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Annex 1 Corporate and Project Objectives

Annex 1.1 Corporate Objectives

Overview:

Chobe Agrivision is part of an investment company (the "Fund") whose vision is to create world-class farming operations and integrated businesses across the agricultural value chain, and to leave a legacy of responsible commercial agricultural practices in the region. The company's goals for the project include:

- Achieving economies of scale through the creation of service businesses along the value chain;
- Focusing on exporting food cross-border within Africa, building infrastructure throughout the region, and providing skill transfer at the local level;
- Acquiring brown field sites and significantly boost productivity, increasing production through a combination of farming techniques (improving soil quality through conservation tillage and crop rotation) and irrigation methods;
- Creating jobs and improving conditions for the farming workforce and their families:
- Offering a source of training within communities through outreach programmes and formal education, cultivating next generation of farm management from within the local communities;
- Providing small-scale farmers routes to market and access to infrastructure such as storage and milling.

Environmental, Social Responsibility and Environmental Risk Management Approach

The Fund shall use reasonable efforts to ensure that the following policies and guidelines are enforced.

The Fund's investments will strive to enhance economic development and have a positive impact on social advancement in the following manner:

(i) by fostering broad-based citizen economic empowerment in host countries beginning with indirect empowerment through employment, skill development, technology transfer and socio-economic capacity building. This is intended ultimately to lead to direct empowerment through equity ownership and management representation.

- (ii) by adopting the IFC's Exclusion List for future investments. The IFC Exclusion List defines the types of projects that the IFC will not finance. The Fund shall not invest in the following:
 - Production or trade in any product or activity deemed illegal under host country laws or regulations or international conventions and agreements, or subject to international bans, such as pharmaceuticals, pesticides/herbicides, ozone depleting substances, PCBs, wildlife or products regulated under the Convention on International Trade in Endangered Species (CITES).
 - Production or trade in weapons and munitions.
 - Production or trade in alcoholic beverages (excluding beer and wine).
 - Production or trade in tobacco.
 - Gambling, casinos and equivalent enterprises.
 - Production or trade in radioactive materials. This does not apply to the purchase of medical equipment, quality control (measurement) equipment and any equipment where IFC considers the radioactive source to be trivial and/or adequately shielded.
 - Production or trade in unbonded asbestos fibres. This does not apply to purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20 percent.
 - Drift net fishing in the marine environment using nets in excess of 2.5 km in length.
 - Production or activities involving harmful or exploitative forms of forced labour/harmful child labour.
 - Commercial logging operations for use in primary tropical moist forest.
 - Production or trade in wood or other forestry products other than from sustainably managed forests.
 - Production or activities that impinge on the lands owned, or claimed under adjudication, by indigenous peoples, without full documented consent of such peoples.

A reasonableness test will be applied when the activities of the project would have a significant development impact but circumstances of the country require adjustment to the Exclusion List.

The Fund shall use reasonable efforts to uphold the investment process to the same or equivalent standards as those set forth in the IFC, CDC, and DEG Environmental, Health and Safety guidelines. All projects in which the Fund invests shall to adhere to the Fund's framework.

Environmental Risk Management Policy

The Fund shall use reasonable efforts to ensure that Investments comply with local and international environmental guidelines in addition to the aforementioned guidelines.

The Fund is an agribusiness and food production fund which involves the use of agricultural chemicals and fertilisers. These products are registered and have been approved for use for annual crop production by the Ministry of Agriculture in the countries in which the Fund intends to operate. The Fund shall comply with the guidelines of the local Ministry of Agriculture or the appropriate regulatory body and be subject to the registration process for such chemicals to be used in this field. For example, the nature of crop production requires the use of fossil fuel for agricultural equipment; however such fuel will be used and stored in a manner that is compliant with local guidelines. Where local guidelines do not exist, the Fund shall adopt good international industry practice as recommended in the IFC Environmental, Health, and Safety Guidelines for Annual Crop Production. A copy of the guideline shall be made available to the management of the Fund's subsidiaries to ensure compliance.

The Fund's primary produce shall be processed and used largely in the domestic footprint of SADC. The Fund shall adopt the IFC Environmental, Health, and Safety Guidelines for Food and Beverage Processing. The Fund intends to adopt best practice in managing the environmental issues in food processing such as solid waste, wastewater, energy consumption and emissions to air. The Agricultural Advisor's management are pioneers in zero tillage practices and intend to employ and expand the use of conservation tillage practices to minimise the impact on global warming, and reduce carbon emissions.

The Fund's employment policy shall strictly adhere to the guidelines established by the Ministry of Agriculture of host country. There is also a broad based outline by the Ministry of Labour that covers all aspects of employment under the ministry of Agriculture. Where such guidelines do not exist in other countries, the Fund shall adopt the IFC Environmental, Health and Safety General Guidelines.

Annex 1.2 Project Objectives

CHOBE AGRIVISION CO LTD

Phone +260 211 292515

5th November, 2010

Letter of **Intent** - Cropit Farming, Mkushi.

Dear Sir,

We are proposing further developments in two phases on Whispering Hope Farm and Parklands Farm (adjoining properties on the right bank of the Munshiwemba River in Mkushi District), as described below.

Phasing

Phase 1 is proposed for immediate development.

Phase 2 is proposed for mid-20ll.

Proposed Developments

- 1. Proposed new irrigation holding dam of approximately 900,000m³ with an underground pipeline to supply it from the Masebe Dam of approximately 1, 000 m, serviced by a 315 kVa transformer. This pump house will also service the two proposed centre pivots for stage 1 of 70ha and 80 ha respectively. A 50 kVa feeder transformer for these two pivots is proposed. 2,300m of underground mainline will service these two pivots.
- 2. Proposed stage 2 development will be four centre pivots, two of 40ha and two of 60ha. These will be serviced by 2,7s0m of underground main line from the new irrigation holding dam described above. There will be a 315 kVa transformer at the base of the said dam to service the pumps to these centre pivots. A 200 kVa feeder transformer will service the pivots a well as an inline booster pump.
- 3. Parklands one extra 30ha pivot is proposed to complete the irrigation development on this farm.

Water Rights

The proposed new centre pivot irrigation will utilise existing water rights from the Masebe Dam, provide through membership of the Munshiwemba River Project consortium that was subject to a full EIA in 2005.

Land Clearing:

The following additional woodland clearance is anticipated to provide for new centre pivots:

Phase 1 (Whispering Hope Farm), approximately 80 ha of additional clearing to provide for the new 70 ha and 80 ha pivots

Phase 2 (Whispering Hope Farm), approximately 85 ha for the two new 60ha and two 40ha pivots

Phase 2 (Parklands Farm), approximately 15 ha of clearing to accommodate the additional 30ha pivot.

Roads:

Farm roads will need to be either relocated and/or constructed to accommodate the new developments (New roads to and around the new centre pivots will be required)

Housing

A number of new houses are proposed in the vicinity of the current homestead/farm yard on Whispering Hope for management. The on-going process of replacing pole and thatch houses labour housing with new brick houses and ventilated pit latrines will be continued without significant disruption to the woodland cover.

Boreholes:

Two boreholes are proposed for Whispering Hope to supplement existing domestic supplies.

We would appreciate your consideration of the above and advise on the level of environmental assessment required.

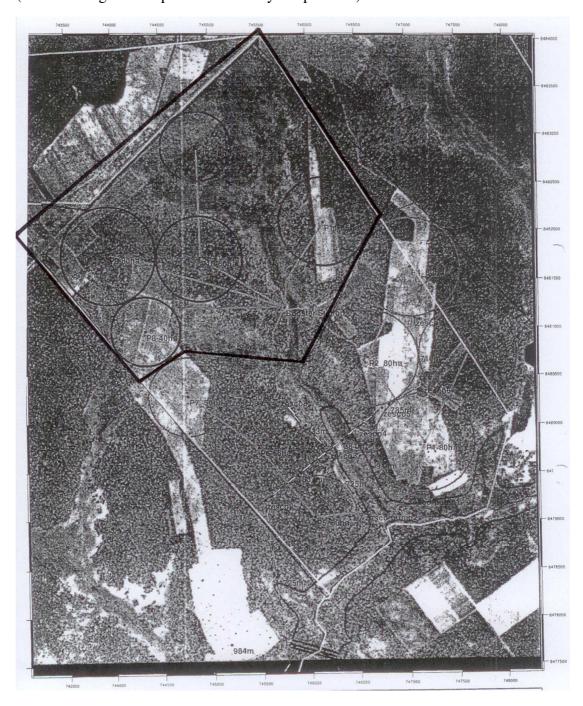
Yours faithfully,

F.D. Wallis. For &on behalf of Chobe Agrivision Co. Ltd. Mobile +260 0964 056131

Annex 1.3 Development Plan Diagrams

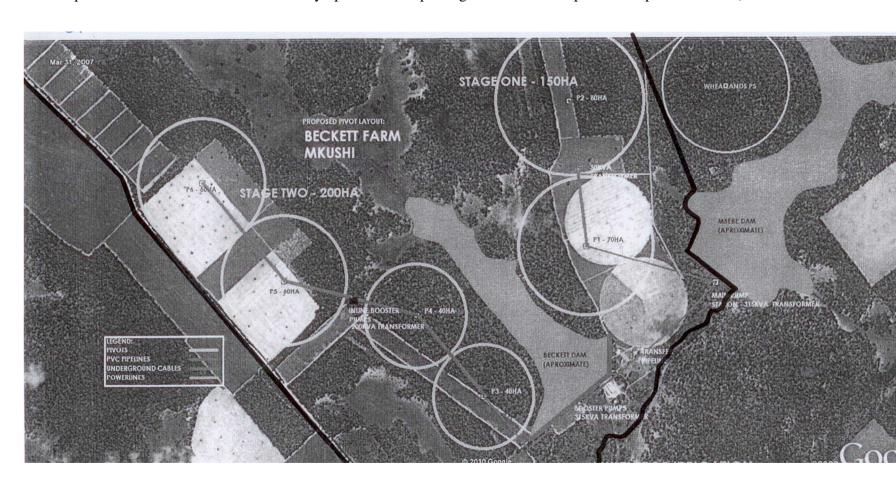
Annex 1.3.1 Parklands Farm Developments

(All three large centre pivots are already in operation)



Annex 1.3.2 Whispering Hope Developments

(The two large stage one centre pivots in the eastern corner are already operational- replacing the two smaller pivots that preceded them)



Annex 2 Environmental Impact Definitions

<u>Nature of impact</u> – positive or negative, direct or indirect

Duration

Temporary – very transient

Short term – only during the construction phase and

mitigated or disappears during that phase

Medium term – only lasting for the construction phase

Long term – impacts expending beyond the construction

phase, but progressively mitigated, or removed

by natural processes

Permanent – impacts that will change the environment, or

environmental processes on a permanent basis

Intensity Severity

Low - impact on the environment does not affect

natural processes in a significant way

Moderate - the environment is affected, but environmental

processes continue in a modified way

High - impact changes environmental processes

temporarily or permanently

Spatial extent

Project site - impacts limited to all, or part of the project

development area

Local area - impacts affecting areas outside he immediate

development area

Regional - impacts reaching well beyond the immediate

zone of the project

Probability

Uncertain - there is insufficient information to determine a

probability, but the uncertainty principle

increases the significance of the impact

Improbable - the impact is unlikely to occur

Probable - the impact is likely to happen and warrants

mitigating actions

Certain - the impact will be experienced and only

mitigating actions can alleviate it.

Significance

Negligible - impact likely to be insignificant and no

mitigating actions are required

Low - impact does not require revision on the

project design, but may warrant mitigation

Moderate - impacts are expected on the environment

and/or livelihoods and mitigation is required to minimise negative influences, or to maximise

positive outcomes

High - significant negative impacts are expected and

unless mitigating actions are possible to reduce the impacts, the project should be rejected or

significantly re-designed.

Annex 3 Multilateral Agreement Data

Annex 3.1 Restricted Hazardous Chemicals Listed Under the Rotterdam Convention

2,4,5-T and its salts and esters Aldrin Asbestos - Actinolite, Anthophyllite, Amosite, Crocidolite, and Tremolite only Benomyl (certain formulations) Binapacryl Captafol Carbofuran (certain formulations) Chlordane Chlordimeform Chlorobenzilate **DDT** Dieldrin Dinitro-ortho-cresol (DNOC) and its salts Dinoseb and its salts and esters 1,2-dibromoethane (EDB) Ethylene dichloride Ethylene oxide Fluoroacetamide Hexachlorocyclohexane (mixed isomers) Heptachlor Hexachlorobenzene Lindane Mercury compounds including inorganic and organometallic mercury compounds Methamidophos (certain formulations) Methyl parathion (certain formulations) Monocrotophos Parathion

Pentachlorophenol and its salts and esters

Phosphamidon (certain formulations)

Polybrominated biphenyls (PBB)

Polychlorinated biphenyls (PCB)

Polychlorinated terphenyls (PCT)

Tetraethyl lead

Tetramethyl lead

Thiram (certain formulations)

Toxaphene

Tris (2,3-dibromopropyl) phosphate (TRIS)

Substances Proposed for Addition to the Convention

Alachlor

Aldicarb

Chrysotile Asbestos

Endosulfan

Tributyl tin compounds

Annex 3.2 Persistent Organic Pesticides Listed Under the Stockholm Convention

LIST OF PERSISTENT ORGANIC POLLUTANTS IN THE STOCKHOLM CONVENTION

The chemicals targeted by the Stockholm Convention are listed in the annexes of the convention text:

Annex A (Elimination)

Parties must take measures to **eliminate** the production and use of the chemicals listed under Annex A.

Specific exemptions for use or production are listed in the Annex and apply only to Parties that

register for them.

	PESTICIDE	INDUSTRIAL CHEMICAL	BY=PRODUCT
Aldrin	✓	CHEMICAL	
Chlordane	✓		
Chlordecone	✓		
Dieldrin	✓		
Endrin	✓		
Heptachlor	✓		
Hexabromobiphenyl		✓	
Hexabromodiphenyl ether and Heptabromodiphenyl eth	ner	1	
Hexachlorobenzene (HCB)	1	✓	
Alpha hexachlorocyclohexar	ne 🗸		✓
Beta hexachlorocyclohexane	. 🗸		✓
Lindane	✓		
Mirex	✓		

	PESTICIDE	INDUSTRIAL CHEMICAL	BY=PRODUCT
Pentachlorobenzene	✓	1	
Polychlorinated biphenyls (Polychlorinated biphenyls)	CB)	1	
Tetrabromodiphenyl ether an pentabromodiphenyl ether	d	✓	
Toxaphene	✓		
Annex B (Restriction)			
Parties must take measures to under Annex B in light of any Annex.	-		
	PESTICIDE	INDUSTRIAL CHEMICAL	BY=PRODUCT
DDT	✓		
Perfluorooctane sufonic acid, its salts and Perfluorooctane sufonyi fluoride		✓	
Annex C (Unintentional	l production)	
Parties must take measures to under Annex C with the goal elimination.			
	PESTICIDE	INDUSTRIAL CHEMICAL	BY=PRODUCT
Polychlorinated dibenzo-p-di	oxins (PCDD)		✓
Polychlorinated dibenzofuran	as (PCDF)		✓
Hexachlorobenzene (HCB)			✓
Pentachlorobenzene			✓

LIST OF CHEMICALS PROPOSED FOR LISTING UNDER THE CONVENTION

Any Party may submit proposal for listing a new chemical in Annex A, B, or C of the Convention. The POPs Review Committee evaluates the proposals and makes recommendation to the Conference of the Parties on such listing. Currently following chemicals are under review:

Short-chained chlorinated paraffins Endosulfan Hexabromocyclododecane.

Annex 4 Photographic Record

Left to Right: Temporary and traditional housing, Parklands, and Beckett







Left to Right: Improved housing at Parklands, and Whispering Hope







Left to Right: Water provision Parklands, Whispering Hope and Beckett







Left to Right: Improved Sanitation at Parklands, Whispering Hope and Parklands managers' houses







Parklands Farm Infrastructure: left to right plant shed and grain silos





Storage of agricultural chemicals (no secure fence), seed and fertilizers





Farm bulk diesel supply



Parklands Farm: Raw water re-pumping station and Masebe Dam wall (the originally bulk water source for Parklands Farm)





Stabilising the downstream face of the Kampelembe Dambo night storage dam



Parklands Farm looking south from the main northern gate illustrating the valley slope, terrace and dambo head draining right into the Munshiwemba River and the extent of uninterrupted field area following extensive woodland clearing



Soil profiles on the Parklands and Whispering Hope Farms illustrating the largely undifferentiated nature of these soils, the low granular nature of soil structure and the existence of an organic horizon

Soils are (left) from the upper slope of Whispering Hope Farm, (centre) from the upper slope on Parklands Farm and (right) from the head of the Kampelembe Dambo on Parklands Farm (note presence of mottling in the lower horizon)







Annex 5 Materials Testing Results

Annex 5.1 Location of Soil Pits



Annex 5.2 Soil Testing Results (Analysed by the University of Zambia Soil Science Department)

Lab no.	Sample	Sample Id	pН	OM	P	K	Na	Ca	Mg	Cu	Fe	Mn
			CaCl ₂	%	mg/kg	cmol/kg	cmol/kg	cmol/kg	cmol/kg	mg/kg	mg/kg	mg/kg
20101978	P1/A	Parklands Northeast P1	5.26	1.68	6.06	0.15	0.05	1.97	1.36	0.65	20.20	16.06
20101979	P1/O	Parklands Northeast P1	4.46	0.16	23.77	0.16	0.04	1.06	0.27	0.64	7.62	19.44
20101980	P2/O	Parklands dambo P2	3.94	1.84	30.49	0.17	0.04	0.35	0.22	0.55	48.80	2.82
20101981	P2/A	Parklands dambo P2	3.56	0.40	0.28	0.07	0.04	0.12	0.06	0.56	9.88	0.36
20101982	P3/O	Parklands Northwest P3	6.05	2.56	8.05	0.32	0.06	2.06	2.06	0.60	7.90	9.20
20101983	P3/A	Parklands Northwest P3	4.66	0.64	16.28	0.17	0.05	0.50	0.56	0.58	6.88	5.26
20101984	WH1/O	Whispering Hope northwest WH1	5.13	3.12	15.75	0.17	0.05	2.59	1.27	0.63	9.18	16.44
20101985	WH1/A	Whispering Hope northwest WH1	5.04	0.96	6.41	0.11	0.04	0.47	0.25	0.54	4.60	6.92
20101986	WH2/O	Whispering Hope northeast WH2	4.86	1.28	7.07	0.17	0.06	0.78	0.69	0.65	18.12	10.74
20101987	WH2/A	Whispering Hope northeast WH2	4.06	0.64	12.43	0.11	0.05	0.45	0.53	0.75	4.78	4.66
20101988	WH3/O	Whispering Hope south WH3	4.90	0.72	10.36	0.19	0.03	1.19	0.98	0.67	9.88	4.88
20101989	WH3/A	Whispering Hope south WH3	4.01	0.40	4.20	0.17	0.05	0.43	1.11	0.67	1.46	1.44
Averages			4.66	1.20	11.76	0.16	0.05	1.00	0.78	0.63	12.44	8.19

Lab	Sample	Sample	Zn	S	В	CEC	NO ₃ -N	Sand	Clay	Silt	Texture
no.	Id	Id	mg/kg	mg/kg	mg/kg	cmol/kg	mg/kg	%	%	%	Class
20101978	P1/A	Parklands Northeast P1	0.42	25.17	0.59	6.00	210.00	62.80	22.00	15.20	Sandy clay
20101979	P1/O	Parklands Northeast P1	0.29	29.67	0.04	6.00	126.00	72.80	8.00	19.20	Sandy loam
20101980	P2/O	Parklands dambo P2	0.29	13.67	0.63	3.33	205.33	84.80	8.00	7.20	Loamy sand
20101981	P2/A	Parklands dambo P2	0.20	7.67	0.03	4.00	140.47	48.80	40.00	11.20	Sandy clay
20101982	P3/O	Parklands Northwest P3	0.86	24.33	0.05	6.67	172.67	78.80	8.00	13.20	Loamy sand
20101983	P3/A	Parklands Northwest P3	0.20	15.33	0.08	4.67	121.33	76.80	10.00	13.20	Sandy loam
20101984	WH1/O	Whispering Hope	0.76	4.33	0.21	7.33	88.67	84.80	10.00	5.20	Loamy sand
20101985	WH1/A	Whispering Hope	0.12	26.50	0.40	4.00	93.33	80.80	10.00	9.20	Loamy sand
20101986	WH2/O	Whispering Hope	0.50	46.83	0.61	4.00	126.00	76.80	12.00	11.20	Sandy loam
20101987	WH2/A	Whispering Hope	0.15	< 0.17	0.31	5.33	140.00	66.80	20.00	13.20	Sandy loam
20101988	WH3/O	Whispering Hope south	0.40	56.00	1.28	6.00	70.00	72.80	16.00	11.20	Sandy loam
20101989	WH3/A	Whispering Hope south	0.16	2.50	< 0.01	7.33	65.33	52.80	40.00	7.20	Sandy clay
Averages			0.36	21.00	0.35	5.39	129.93	71.63	17.00	11.37	

Annex 5.3 Water Quality Test Results (Analysed by the University of Zambia Environmental Engineering Laboratory

]	Parklands and Whispering Hope Farms Pesticide Analyses								
Parameter	Results P1 Parklands dam raw water	Results P3 Parklands borehole	Results W1 Wheatlands dam raw water	Results W2 Whispering Hope borehole 1	Results W3 Whispering Hope borehole 2	Results W4 Whispering Hope well source	WHO maximum permissible value for drinking water		
рН	7.41	8.01	7.90	7.79	7.19	7.80	6.5-8.5		
Turbidity (NTU)	28.2	5.12	5.95	0.64	0.17	39.40	5		
Conductivity (mMhos/cm)	64	78	58	107	350	48	1500		
Total Dissolved Solids (mg/l)	42	51	26	72	228	32	1000		
Total Hardness (as CaCO ₃ mg/l)	46	52	38	66	318	34	500		
Ammonia (as NH ₄ -N mg/l)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1.5		
Sulphates	4.95	18.50	1.8	< 0.01	< 0.02	11.90	250		
Sulphides	< 0.02	< 0.2	< 0.02	< 0.02	< 0.01	< 0.02	-		
Nitrites (as NO ₂ -N mg/l)	0.001	0.003	0.007	0.006	0.003	0.008	0.100		
Nitrates (as NO ₃ -N mg/l)	0.15	< 0.01	0.29	0.59	0.34	0.11	10		
Total Phosporous	0.92	0.35	0.52	0.37	0.07	1.15	5		
Dissolved Oxygen (as O ₂ mg/l)	4.3	3.7	5.1	4.8	4.2	5.2	-		
Chemical Oxygen Demand (as O ₂ mg/l)	28	26	18	21	16	30	-		
Biological Oxygen Demand (as O ₂ mg/l)	0.28	0.02	0.33	0.20	0.22	0.20	-		
Nitrogen	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.2		
Aluminium			•						
Cadmium	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.01		

Arsenic	0.014	0.01	0.01	< 0.01	< 0.01	< 0.01	3
Zinc	3.16	0.48	0.55	0.14	0.13	2.62	0.3
Iron	2.16	2.11	1.06	2.02	4.86	1.98	-
Potassium	19.63	17.08	10.66	9.16	31.38	17.1	200
Sodium	10.4	17.6	6.4	25	91.2	9.6	200
Calcium	4.8	1.92	2.4	0.48	21.6	2.4	-
Magnesium	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.05
Manganese	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	1.5
Mercury	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.02
Nickel	10	20	12	-	10	15	-
Bacteriological Results							
Total Coliforms (No./100ml)	128	0	88	88	94	96	0
Faecal Coliforms (no./100ml)	100	0	35	35	75	85	0

Annex 5.4 Pesticide Test Results (Analysed by the Zambia Bureau of Standards Testing Laboratory)

Parklands and Whispering Hope Farms Pesticide Analyses

Parameter	Units	Method	Results	Results	
			WL4 Dam Water	P3A2 Soil	Banned Chemicals
Aldrin	ppb	BS EN 12393	0	5.2	X
Dieldrin	ppb	BS EN 12393	0.01	4.6	X
DDE	ppb	BS EN 12393	0	0	X
DDD	ppb	BS EN 12393	0	0	X
DDT	ppb	BS EN 12393	0	0	X
Endosulphan	ppb	BS EN 12393	0	0	
Heptachlor	ppb	BS EN 12393	0.04	15	X
Heptachlor epoxide	ppb	BS EN 12393	0	4.5	X
Lindane (alpha BHC)	ppb	BS EN 12393	0	5.4	NR
Methoxychlor	ppb	BS EN 12393	0	0	X
Endrin	ppb	BS EN 12393	0	0	NR

X	Banned	NR	Not recommended

Annex 6 Plant Species List From Parklands and Whispering Hope Farms

MKUSHI FARM BIODIVERSITY SURVEY

Farm No. 3283 Parklands and Farm No. 2380 Whispering Hope (formerly Beckett Farm)

Bemba/Lala names given by Charles Tembo

WOODLAND

Canopy trees

Acacia goetzei mutandacuwa Brachystegia longifolia musamba Brachystegia spiciformis muputu Burkea africana mukosho Julbernardia globiflora munye Julbernardia paniculata mutondo Parinari curatellifolia mupundu Pericopsis angolensis mubanga Pterocarpus angolensis mulombe Pterocarpus rotundifolius mulombe

Smaller trees & shrubs

Acacia gerrardii mungalushi

Allophylus africanus Bridelia cathartica Combretum adenogonium Combetum molle -

Crotalaria natalitia lundawaciti
Dalbergiella nyasae kafundansofu
Dichrostachys cinerea katenge
Diospyros kirkii mucenja
Diplorhynchus condylocarpon mwenge
Dombeya rotundifolia mukole
Erythrina abyssinica -

Faurea rochetiana mushokoto Ficus burkei mutaba

Flacourtia indica mukulumbisha Flueggea virosa kasansubwanga Gymnosporia buxifolia musekankwali Lannea discolor nakaumbu Maprounea africana kafulameme Monotes glaber cimpampa Monotes sp. cimpampa Multidentia crassa mupapala mabelemabele Ozoroa sp. Pappea capensis mubangaculu

Pavetta schumanniana Protea angolensis Pseudolachnostylis maprouneifolia musolo
Psorospermum febrifuga kafifi
Psychotria kirkii -

Senna singueana musambamfwa Steganotaenia araliacea kapolopolo Strychnos innocua busuku lutamwa

Strychnos sp. sansa
Swartzia madagascariensis ndale
Syzygium guineense macrocarpum musafwa
Terminalia stenostachya kalunguti
Turraea nilotica lunda
Uapaca kirkiana musuku

Uapaca nitida Uapaca sansibarica Vernonia myriantha Vitex madiensis -

Subshrubs (annual stems) & herbs (Dicot)

Acalypha allenii -

Acalypha villicaulis lwabya
Adenodolichos punctatus lufuba
Annonia stenophylla nana -

Aspilia pluriseta kantemwa

Clematopsis villosa -

Cryptolepis sp. lundawapanshi Cryptosepalum maraviense mpandala Cussonia corbusieri mutaba Cyphostemma junceum -

Cyphostemma sp. (5-fol.)

Diospyros virgata mumpobobo

Diplolophium zambesianum -

Dolichos gululu kalukumo
Dolichos kilimandscharicus cibombolwe
Dorstenia benguelensis mutandangoma
Droogmansia pteropus mulendeni
Eriosema affine kapulabalala
Euphorbia sp. (linear leaves) kantemya
Fadogia cienkowskii ibushi
Fadogia triphylla -

Gardenia subacaulus manceba Geophila obvalata manceba

Gnidia sp. 1 (tufted) Indigofera antunesiana lunda
Indigofera setiflora Indigofera sutherlandioides Indigofera sp., small, prostrate -

Lannea edulis kambolya

Launea sp. Ochna leptoclada iconi
Ochna richardsiae oconi
Ocimum sp. kafupa
Protea baumii mushokoto
Pseudarthria hookeri kalambatila

Rhus longipes -

Rourea orientalis nacisungu

Spermacoce dibrachiata (? Immature) Syzygium guineense huillense Thesium sp. Thunbergia kirkiana -

Shrubs & herbs (Monocots)

Commelina benghalensis Cyanotis longifolia Eulophia euantha Eulophia sp. (small) Gloriosa superb Nervilia ballii -

Siphonochilus sp. (narrow lvs.) mutungulu Tacca leontopetaloides kalukumo

Scandents, climbers, creepers

Cucumis hirsutus Dioscorea quartiniana Mucuna (?) sp. -

?Neonotonia wightii (immature) kabisha akululu

Rhus magalismontana trifoliolata - Rhynchosia hirta -

Grasses

Brachiaria ?nigropedata - Eragrostis racemosa -

Sedges

Bulbostylis macra Cyperus angolensis Cyperus esculentus Cyperus margaritaceus Lipocarpha chinenensis Scleria bulbifera -

TERMITE MOUNDS

Larger trees

Acacia sieberiana mungalunshi

Bridelia macrantha -

Combretum molle mulama
Diospyros mespiliformis mucenja
Ficus sycomorus mukuyu
Ziziphus mucronata ngwelulu

Smaller trees & shrubs

Allophylus africanus Diospyros lycioides Diospyros zombensis -

Dombeya rotundifolia mukole

Euclea racemosa Feretia aeruginescens Flemingia grahamiana Hibiscus sp. Mystroxylon aethiopicum -

Oncoba spinosa nsense Strychnos potatorum musangwa

Woody scandents & climbers

Capparis tomentosa - Combretum mossambicense -

Desmodium uncinatum ('Silverleaf')

Carissa edulis mukomfwa
Grewia flavescens mutende
Phyllanthus muellerianus muyema

Soft woody climbers

Adenia gummifera kaminda, ng'ombeyanina

Ampelocissus africanus - Rhoicissus trifoliata -

Thunbergia crispa musangwa

Herbaceous dicots

Plumbago amplexicaulis -Pouzolzia parasitica -

Tragia okanyua mbabango

Herbaceous monocots

Commelina benghalensis Scadoxus multiflorus -

DAMBO

Trees

Bridelia micrantha

Syzygium guineense subsp. guineense mufinsa Vitex doniana mucinka

Shrubs

Aeschynomene sp. mupetwalupe Dissotis princeps munsonga Ficus verruculosa mutombolyo

Herbs

Cucurbit, unid. Eulophia angolensis Eulophia sp. Haplocarpha scaposa Kniphofia sp. Melanthera sp. Pandiaka carsonii Persicaria decipiens -

Grasses

Hyparrhenia diplandra -Phragmites mauritianus (reed) -

Sedges

Ascolepis protea Cyperus sp. Fimbristylis sp. -

OTHER GROUPS

Fungus

Coprinus sp. (on dung) -

Lactarius sp. (pale brown) mukwesonge

Annex 7 Bird Species List From Quarter Degree Square E28° 00", S13° 30"(Covering Parklands and Whispering Hope Farms)

Podicepedidae

1. Little Grebe

Phalacrocoracidae

2. Reed Cormorant

Anhingidae

3. Darter

Pelicanidae

4. Pink-backed Pelican

Ardeidae

- 5. Little Bittern
- 6. Common Squacco Heron

Rufour-bellied Heron

- 7. Cattle Egret
- 8. Green-backed Heron
- 9. Black Egret
- 10. Yellow-billed Egret
- 11. Great White Egret
- 12. Purple Heron
- 13. Grey Heron
- 14. Goliath Heron

Scopidae

15. Hamerkop

Ciconidae

- 16. Openbill Stork
- 17. Abdim's Stork
- 18. Woolly-necked Stork
- 19. White Stork
- 20. Maribou Stork

Balaenicipitidae

-

Threskiornithidae

- 21. Sacred Ibis
- 22. Hadeda Ibis
- 23. Glossy Ibis

Phoenicopteridae

-

Anatidae

- 24. Fulvous Whistling Duck
- 25. White-faced Whistling Duck
- 26. Spur-winged Goose
- 27. Knob-billed Duck
- 28. African Pygmy Goose
- 29. African Black Duck
- 30. Yellow-billed Duck
- 31. Red-billed Teal
- 32. Hottentot Teal
- 33. Southern Pochard

- 34. White-backed Duck
- Accipiteridae
- 35. Black-shouldered Kite
- 36. Black/Yellow-billed Kite
- 37. Hooded Vulture
- 38. White-backed Vulture
- 39. White-headed Vulture
- 40. Back-breasted Snake Eagle
- 41. Brown Snake Eagle
- 42. Western Banded Snake Eagle
- 43. Bateleur Eagle
- 44. Gymnogene
- 45. African Marsh Harrier
- 46. Dark Chanting Goshawk
- 47. Black Goshawk
- 48. Gabar Goshawk
- 49. Ovambo Sparrowhawk
- 50. Little Sparrowhawk
- 51. African Goshawk
- 52. Shikra/Little Banded Goshawk
- 53. Lizard Buzzard
- 54. Common Buzzard
- 55. Augur Buzzard
- 56. Wahlberg's Eagle
- 57. Tawny Eagle
- 58. African Hawk Eagle
- 59. Ayer's Hawk Eagle
- 60. Long-crested Eagle
- 61. Crowned Eagle
- 62. Osprev

Sagittaridae

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Falconidae

- 63. Lesser Kestrel
- 64. Dickinson's Kestrel
- 65. Amur/Eastern Red-footed Falcon
- 66. European Hobby Falcon
- 67. African Hobby Falcon
- 68. Peregrine Falcon

Phasianidae

- 69. Coqui Francolin
- 70. Shelley's Francolin
- 71. Red-necked Francolin
- 72. Harlequin Quail
- 73. Blue Quail

Numididae

74. Helmeted Guineafowl

Turnicidae

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75. Kurrichane Buttonquail
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Rallidae

76. African Water Rail

77. Black Crake

78. Red-chested Flufftail

79. Striped Crake

80. Purple Gallinule

81. Lesser Gallinule

82. Common Moorhen

83. Lesser Moorhen

84. Red-knobbed Coot

Gruidae

-

Heliornithidae

-

Otididae

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Iacanidae

85. African Jacana

86. Lesser Jacana

Rostratulidae

87. Painted Snipe

Recurvirosteridae

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Burhinidae

88. Spotted Dikkop

Glareolidae

89. Temminck's Courser

90. Common/Red-winged Pratincole

Charadriidae

91. Three-banded Plover

92. Blacksmith Plover

93. Crowned Plover

Scolopacidae

94. Great Snipe

95. Greenshank

96. Green Sandpiper

97. Wood Sandpiper

98. Common Sandpiper

99. Little Stint

100. Curlew Sandpiper

Laridae

101. Grey-headed Gull

Sternidae

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Rynchopidae

-

Pteroclididae

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Columbidae

- 102. Laughing Dove
- 103. Cape Turtle Dove
- 104. Red-eyed Dove
- 105. Emerald-spotted Wood Dove
- 106. Blue-spotted Wood Dove
- 107. Namaqua Dove
- 108. Green Pigeon

Psittacidae

109. Meyer's Parrot

Musophagidae

- 110. Scalow's Turaco
- 111. Lady Ross's Turaco

Cuculidae

- 112. Red-chested Cuckoo
- 113. Black Cuckoo
- 114. European grey Cuckoo
- 115. African Grey Cuckoo
- 116. Striped Crested Cuckoo
- 117. Klaas's Cuckoo
- 118. Didric Cuckoo
- 119. African black Coucal
- 120. Coppery-tailed Coucal
- 121. Senegal Coucal
- 122. Burchell's Cuckoo

Tytonidae

123. Barn Owl

Strigidae

- 124. Spotted Eagle Owl
- 125. Pearl-spotted Owlet
- 126. Barred Owlet
- 127. Wood Owl

Caprimulidae

- 128. Fiery-necked Nightjar
- 129. Freckled Rock Nightjar
- 130. Gaboon Nightjar
- 131. Pennant-winged Nightjar

Apodidae

- 132. Bat-like Spinetail
- 133. African Palm Swift
- 134. European Swift
- 135. Little Swift

Coliidae

136. Speckled Nightjar

Trogonidae

137. Narina Trogon

Alcedinidae

- 138. Half-collared Kingfisher
- 139. Malachite Kingfisher
- 140. Pygmy Kingfisher
- 141. Brown-headed Kingfisher
- 142. Chestnut-bellied Kingfisher
- 143. Senegal/Woodland Kingfisher
- 144. Striped Kingfisher
- 145. Giant Kingfisher
- 146. Pied Kingfisher

Meropidae

- 147. Little Bee-eater
- 148. White-cheeked Bee-eater
- 149. Swallow-tailed Bee-eater
- 150. Blue-cheeked Bee-eater
- 151. European Bee-eater
- 152. Southern Carmine Bee-eater

Coraciidae

- 153. European Roller
- 154. Lilac-breasted Roller
- 155. Racket-tailed Roller
- 156. Purple Roller
- 157. Broad-billed Roller

Phoeniculidae

- 158. Red-billed Wood Hoopoe
- 159. Scimitarbill

Upupidae

160. Hoopoe

Bucerotidae

- 161. Crowned Hornbill
- 162. Pale-billed Hornbill
- 163. Trumpeter Hornbill

Bucorvidae

164. Southern Ground Hornbill

Lybiidae

- 165. Anchieta's Barbet
- 166. Yellow-fronted Tinkerbird
- 167. Golden-rumped Tinkerbird
- 168. Miombo Pied Barbet
- 169. Black-collared Barbet
- 170. Black-backed Barbet
- 171. Crested Barbet

Indicatoridae

- 172. Sharp-billed Honeyguide
- 173. Brown-backed Honeyguide
- 174. Scaly-throated Honeyguide
- 175. Greater Honeyguide
- 176. Lesser Honeyguide
- 177. Eastern Least Honeyguide

Picidae

- 178. Bennett's Woodpecker
- 179. Golden-tailed Woodpecker
- 180. Lesser-spotted Woodpecker
- 181. Cardinal Woodpecker
- 182. Bearded Woodpecker
- 183. Olive Woodpecker

Eurylaimidae

184. African Broadbill

Pittidae.

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Alaudidae

- 185. Flappet Lark
- 186. Dusky Lark
- 187. Red-capped Lark

Hirundinidae

- 188. Banded Martin
- 189. European Sand Martin
- 190. European Swallow
- 191. White-throated Swallow
- 192. Grey-rumped Swallow
- 193. Red-breasted Swallow
- 194. Mosque Swallow
- 195. Lesser-striped Swallow
- 196. House Martin
- 197. Black Saw-wing

Motacillidae

- 198. Yellow Wagtail
- 199. African Pied Wagtail
- 200. Richard's Pipit
- 201. Buffy Pipit
- 202. Long-billed Pipit
- 203. Tree Pipit
- 204. Fullerborn's Longclaw

Campephagidae

- 205. White-breasted Cuckoo-shrike
- 206. Purple-throated Cuckoo-shrike
- 207. Black Cuckoo-shrike

Pycnonotidae

- 208. Little Greenbul
- 209. Yellow-bellied Greenbull
- 210. Terrestrial Bulbul
- 211. Grey-olive Bulbul
- 212. Common/Black-eyed Bulbul

Turdidae

- 213. Miombo Rock Thrush
- 214. West African Thrush
- 215. Kurrichane Thrush
- 216. Groundscraper Thrush

- 217. Bocage's Robin
- 218. Heuglin's Robin
- 219. Central Bearded Scrub Robin
- 220. White-browed Scrub Robin
- 221. Stonechat
- 222. Whinchat
- 223. Capped Wheatear
- 224. Familiar Chat
- 225. Arnot's Chat
- Sylviidae
- 226. Broad-tailed Warbler
- 227. Little Rush Warbler
- 228. Evergreen Forest Warbler
- 229. African Moustached Warbler
- 230. Sedge Warbler
- 231. Great Reed Warbler
- 232. Lesser Swamp Warbler
- 233. African Yellow Warbler
- 234. Green-capped Eremomela
- 235. Black-collared Eremomela
- 236. Yellow-bellied Eremomela
- 237. Red-capped Crombec
- 238. Long-billed Crombec
- 239. Willow Warbler
- 240. Laura's Warbler
- 241. Yellow-bellied Hyliota
- 242. Southern Hyliota
- 243. Garden Warbler
- 244. Common Whitethroat
- 245. Fan-tailed Cisticola
- 246. Croaking Cisticola
- 247. Rattling Cisticola
- 248. Short-winged Cisticola
- 249. Neddicky
- 250. Trilling Cisticola
- 251. Red-faced Cisticola
- 252. Chirping Cisticola
- 253. Tawny-flanked Prinia
- 254. Yellow-breasted Apalis
- 255. Grey Apalis
- 256. Bleating Bush Warbler
- 257. Miombo Barred Warbler
- Muscicapidae
- 258. Pallid Flycatcher
- 259. Southern Black Flycatcher
- 260. Collared Flycatcher
- 261. Spotted Flycatcher
- 262. Dusky Flycatcher
- 263. Ashy Flycatcher

264. Bohm's Flycatcher

265. Lead-coloured Flycatcher

Platysteiridae

266. Chinspot Batis

267. Black-throated Wattle-eye

Monarchidae

268. White-tailed Blue Flycatcher

269. Blue-mantled Fycatcher

270. Paradise Flycatcher

Timaliidae.

271. Arrow-marked Babbler

Paridae

272. Miombo Grey Tit

273. White-winged Black Tit

274. Rufous-bellied Tit

Remizidae

275. Grey Penduline Tit

Certhiidae

276. Spotted Creeper

Nectariniidae

277. Violet-backed Sunbird

278. Collared Sunbird

279. Olive Sunbird

280. White-bellied Sunbird

281. Miombo Double-collared Sunbird

282. Shelley's Sunbird

283. Purple-banded Sunbird

284. Coppery Sunbird

Zosteropidae

285. Yellow White-eye

Oriolidae

286. European Golden Oriole

287. African Golden Oriole

288. Eastern Black-headed Oriole

Laniidae

289. Sousa's Shrike

290. Red-backed Shrike

291. Fiscal Shrike

Malaconotidae

292. Brubru

293. Southern Puffback

294. Marsh Tchagra

295. Brown-headed Tchagra

296. Black-crowned Tchagra

297. Tropical Boubou

298. Orange-breasted Bush Shrike

299. Grey-headed Bush Shrike

Prionopidae

300. White Helmet Shrike

301. Retz's Red-billed Helmet Shrike

Dicruridae

302. Square-tailed Drongo

303. Fork-tailed Drongo

Corvidae

304. Pied Crow

305. White-necked Raven

Sternidae

306. Violet-backed Starling

307. Wattled Starling

Buphagidae

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Passeridae

308. House Sparrow

309. Yellow-throated Petronia

Ploceidae

310. Chestnut-mantled Sparrow-weaver

311. Spectacled Weaver

312. Large Golden Weaver

313. Village Weaver

314. Dark-backed Weaver

315. Red-headed Weaver

316. Red-billed Quelea

317. Black-winged Red Bishop

318. Yellow Bishop

319. Red-shouldered Whydah

320. White-winged Whydah

321. Red-collared Whydah

322. March Whydah

332. Parasitic Weaver

Estraldidae

333. Melba Finch

334. Orange-winged Pytilia

335. Red-throated Twinspot

336. Brown Firefinch

337. Blue-billed Firefinch

338. Black-tailed Grev Waxbill

339. Fawn-breasted Waxbill

340. Common Waxbill

341. Blue Waxbill

342. Bronze Mannikin

343. Red-backed Mannikin

344. Magpie Mannikin

Viduidae

345. Variable Indigobird

346. Pin-tailed Widow

347. Long-tailed Paradise Widow

348. Broad-tailed Paradise Widow

Fringillidae

- 349. Black-faced Canary
- 350. Yellow-fronted Canary
- 351. Bully Canary
- 352. Black-eared Seedeater
- 353. Stripe-breasted Seedeater

Emberizidae

Golden-breasted Bunting

354. Cabanis's Bunting

Annex 8 Minutes of Public Meeting Held at Ngambwa Railway Station on 3rd April 2011

Held between 10.30 - 12.00 hours on Sunday 3rd April

Introduction

The facilitators of the meeting, Adam Pope, Clare Barkworth and Nellie Mwale were introduced and the purpose of the meeting by Mr Felix Malama, the Station Master and his secretary, Mr Fleix Masanindo who acted as translator from ChiNyanja and English to ChiBemba. 60 people attended the meeting (40 men and 20 women) and several children from both the Chobe farms and local community. See attendance list. Nellie Mwale translated from English to ChiNyanja.

Presentation of Findings of the Environmental and Social Impact Assessment

The findings of the EIA study of the Whispering Hope and Parklands were presented and a discussion held around each finding. The mitigation measures that are planned by Chobe Agrivision were then presented. The presentation was facilitated using cards arranged in a logical framework (see photo Figure 2).



Figure 1Attendance of over 60 persons

TRANSPORT LAW TOWNERS OF THE PROPERTY OF THE P

Figure 2 Findings, Negative Impacts and Mitigating Measures presented in logical framework

SOCIAL AND ECONOMIC IMPACTS

Finding 1 High levels of casual migrant and transient labour

Negative Impacts

- Higher prevalence of HIV and AIDS:
- Poor temporary housing
- No job security

Mitigating Measures:

- HIV/AIDS work place programme to be established and run by a full time medical health worker already employed on the farm;
- Improve housing for permanent staff relocation of Beckett housing compound. Contractor already on site and house construction starts week of 11th April, 2011.
- Permanent contracts offered after assessment of staff to be put in place over next 6 months. Casual labour only employed for specific seasonal and developmental work.

Finding 2 Poor water and sanitation facilities

Negative Impact

Poor productivity as a result of high levels of sickness and diarrhoeal diseases

Mitigation measures

- Improve water and sanitation on farm;
- New boreholes will be drilled and installation of filters.

 Access to open water areas limited to designated areas for recreation such as fishing, and also for washing

Finding 3 No worker representation on farm

Negative Impact

• Poor productivity and staff morale, no means of discussing grievances.

Mitigation Measure

 Organised body to be established to allow Chobe management representation, worker representation and community representation.

Finding 4 Poor access and availability of health and education facilities

Negative Impact:

- Qualified staff retention poor as they seek better education and health facilities for their families;
- Poor productivity as they seek medical attention far from the work place.

Mitigation Measure

- Improved on-farm health facilities with a basic farm clinic;
- Weekly organized visits to Mkushi Hospital;
- Day care centre established to be run by midwives for pre school children:
- Discussions on-going to establish a community centre and possibility of establishing a primary school.

Finding 5 Poor Emergency preparedness and response strategy

Negative Impact

- Not able to deal with emergency situations;
- Possible high levels of casualties in the event of an emergency.

Mitigation Measure

 Emergency Preparedness strategy put in place which includes training of senior staff, evacuation plan and development of Material Safety data sheet.

ENVIRONMENTAL IMPACTS

Finding 6 Poor health and safety in the work place

Negative Impacts

• Work accidents and chronic ill health

Mitigation Measures:

- Formalize health and safety procedures.
- Provide protective gear;
- Train workers in use of equipment;
- Erect warning signs.

Finding 7 Poor storage, management and disposal of toxic chemical and waste.

Negative Impacts:

- Disrupts aquatic and soil biodiversity,
- Encourages the flow of persistent organic pesticides into surface and groundwater systems; and
- Poses health risks to the local population.

Mitigation Measures:

- Construction of secure well ventilated chemical stores;
- Train staff in management of toxic chemical and solid waste handling and management;
- Maintain a list of banned chemicals; and
- Establish incinerators for incinerating contaminated chemical containers.

Finding 8 Poor air quality and noise pollution

Negative Impact:

Poor health and reduced productivity of workers.

Mitigation Measures;

- Improved health and safety equipment;
- Use of filtered breathing and noise reduction equipment

Finding 9 Water and Soil pollution from Agricultural Chemicals

Negative Impact

- High costs of wasted chemicals;
- Poor environmental outcomes.

Mitigation Measures:

- Optimise the use of fertilisers
- Zero tillage and other more modern agricultural practices.
- Conservation Acton Plan.

Finding 10 other Environmental Impacts summarised as soil erosion, water quality and climate change.

Mitigation Measures

- Improved land use and farming practices,
- Soil erosion management
- Irrigation management.

Figure 3 High Level of Women's Participation



Attendance List

	Name	Address	Gender
1	Felix Malama (station master)	Ngambwa	Male
2	Maybin Sinkamba	Ngambwa	Male
3	Evareen Chisenga	Ngambwa	Female
4	Doria Mwaba	Ngambwa	Female
5	Rabecar Chinama	Ngambwa	Female
6	Florence Mhlama	Ngambwa	Female
7	Selita Musonda	Ngambwa	Female
8	Justina Kasonka	Chobe	Female
9	Mary Bulabishi	Ngambwa	Female
10	Eunice Phiri	Ngambwa	Female
11	Chali Majori	Ngambwa	Female
12	Briget Chinyinji	Ngambwa	Female
13	Lilien Mwaba	Ngambwa	Female
14	Madeson Kunda	Ngambwa	Female
15	Mary Malama	Ngambwa	Female
16	Precious Malama	Ngambwa	Female
17	Samson Chilime	Chobe	Male
18	Lenady Mukosha	Chobe	Male
19	John Chilopa	Chobe	Male
20	John Mubangan	Chobe	Male
21	Webster Chisenga	Chobe	Male
22	Sefania Chisenga	Ngambwa	Male
23	Joseph Kaseya	Chobe	Male
24	David Chonyinji	Ngambwa	Male
25	C.L Banda	Chobe	Male
26	Fellow Hamatowe	Ngambwa	Male
27	Wiliam Mwanza	Chobe	Male
28	John Sinkala	Ngambwa	Male
29	Amon Lubilo	Ngambwa	Male
30	James Soko	Chobe	Male
31	Green Mumba	Ngambwa	Male
32	Peter Malasha	Ngambwa	Male
33	Chinama Longa	Ngambwa	Male
34	Welingtone Kalusha	Ngambwa	Male
35	Noman Chund	Ngambwa	Male
36	Veriat Phiri	Ngambwa	Male
37	Laban Kabamba	Chobe	Male
38	Maverus Mwelwa	Ngambwa	Male
39	Blenda Chisenga	Ngambwa	Female
40	Luny Kalulisha	Ngambwa	Female
41	Clara Mwelwa	Ngambwa	Female
42	Memory Malama	Ngambwa	Female
43	Welingtone Kalusha	Ngambwa	Male
44	Clever Chalwe	Ngambwa	Male
45	Lastone Kunda	Ngambwa	Male
46	Felix Mwango	Ngambwa	Male

47	Kelys Lubilo	Ngambwa	Male
48	Blety Mwila	Chobe	Male
49	Davis Sikaonga	Ngambwa	Male
50	Reyarb Mwewa	Chobe	Male
51	Charles Chisenga	Chobe	Male
52	Gilbert Kunda	Ngambwa	Male
53	Evaristo Mwaba	Ngambwa	Male
54	Wilan Kabamba	Ngambwa	Male
55	Elvis Musonda	Ngambwa	Male
56	Mwaka Nandiya	Ngambwa	Female
57	Elmedar	Ngambwa	Female
58	Masanindo Malama	Ngambwa	Male
59	Kennedy Mulenda	Ngambwa	Male
60	Darius Shitambuli	Ngambwa	Male