

**Appendix**

**J**

**ADDITIONAL INFORMATION**

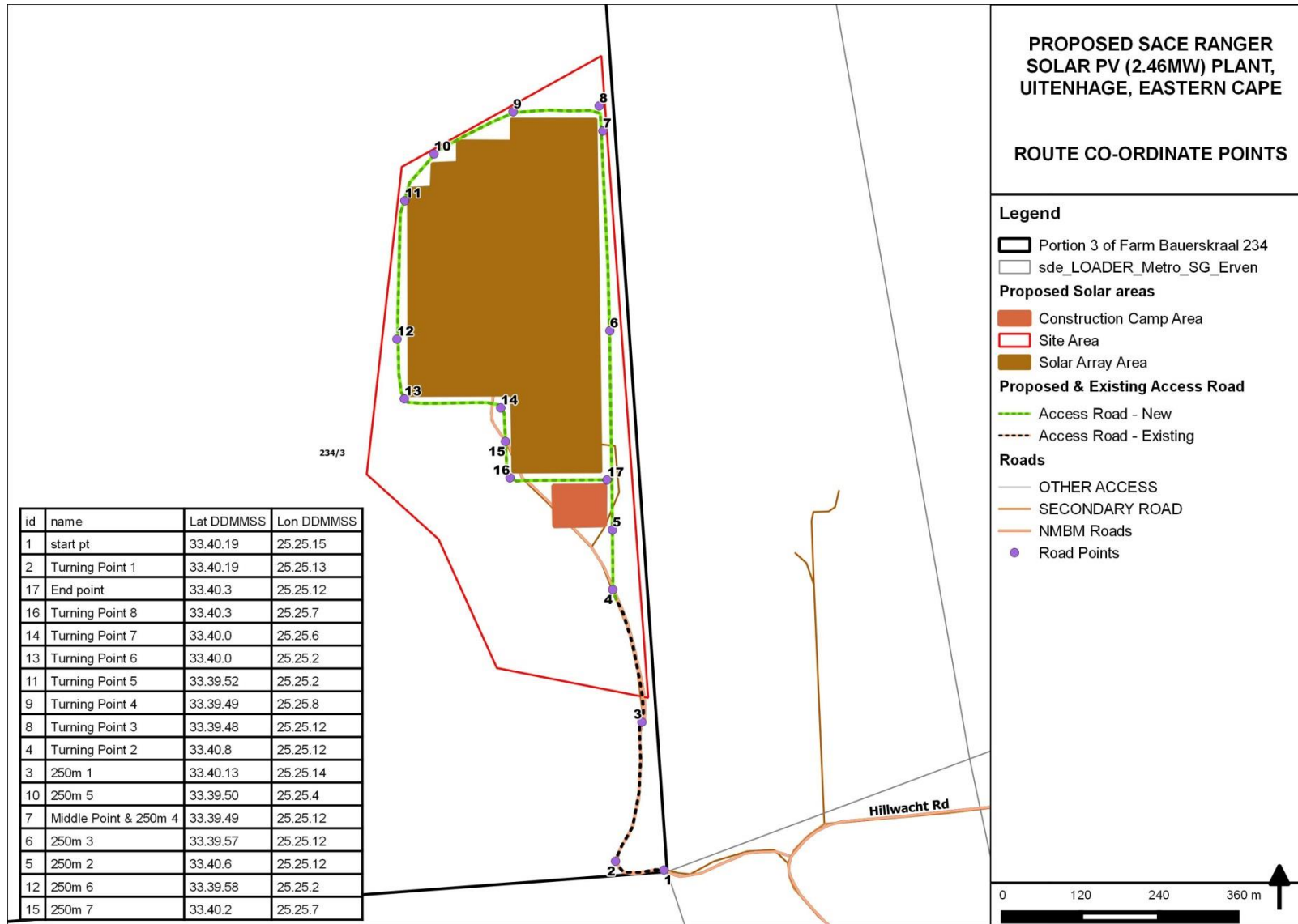
# Appendix J-1

## ROUTES LONGER THAN 500M AND ADDITIONAL POINTS

### Access Road Alternative 1 (Preferred)

Refer to **Figure 1** hereafter indicating the co-ordinates (250m and turning points) of the route.

Point	Description	Latitude (S) DDMMSS			Longitude (E) DDMMSS		
		DD	MM	SS	DD	MM	SS
1	Start Point	33	40	19	25	25	15
2	Turning Point 1	33	40	19	25	25	13
3	250m 1	33	40	13	25	25	14
4	Turning Point 2	33	40	8	25	25	12
5	250m 2	33	40	6	25	25	12
6	250m 3	33	39	57	25	25	12
7	Middle Point & 250m 4	33	39	49	25	25	12
8	Turning Point 3	33	39	48	25	25	12
9	Turning Point 4	33	39	49	25	25	8
10	250m 5	33	39	50	25	25	4
11	Turning Point 5	33	39	52	25	25	2
12	250m 6	33	39	58	25	25	2
13	Turning Point 6	33	40	0	25	25	2
14	Turning Point 7	33	40	1	25	25	7
15	250m 7	33	40	2	25	25	7
16	Turning Point 8	33	40	3	25	25	7
17	End Point	33	40	3	25	25	12



**Figure 1: 250m route markers and corners**

# Appendix

# J-2

## LIST OF PLANT SPECIES (INDIGENOUS AND EXOTIC) IDENTIFIED ON SITE

Family	Species	Red List of South African Plants version 2013.1	Conservation of Agricultural Resources Act 43 of 1983	Eastern Cape Environmental Conservation Act of 2003	Eastern Province Nature and Environmental Conservation Ordinance of 1974	National Forests Act No. 84 of 1998
<b>Species in RED – exotics</b>						
<b>Species in GREEN – protected plants/trees and SCC's</b>						
ACANTHACEAE	<i>Barleria irritans</i> Nees	LC				
ACANTHACEAE	<i>Barleria pungens</i> L.f.	LC				
ACANTHACEAE	<i>Blepharis procumbens</i> (L.f.) Pers.	LC				
ACANTHACEAE	<i>Chaetacanthus setiger</i> (Pers.) Lindl.	LC				
ACANTHACEAE	<i>Thunbergia capensis</i> Retz.	LC				
AMARYLLIDACEAE	<i>Brunsvigia gregaria</i> R.A.Dyer	LC		Schedule 5 Protected	Schedule 4 Protected	
AMARYLLIDACEAE	<i>Cyrtanthus obliquus</i> (L.f.) Aiton	Declining		Schedule 5 Protected	Schedule 4 Protected	
ANACARDIACEAE	<i>Loxostylis alata</i> A.Spreng. ex Rchb.	Declining				
ANACARDIACEAE	<i>Searsia glauca</i> (Thunb.) Moffett	LC				
ANACARDIACEAE	<i>Searsia longispina</i> (Eckl. & Zeyh.) Moffett	LC				
ANACARDIACEAE	<i>Searsia pallens</i> (Eckl. & Zeyh.) Moffett	LC				
ANACARDIACEAE	<i>Searsia pterota</i> (C.Presl) Moffett	LC				
ANACARDIACEAE	<i>Searsia tomentosa</i> (L.) F.A.Barkley	LC				
APOCYNACEAE	<i>Carissa bispinosa</i> (L.) Desf. ex Brenan	LC		Schedule 5 Protected	Schedule 4 Protected	
APOCYNACEAE	<i>Fockea edulis</i> (Thunb.) K.Schum.	LC		Schedule 5 Protected	Schedule 4 Protected	
APOCYNACEAE	<i>Pachypodium bispinosum</i> (L.f.) A.DC.	LC		Schedule 5 Protected	Schedule 4 Protected	
APOCYNACEAE	<i>Stapelia grandiflora</i> Masson	LC		Schedule 5 Protected	Schedule 4 Protected	
ARALIACEAE	<i>Cussonia spicata</i> Thunb.	LC				

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<b>Species in RED – exotics</b>						
<b>Species in GREEN – protected plants/trees and SCC's</b>						
ASPARAGACEAE	<i>Asparagus capensis</i> L. var. <i>capensis</i>	LC				
ASPARAGACEAE	<i>Asparagus crassicaudus</i> Jessop	LC				
ASPARAGACEAE	<i>Asparagus racemosus</i> Willd.	LC				
ASPHODELACEAE	<i>Aloe ferox</i> Mill.	LC				
ASPHODELACEAE	<i>Haworthia glauca</i> Baker var. <i>herrei</i> (Poelln.) M.B.Bayer	DDT		Schedule 5 Protected	Schedule 4 Protected	
ASTERACEAE	<i>Arctotis acaulis</i> L.	LC				
ASTERACEAE	<i>Chrysocoma ciliata</i> L.	LC				
ASTERACEAE	<i>Elytropappus rhinocerotis</i> L.f.	LC				
ASTERACEAE	<i>Felicia fascicularis</i> DC.	LC				
ASTERACEAE	<i>Helichrysum rosum</i> (P.J.Bergius) Less.	LC				
ASTERACEAE	<i>Helichrysum zeyheri</i> Less.	LC				
ASTERACEAE	<i>Metalasia muricata</i> (L.) D.Don	LC				
ASTERACEAE	<i>Oedera genistifolia</i> (L.) Anderb. & K.Bremer	LC				
ASTERACEAE	<i>Osteospermum imbricatum</i> L.	LC		Schedule 5 Protected		
ASTERACEAE	<i>Senecio chrysocoma</i> Meerb.	LC				
ASTERACEAE	<i>Senecio hirtifolius</i> DC.	CR PE		Schedule 5 Protected		
ASTERACEAE	<i>Senecio ilicifolius</i> L.	LC				
ASTERACEAE	<i>Senecio linifolius</i> L.	LC				
ASTERACEAE	<i>Tarchonanthus camphoratus</i> L.	LC				
ASTERACEAE	<i>Ursinia nana</i> DC. subsp. <i>nana</i>	LC				
BORAGINACEAE	<i>Ehretia rigida</i> (Thunb.) Druce	LC				
BORAGINACEAE	<i>Lobostemon trigonus</i> (Thunb.) H.Buek	LC				
CACTACEAE	<i>Opuntia ficus-indica</i> (L.) Mill.	NE	Category 1 Declared weed			
CAMPANULACEAE	<i>Lobelia tomentosa</i> L.f.	LC				
CAMPANULACEAE	<i>Wahlenbergia nodosa</i> (H.Buek) Lammers	LC				
CELASTRACEAE	<i>Gymnosporia capitata</i> (E.Mey. ex Sond.) Loes.	LC				
CELASTRACEAE	<i>Gymnosporia polyacanthus</i> (Sond.) Szyszyl. subsp. <i>polyacanthus</i>	LC				
CELASTRACEAE	<i>Maytenus undata</i> (Thunb.) Blakelock	LC				
CELASTRACEAE	<i>Mystroxydon aethiopicum</i> (Thunb.) Loes. subsp. <i>aethiopicum</i>	LC		Schedule 5 Protected		
CELASTRACEAE	<i>Pterocelastrus tricuspidatus</i> (Lam.) Walp.	LC		Schedule 5 Protected		
CELASTRACEAE	<i>Putterlickia pyracantha</i> (L.) Szyszyl.	LC				

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<b>Species in RED – exotics</b>						
<b>Species in GREEN – protected plants/trees and SCC's</b>						
COMMELINACEAE	<i>Cyanotis speciosa</i> (L.f.) Hassk.	LC				
CRASSULACEAE	<i>Crassula</i> sp.					
CRASSULACEAE	<i>Crassula cultrata</i> L.	LC				
CRASSULACEAE	<i>Crassula ericoides</i> Haw. subsp. <i>ericoides</i>	LC				
CRASSULACEAE	<i>Crassula mesembryanthoides</i> (Haw.) D.Dietr.	LC				
CRASSULACEAE	<i>Crassula ovata</i> (Mill.) Druce	LC				
CRASSULACEAE	<i>Crassula perfoliata</i> L. var. <i>minor</i> (Haw.) G.D.Rowley	LC		Schedule 5 Protected	Schedule 4 Protected	
CYPERACEAE	<i>Cyperus</i> sp.					
EBENACEAE	<i>Diospyros dichrophylla</i> (Gand.) De Winter	LC				
EBENACEAE	<i>Diospyros scabrida</i> (Harv. ex Hiern) De Winter	LC				
EBENACEAE	<i>Euclea polyandra</i> (L.f.) E.Mey. ex Hiern	LC				
EBENACEAE	<i>Euclea schimperi</i> (A.DC.) Dandy	LC				
EBENACEAE	<i>Euclea undulata</i> Thunb.	LC				
EUPHORBIACEAE	<i>Euphorbia ledienii</i> A.Berger	LC				
EUPHORBIACEAE	<i>Euphorbia mauritanica</i> L.	LC				
EUPHORBIACEAE	<i>Euphorbia rhombifolia</i> Boiss.	LC				
EUPHORBIACEAE	<i>Jatropha capensis</i> (L.f.) Sond.	LC				
FABACEAE	<i>Acacia cyclops</i> A.Cunn. ex G.Don	NE	Category 2 Declared invader			
FABACEAE	<i>Acacia karroo</i> Hayne	LC				
FABACEAE	<i>Acacia meamsii</i> De Wild.	NE	Category 2 Declared invader			
FABACEAE	<i>Acacia saligna</i> (Labill.) H.L.Wendl.	NE	Category 2 Declared invader			
FABACEAE	<i>Aspalathus aciphylla</i> Harv.	LC				
FABACEAE	<i>Aspalathus cinerascens</i> E.Mey.	LC				
FABACEAE	<i>Aspalathus hystrix</i> L.f.	LC				
FABACEAE	<i>Indigofera denudata</i> L.f.	LC				
FABACEAE	<i>Schotia afra</i> (L.) Thunb. var. <i>afra</i>	LC				
FABACEAE	<i>Schotia latifolia</i> Jacq.	LC				
FABACEAE	<i>Tephrosia capensis</i> (Jacq.) Pers.	LC				
GERANIACEAE	<i>Pelargonium odoratissimum</i> (L.) L'Hér.	LC		Schedule 5 Protected		
HYACINTHACEAE	<i>Albuca</i> sp.					
HYACINTHACEAE	<i>Ledebouria ensifolia</i> (Eckl.) S.Venter & T.J.Edwards	LC				
HYACINTHACEAE	<i>Sansevieria hyacinthoides</i> (L.) Druce	LC				

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<b>Species in RED – exotics</b>						
<b>Species in GREEN – protected plants/trees and SCC's</b>						
IRIDACEAE	<i>Aristea</i> sp.			Schedule 5 Protected	Schedule 4 Protected	
IRIDACEAE	<i>Babiana sambucina</i> (Jacq.) Ker Gawl. subsp. <i>sambucina</i>	LC		Schedule 5 Protected	Schedule 4 Protected	
IRIDACEAE	<i>Bobartia orientalis</i> J.B.Gillett subsp. <i>orientalis</i>	LC		Schedule 5 Protected	Schedule 4 Protected	
IRIDACEAE	<i>Tritoniopsis antholyza</i> (Poir.) Goldblatt	LC		Schedule 5 Protected	Schedule 4 Protected	
MALVACEAE	<i>Grewia occidentalis</i> L. var. <i>occidentalis</i>	LC				
MALVACEAE	<i>Hermannia althaeoides</i> Link	LC				
MALVACEAE	<i>Hermannia saccifera</i> (Turcz.) K.Schum.	LC				
MALVACEAE	<i>Hermannia salviifolia</i> L.f.	LC				
MALVACEAE	<i>Hermannia velutina</i> DC.	LC				
MALVACEAE	<i>Hibiscus pusillus</i> Thunb.	LC				
MESEMBRYANTHEMACEAE	<i>Lampranthus</i> sp.			Schedule 5 Protected	Schedule 4 Protected	
MESEMBRYANTHEMACEAE	Mesemb 1			Schedule 5 Protected	Schedule 4 Protected	
MESEMBRYANTHEMACEAE	<i>Ruschia</i> sp.			Schedule 5 Protected	Schedule 4 Protected	
MONTINIACEAE	<i>Montinia caryophyllacea</i> Thunb.	LC				
MORACEAE	<i>Ficus burtt-davyi</i> Hutch.	LC				
MYRTACEAE	<i>Eucalyptus camaldulensis</i> Dehnh.	NE	Category 2 Declared invader			
OLEACEAE	<i>Olea europaea</i> L. subsp. <i>africana</i> (Mill.) P.S.Green	LC		Schedule 5 Protected		
PHYLLANTHACEAE	<i>Flueggea verrucosa</i> (Thunb.) G.L.Webster	LC				
PLUMBAGINACEAE	<i>Plumbago auriculata</i> Lam.	LC				
POACEAE	<i>Aristida congesta</i> Roem. & Schult. subsp. <i>congesta</i>	LC				
POACEAE	<i>Brachiaria serrata</i> (Thunb.) Stapf	LC				
POACEAE	<i>Eragrostis capensis</i> (Thunb.) Trin.	LC				
POACEAE	<i>Eragrostis curvula</i> (Schrad.) Nees	LC				
POACEAE	<i>Eustachys paspaloides</i> (Vahl) Lanza & Mattei	LC				
POACEAE	<i>Melinis repens</i> (Willd.) Zizka subsp. <i>repens</i>	LC				
POACEAE	<i>Setaria sphacelata</i> (Schumach.) Stapf & C.E.Hubb. ex M.B.Moss	LC				
POACEAE	<i>Themeda triandra</i> Forssk.	LC				
PORTULACACEAE	<i>Portulacaria afra</i> Jacq.	LC				
RHAMNACEAE	<i>Phyllica axillaris</i> Lam.	LC				
RHAMNACEAE	<i>Scutia myrtina</i> (Burm.f.) Kurz	LC				
RUBIACEAE	<i>Coddia rudis</i> (E.Mey. ex Harv.)	LC				

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<b>Species in RED – exotics</b>						
<b>Species in GREEN – protected plants/trees and SCC's</b>						
	Verdc.					
RUBIACEAE	<i>Psydrax obovata</i> (Eckl. & Zeyh.) Bridson subsp. <i>obovata</i>	LC				
RUTACEAE	<i>Zanthoxylum capense</i> (Thunb.) Harv.	LC		Schedule 5 Protected		
SALICACEAE	<i>Dovyalis rhamnoides</i> (Burch. ex DC.) Burch. & Harv.	LC				
SANTALACEAE	<i>Osyris compressa</i> (P.J.Bergius) A.DC.					
SAPINDACEAE	<i>Pappea capensis</i> Eckl. & Zeyh.	LC		Schedule 5 Protected		
SAPOTACEAE	<i>Sideroxylon inerme</i> L. subsp. <i>inerme</i>	LC		Schedule 5 Protected		Protected
SCROPHULARIACEAE	<i>Jamesbrittenia tysonii</i> (Hiem) Hilliard	LC				
SCROPHULARIACEAE	<i>Selago dolosa</i> Hilliard	LC				
SCROPHULARIACEAE	<i>Selago</i> sp.					
SINOPTERIDACEAE	<i>Cheilanthes hirta</i> Sw. var. <i>hirta</i>	LC				
SINOPTERIDACEAE	<i>Pellaea calomelanos</i> (Sw.) Link var. <i>calomelanos</i>	LC				
SOLANACEAE	<i>Solanum tomentosum</i> L.	LC				
THYMELACEAE	<i>Gnidia</i> sp.					
THYMELACEAE	<i>Gnidia stypelioides</i> Meisn.	LC				
THYMELACEAE	<i>Passerina obtusifolia</i> Thoday	LC				
THYMELACEAE	<i>Struthiola parviflora</i> Bartl. ex Meisn.	LC				
VISCACEAE	<i>Viscum obovatum</i> Harv.	LC				
VITACEAE	<i>Rhoicissus tridentata</i> (L.f.) Wild & R.B.Drumm.	LC		Schedule 5 Protected		



# Appendix J-3

## ASSUMPTIONS, UNCERTAINTIES AND GAPS IN KNOWLEDGE

The following assumptions, uncertainties and gaps in knowledge were identified for this process:

### **1. EIA Process**

The EIA process is multi-disciplinary, which was informed by the project team. It is thus necessary to presume that the information as provided to the project team to date by external sources is accurate, appropriate and correct.

Data shown in the maps was supplied by various sources and was used after it was reviewed and verified where considered necessary. Verification was, however, restricted to available sources of information only.

### **2. Public Participation Process**

Every effort was made to contact and provide written notification to all stakeholders and adjacent landowners within the study area. Written notification was provided to the landowner, occupiers of the land, adjacent landowners, the ward councillor and the NMBM. Information presented by the stakeholders is presumed to be accurate and presented timeously with respect to the process at hand.

**REFERENCE LIST**

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