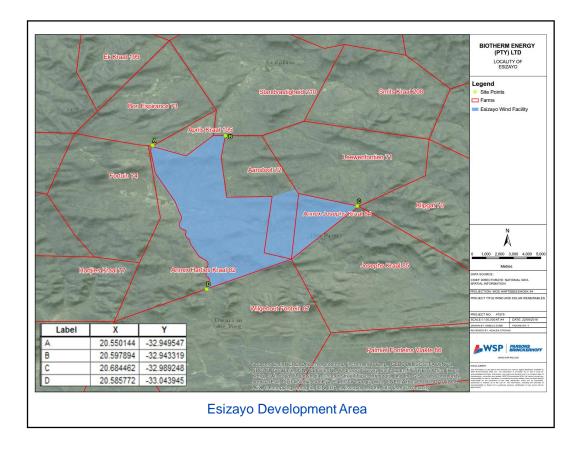
FARM NAME & NUMBER	Farm size (ha)
Farm Welgemoed 268, Remainder	2 649 ha
Farm Schalkwykskraal 204, Remainder	1 056 ha
Farm Drie Roode Heuvels 180, Remainder	3 929 ha

Maralla West Development Location

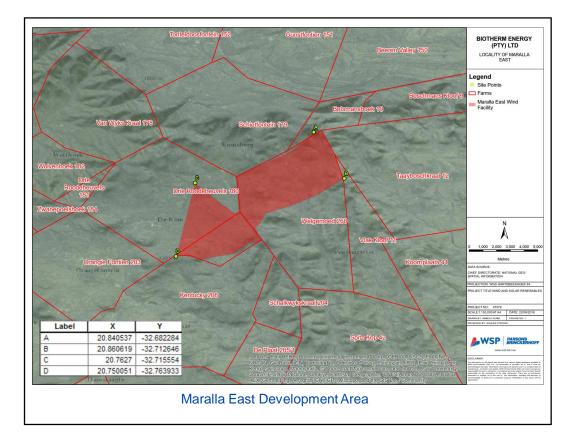
FARM NAME & NUMBER	Farm size (ha)
Farm Drie Roode Heuvels 180, Remainder	3 929 ha
Farm Annex Drie Roode Heuvels 181, Remainder	329 ha
Farm Wolven Hoek 182, Portion 1	763 ha
Farm Wolven Hoek 182, Portion 2	625 ha



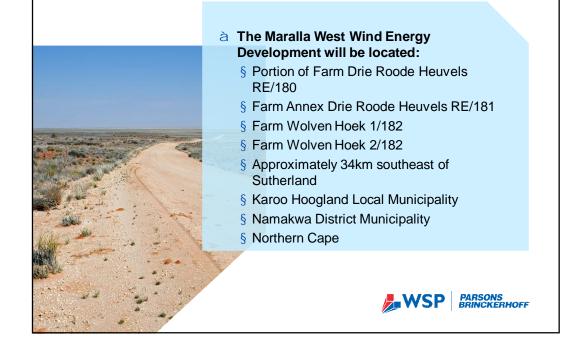


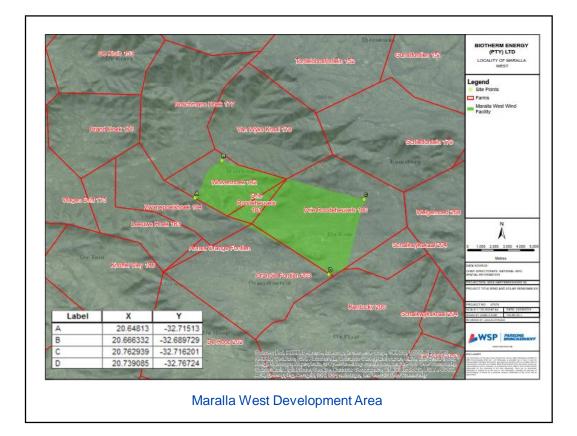


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PROJECT LOCATION- MARALLA WEST







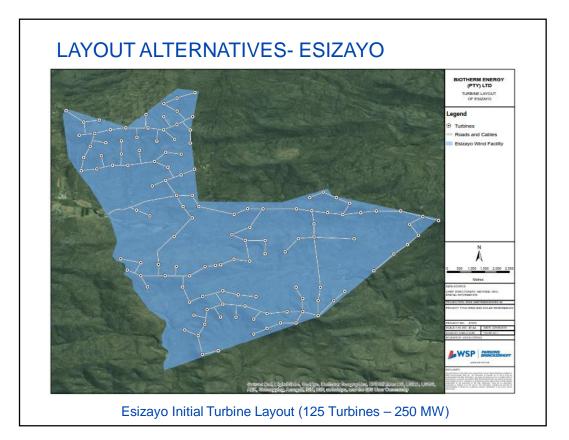
LEGAL REQUIREMENTS	
Relevant Act	Competent Authority
National Environmental Management Act (No. 107 of 1998) (NEMA)	Department of Environmental Affairs (DEA)
An environmental authorisation is required prior to the establishment of the Propose	d Projects
A full S&EIR Process is required to be conducted for the WEF Projects	
• A Basic Assessment is required to be conducted for the power integration projects	
Listed Activities triggered under Government Notice Regulation (GNR) 983, 984 and	1985 of 2014
National Water Act (No. 36 of 1998)	Department of Water and Sanitation
The following water uses have been identified as potentially applicable:	
• Section 21 (a) and 21 (b)	
• Section 21 (c) and 21 (i)	
Water Use Licence or General Authorisation required prior to the establishment of th	e Proposed Projects
National Environmental Management: Biodiversity Act, 2004 (No. 10 of 2004)	
• The are Critical Biodiversity Areas (CBAs) in the study areas.	
National Heritage Resource Act (No. 25 of 1999)	
A Heritage Impact Assessment (HIA) will be undertaken looking at Archaeology, Her mentioned projects	itage and Palaeontology for each of the above
Renewable Energy Development Zone	
The project areas fall within the Komsberg Wind REDZ	

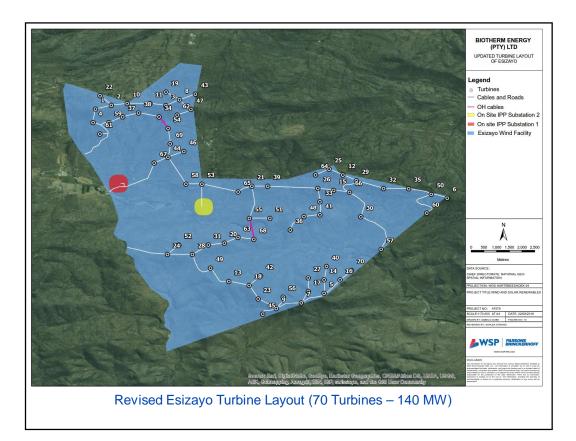
Relevant Water Use	Description	Applicability
Section 21 (a)	Taking water from a water resource	In the event that ground water abstraction is required for operational activities
Section 21 (b)	Storage of raw water	In the event that the storage of raw water is required for operational activities
Section 21 (c)	Impeding or diverting the flow of water in a watercourse	In the event that the powerlines or
Section 21 (i)	Altering the bed, banks course or characteristics of a water course	access roads cross a watercourse, drainage line or wetland area or if a turbine is constructed within 500m of a watercourse, drainage line or wetland

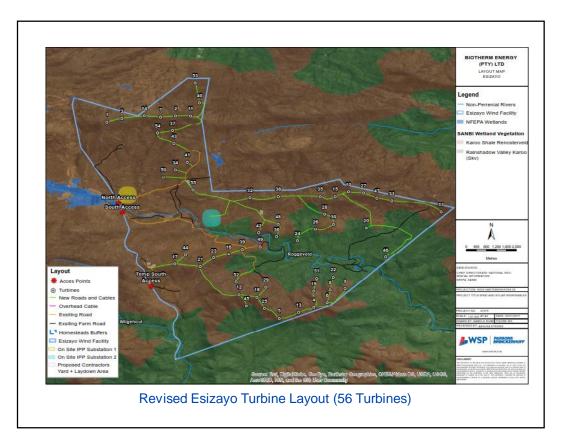
Project Name	Listing Notice	Activit	ies Triggere	ed				
Maralla West,	GNR 983	11(i)	12 (xii) (a&c)	19(i)	24(ii)	28(ii)	30	56
Maralla	GNR 984	1	15	-	-	-	-	-
East and Esizayo	GNR 985	4	10	12	14	18	23 (iii)	-
Power	GNR 983	11(i)	12 (xii) (a&c)	19(i)	27	28(ii)	30	-
Integration	GNR 985	4	12	14	-	-	-	-

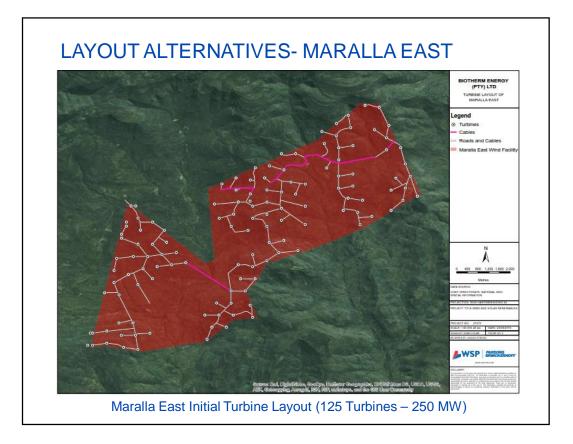


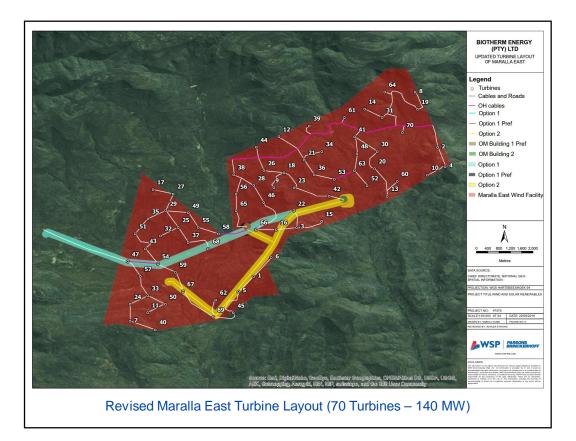
DEVELOPMENTAREAALTERNATIVES	
Site Selection was based on the following factors:	
-Google Earth SANBI BGIS -FEPA, SEA -Other EIAs	
Resources Factors •Satellite Data •Onsite Measurements	
Current Capacity Future Capacity Stability Substations/Powerlines	
•Climate •Topography •Site Acess •Competition •Existing Environmental Authorisations	
Land Owner Approachability -Land Owner Approachability -Compensation -Competition -Competition -Competition -Competition -Competition -Competition -Competition -Competition	

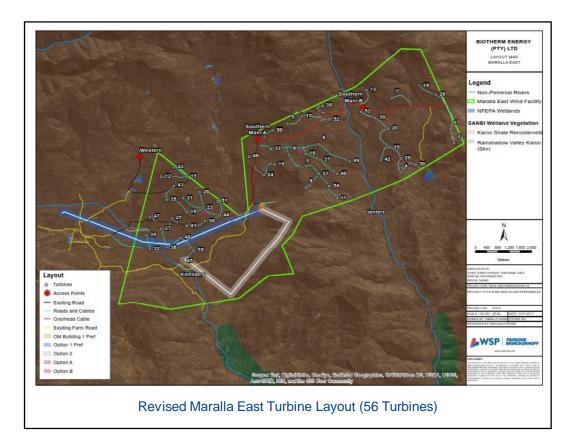


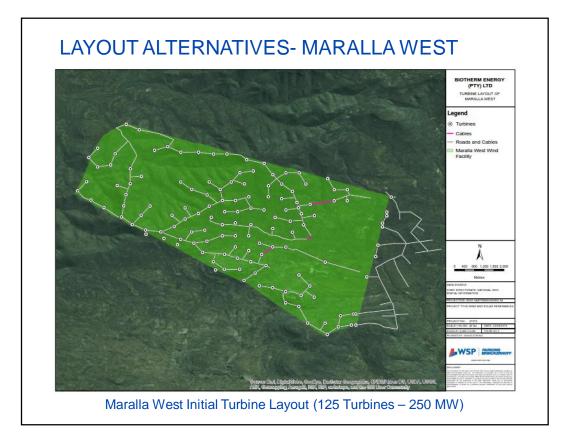


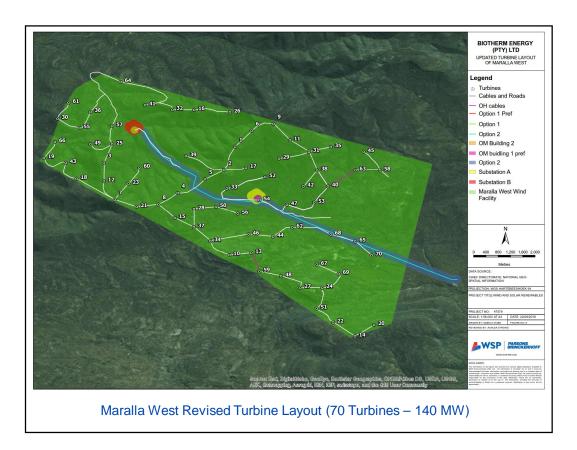


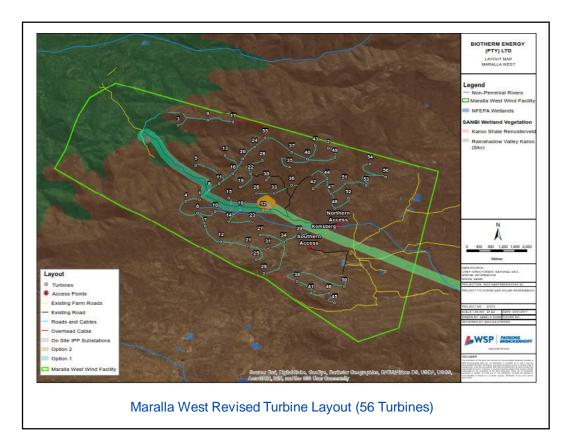


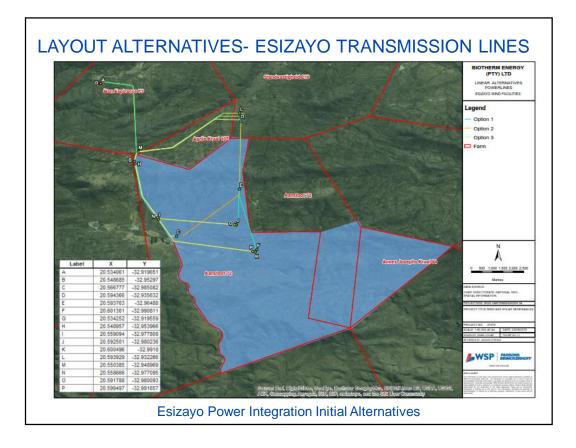


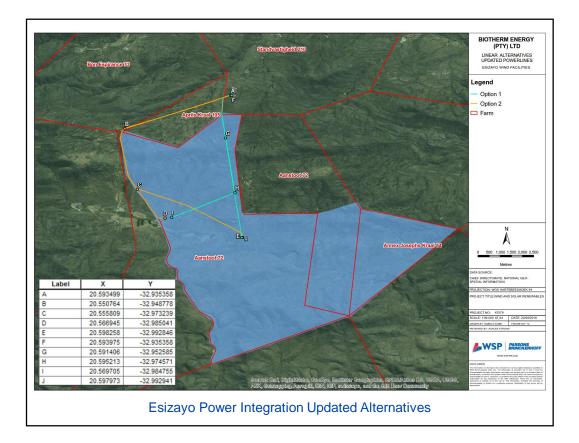


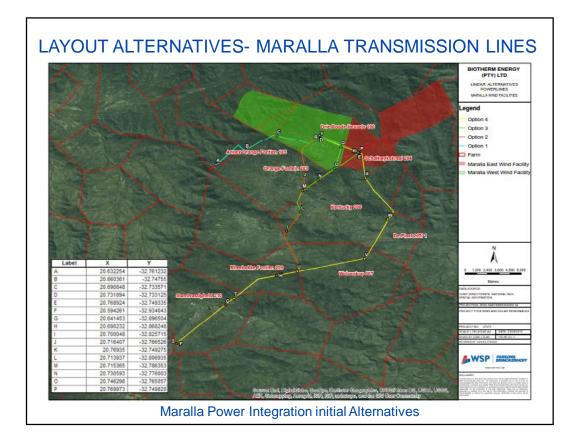


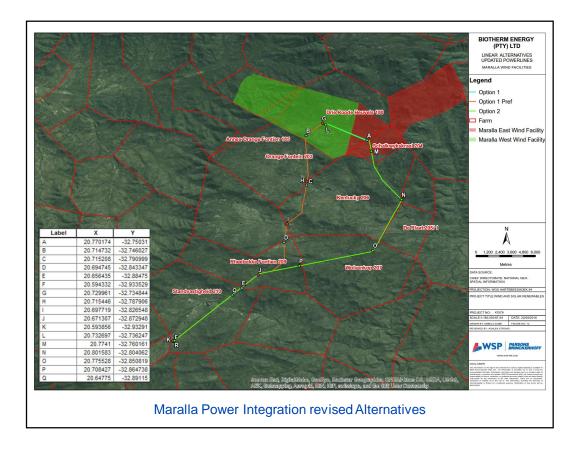














Specialist Field	COMPANY NAME	TEAM MEMBERS	ASSESSMENT IN EIA PHASE
Soil, Land Capability and Wetlands	WSP Environmental (Pty) Ltd	Bruce Wickham, Gerg Matthews	Yes
Biodiversity	Simon Todd Consulting	Simon Todd	Yes
Avifauna	Chris van Rooyen Consulting	Chris van Rooyen, Albert Froneman	Yes
Heritage	ACO Associates	Tim Hart, Lita Webley, David Halkett	Yes
Palaeontology	Natura Viva	John Almond	Yes
Visual	-	Belinda Gebhardt	Yes
Social	WSP Environmental (Pty) Ltd	Danielle Sanderson, Hillary Konigkramer	Yes
Traffic	WSP Group Africa (Pty) Ltd	Christo Bredenhann	Yes
Noise	WSP Environmental (Pty) Ltd	Kirsten Collett	Yes

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
SLC1	Loss of land (including wetlands) previously used for grazing.		Negative	Medium	Low
SLC2	Vegetation clearance, soil disturbance and high traffic movement on site, resulting in a higher potential for soil erosion	Construction	Negative	Low	Low
SLC3	Potential spillage of hazardous substances		Negative	Low	Low
SLC4	Loss of land (including wetlands) previously used for grazing.		Negative	Medium	Low
SLC5	Vegetation clearance, soil disturbance, and increased traffic movement on site, resulting in a higher potential for soil erosion	Operation	Negative	Low	Low
SLC6	Potential land contamination from hazardous substances		Negative	Low	Low
SLC7	Increased potential of soil erosion due to soil disturbance and a high traffic movement on site.	De-	Negative	Low	Low
SLC8	Potential spillage of hazardous substances	commissioning	Negative	Low	Low

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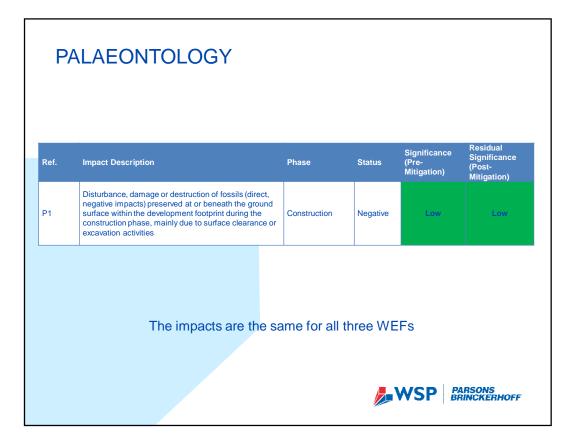
Ref.	Impact Description	Phase	Status	Significance (Pre-Mitigation)	Residual Significance (Post-Mitigation)
BIO1	Impacts on vegetation and protected plant species		Negative	Medium	Medium
BIO2	Faunal impacts due to construction activities	Construction	Negative	Medium	Medium
BIO3	Increased Soil Erosion risk during construction		Negative	Medium	Low
BIO4	Faunal impacts due to operational activities of the wind farm such as noise, and human presence during maintenance activities	Operation	Negative	Medium	Medium
BIO5	Erosion	-	Negative	Medium	Low
BIO6	Alien Plant Invasion	-	Negative	Low	Low
BIO7	Faunal impacts due to decommissioning of the wind farm such as noise, and operation of heavy machinery on-site	De- commissioning	Negative	Medium	Low
BIO8	Erosion	commissioning	Negative	Medium	Low
BIO9	Alien Plant Invasion]	Negative	Medium	Low

				Esizay	o WEF	Maralla Eas W	st and We EF
Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)	Significanc e (Pre- Mitigation)	Residual Significar e (Post- Mitigatior
AV1	Displacement of priority species due to disturbance during construction operations	Construction	Negative	Medium	Medium	Medium	Medium
AV2	Priority species mortality due to collision with the turbines		Negative	High	Medium	High	Medium
AV3	Displacement of priority species due to habitat transformation	Operation	Negative	Medium	Low	Medium	Low
AV4	Priority species mortality due to collision with the on-site powerlines		Negative	Medium	Medium	High	Medium
AV5	Priority species mortality due to electrocution on the on-site powerlines		Negative	Medium	Low	Medium	Low
AV6	Displacement of priority species due to disturbance during decommissioning operations	De- commissioning	Negative	Low	Low	Low	Low

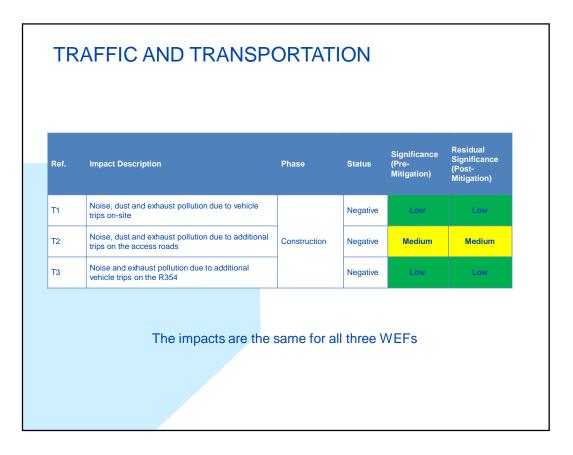
Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
BAT1	Destruction of bat roosts due to earthworks and blasting -	Construction	Negative	Medium	Low
BAT2	Loss of foraging habitat.	1	Negative	Medium	Low
BAT3	Bat mortalities due to direct blade impact or barotrauma during foraging activities (not migration).	Operation	Negative	High	Medium
BAT4	Artificial Lighting		Negative	Medium	Low
BAT5	Loss of foraging habitat.	De- commissioning	Negative	Medium	Low
	The impacts are the s	ame for all t		EFs WSP	PARSONS

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
SW1	Alterations of flow regimes of watercourses,		Negative	Medium	Low
SW2	Increased potential of soil erosion due to vegetation clearance, soil disturbance and a high traffic movement on site. Subsequent potential sedimentation of watercourses.	Construction	Negative	Low	Low
SW3	Potential land contamination from hazardous substances		Negative	Low	Low
SW4	Temporary potential degradation of wetland habitat due to the proposed positioning of road access		Negative	Medium	Low
SW5	Alterations of flow regimes of watercourses		Negative	Medium	Low
SW6	Increased potential of soil erosion due to vegetation clearance, and more run-off from harden surfaces (i.e. roads). Subsequent potential sedimentation of watercourses.	Operation	Negative	Low	Low
SW7	Potential land contamination from hazardous substances.		Negative	Low	Low
SW8	Alterations of flow regimes of watercourses, in close proximity to the site, or that is proposed to be traversed by roads.		Negative	Medium	Low
SW9	Increased potential of soil erosion due to soil disturbance and a high traffic movement on site.	De- commissioning	Negative	Low	Low
SW10	Potential land contamination from hazardous substances.		Negative	Low	Low

Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
ESIZAY	0				
H1	Impacts to buried archaeological material and graves		Negative	Low	Low
H2	Substation 1 will result in the destruction of South African War Military Outpost	Construction	Negative	Medium	Low
H3	Access road ,au damage or destroy the Nuwerus Cemetery		Negative	Medium	Low
MARAL	LA EAST				
H1	Impacts to ruined settlement and graveyard on public access road through De KOM		Negative	Medium	Low
H2	Impacts to late Stone Age sites along river bed	Construction	Negative	Medium	Low
H3	Impacts to the Farm House of Wolvenhoek		Negative	Medium	Low
MARAL	LA WEST	1			
H1	Impacts to a graveyard on the Komsberg River, Sckalkwykskraal		Negative	Medium	Low
H2	Impacts to a 19 th centuary stone stockpost and kraal on the Komsberg River, Sckalkwukskraal	Construction	Negative	Medium	Low
H3	Impacts to graves and a rock art site on Venters River, Welgemoed		Negative	Medium	Low

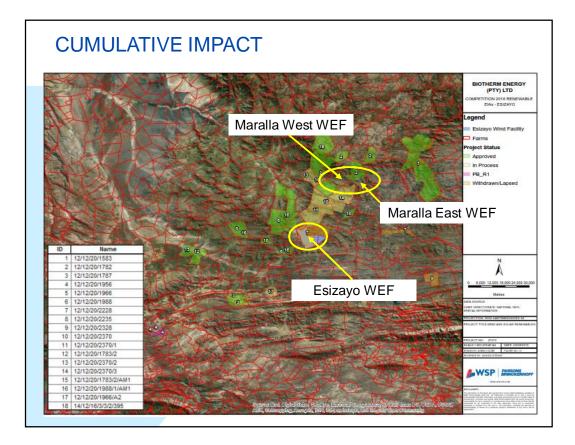


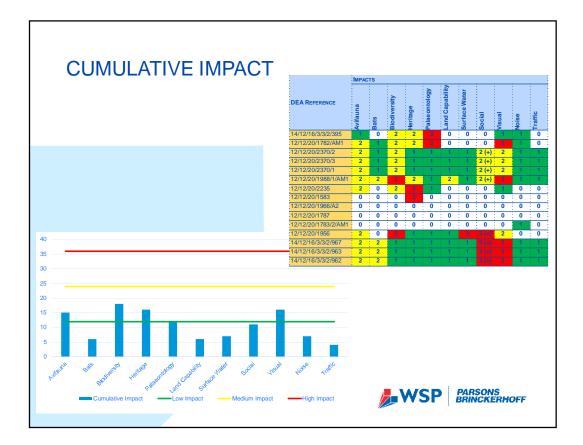
Ref.	Impact Description	Phase	Status	Significance (Pre- Mitigation)	Residual Significance (Post- Mitigation)
V1	Visual impact during construction due to dust, vehicles and equipment		Negative	Medium	Low
V2	Visual impact during construction due to vegetation clearing	Construction	Negative	Medium	Low
V3	Visual impact during construction on landforms		Negative	Medium	Low
V4	Intrusion on sense of place and rural landscape		Negative	Medium	Medium
V5	Visual impact of wind turbines		Negative	High	Medium
V6	Visual impact of substation and other buildings and infrastructure	Operation	Negative	Medium	Medium
V7	Visual impact of shadow flicker		Negative	Low	Low
V8	Visual impact of lighting from facility		Negative	Medium	Medium
V9	Visual impact of additional roads and road widening		Negative	Low	Low
V10	Visual impact during decommissioning due to dust, vehicles and equipment	De- commissioning	Negative	Medium	Low
	The impacts are the sa	ame for all t	_		PARSONS

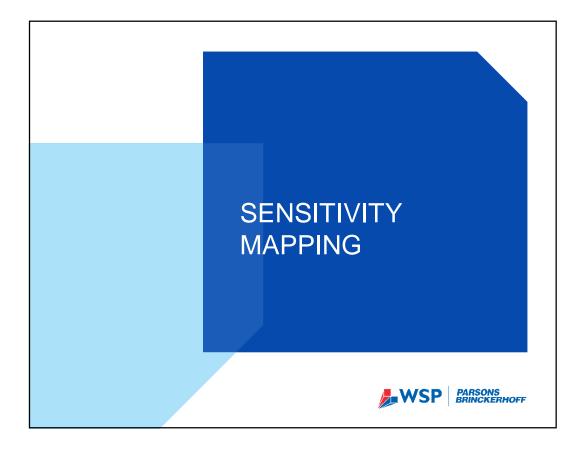


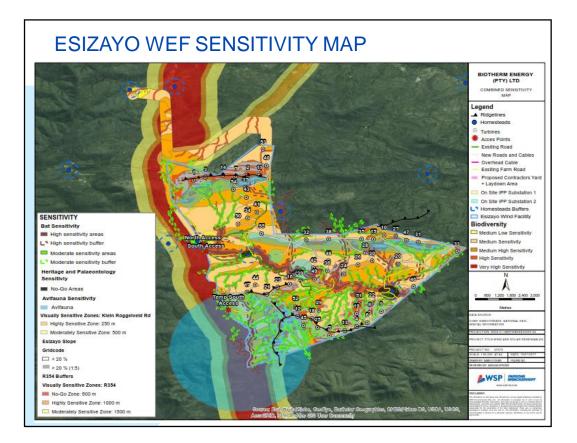
					Maralla West EF		East WEF Residual
Ref.	Impact Description	Phase	Status	Significanc e (Pre- Mitigation)	Residual Significanc e (Post- Mitigation)	Significan ce (Pre- Mitigation)	Significa ce (Post- Mitigatio)
N1	Acoustic impact on residential receptors	Construction	Negative	Medium	Low	Medium	Low
N2	Acoustic impact on residential receptors	Operation	Negative	Medium	Low	Low	Low
N3	Acoustic impact on residential receptors	De- commissioning	Negative	Medium	Low	Medium	Low

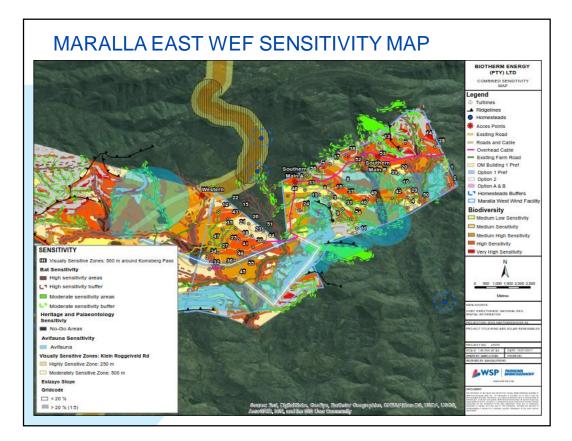
Ref.	Impact Description	Phase	Status	Significance (Pre-Mitigation)	Residual Significance (Post-Mitigation)
SE1	Increase in Employment Opportunities	Construction	Positive	Medium	High
SE2	Increased Economic Development Opportunities		Positive	Medium	High
SE3	Disruption due to influx of job seekers		Negative	Medium	Medium
SE4	Increase in communicable diseases and reduced public health		Negative	Medium	Medium
SE5	Change in sense of place		Negative	Medium	Low
SE6	Nuisance from noise, dust and traffic disturbances		Negative	Medium	Low
SE7	Increased risk to neighbouring land users		Negative	Low	Low
SE8	Increased risk of veld fires		Negative	Medium	Low
SE9	Increased employment opportunities	Operation	Positive	Medium	High
SE10	Increased economic development opportunities		Positive	Medium	Medium
SE11	Change in sense of place		Negative	Medium	Medium
SE12	Loss of permanent employment	De-	Negative	Medium	Low
SE13	Gain of short term employment	commissioning	Positive	Low	Medium
SE14	Nuisance from dust, noise and traffic		Negative	Low	Low
SE15	Increased risk to neighbouring land users		Negative	Low	Low
SE16	Increased risk of veld fires		Negative	Medium	Low

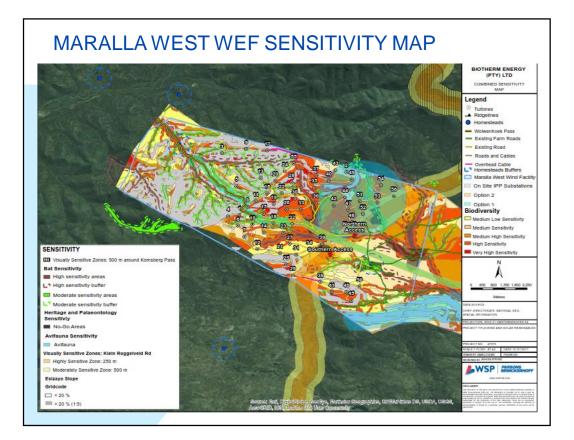














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Pre-Application	Newspaper Adverts	P	
	Submit Application	P	
	Notification of IAPS	P	
Scoping	Newspaper Adverts	Р	
	Site Notices	Р	
	Draft Scoping Report – 30 days	Р	
	Submit Final Scoping Report	Р	
EIA	EIR – 30 Days	P	
	Submit EIR for Decision		
Appeal	Notification of decision		
	Appeal Process		

PUBLIC PARTICIPATION PROCESS TO DATE



à The Public Participation process has consisted of:

- § Pre-application Consultation with DEA
- § Newspaper adverts in:
 - The Courier (9 September 2016)
 - Die Noordwester (8 September 2016)
- § Email notification of I&APs
- § Site Notices placed at the entrance to the site
- § DSR for 30 day public review
- § Public Meetings
 - 29 September 2016 Laingsburg
 - 30 September 2016 Sutherland
- § DEIR for 30 day public review
- § Public Meetings
 - 23 February 2017 Matjiesfontein
 - 24 February 2017 Sutherland

WSP

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Activity	Anticipated Timeframe	
Stakeholder Meetings	21 – 24 February 2017	
Close of public review period	2 March 2017	
Finalisation of DEIR and submission to authorities	3 - 28 March 2017	
Authority review	31 March – 17 July 2017	
Receipt of Environmental Authorisation (EA)	Mid – end July 2017	
Appeal Period	20 days from receipt of the EA	

