

Assessment Report
Industrial Forest Plantation
High Conservation Value
Public Summary

PT. Acacia Andalan Utama

39.620 Ha

No.87/Menhut-II/2007 dated 22 March 2007

**Kutai Kartanegara Regency, East Kalimantan
Province**

July 2013

*This Public Summary is prepared within the framework of APP's Forest Conservation Policy
and the information contained is the result of a full HCV assessment*

Prepared by : *Tri Setyadi (Lead Assessor)*



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1 INTRODUCTION

1.1 Time frame of HCV Assessment

The assessment was conducted on July 2013

1.2 Reference

No	Reference
1	National HCV Toolkit
2	<i>The High Conservation Value Forest Toolkit, Edition 1, December 2003</i>

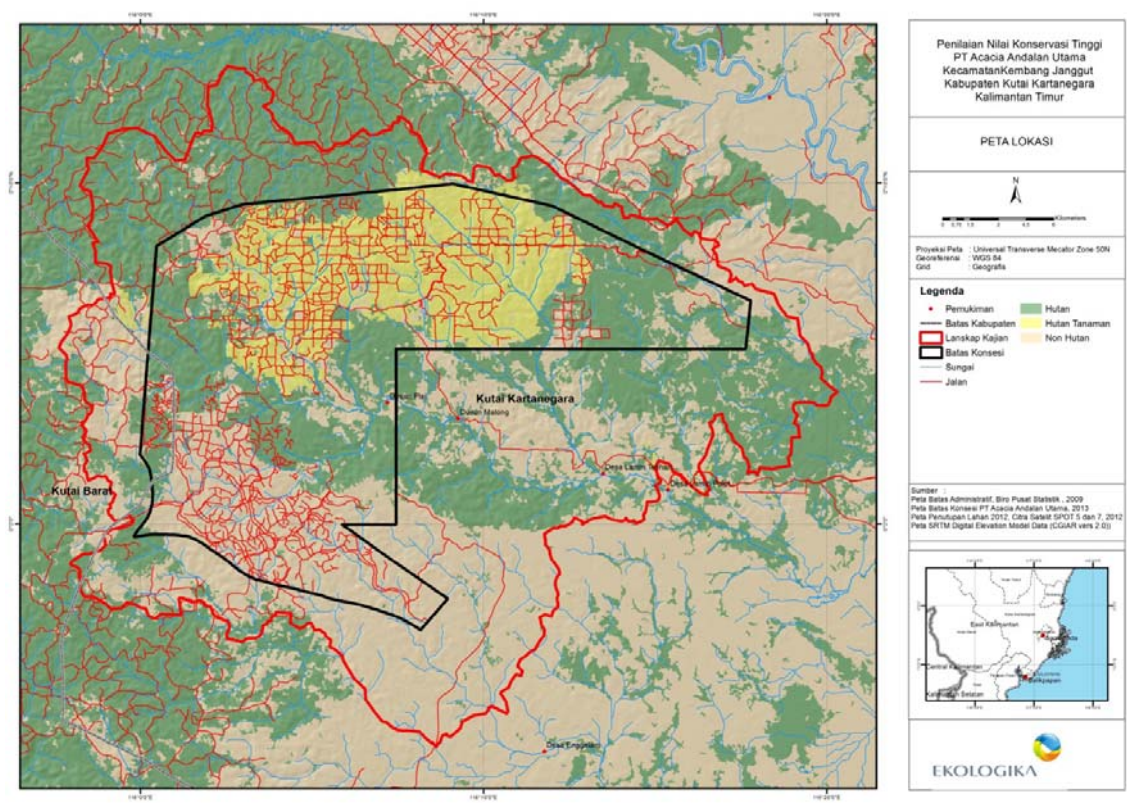
1.3 Project Development Status

PT. Acacia Andalan Utama is one of APP supplier which has been operating since 2007, according to the FCP there will be no natural forest and clearance by PT. Acacia Andalan Utama after January 31, 2013

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1.4 Area Description

PT. Acacia Andalan Utama or PT. AAU is a national private company headquartered in Jakarta, with forestry sectors business, which would run a forest plantation in East Kalimantan. Based on the auction result written in the Minister of Forestry Decree, IUPHHK-HT No.82/Menhut-IV/2006 dated 4 April 2006, PT. AAU is licensed with ± 37.349 Ha of group of forest of upstream area of Berambai – Belayan river Kutai Kartanegara regency, East Kalimantan Province. Based on Commercial Timber Forest Products Utilization Permits in Industrial Forest Plantation (IUPHHK-HTI) No.87/Menhut-II/2007 dated 22 March 2007, PT. AAU is licensed with concession area 39.620 ha for the period of a hundred years.



Map of HCV assessment location of PT. AAU

2 METHODS

2.1 Primary Data Collection

Primary data collected through the survey:

- The vegetation within the concession of PT. AAU, East Kalimantan
- Mammals within the concession of PT. AAU, East Kalimantan
- Birds within the concession of PT. AAU, East Kalimantan
- Reptiles and Amphibians within the concession of PT. AAU, East Kalimantan
- Socio-economic and cultural condition within and around the concession of PT. AAU, East Kalimantan

Vegetation Survey. The method of this survey employs line transect along 1 Km in each area that represents the type of ecosystems. Rapid inventory recorded the types of plants on each location representing the ecosystem; with the observed variable is the type of dominant plants. The identification of plant species is held in the field and if there is a plants that has not been successfully identified, the specimen vouchers (herbarium example) will be identified further based on existing herbarium specimens or based on existing Flora book appropriate for Kalimantan, such as *Pohon-pohon Hutan Kalimantan Timur Pedoman mengenal 280 jenis pohon pilihan di daerah Balikpapan – Samarinda* (Kessler dan Sidiyasa 1999), *Illustrated Plant List of Pusrehtu* (Takahata 1996), *Plants of Southeast Asia* (Slik 2009), *Jenis-jenis Gulma Pada Hutan Tanaman Dipterocarpa di Kalimantan Timur* (Ngatiman dan Budiono 2009), *Pengenalan Jenis Tumbuhan di Hutan Rawa Gambut* (Istomo 2002) dan *Nepenthes Kantong Semar yang Unik* (Mansur 2006). These identification is then used to identify the HCV 1.2 and 1.3.

Amphibians and Reptiles. Amphibian species is vulnerable towards forest degradation, thus providing clear information on proper forestry practices. Survey is fully conducted in the forest complemented by ad hoc survey along the way to the location. The survey employed VES (*visual encounter survey*) and sample marking for ones captured on the transect line. The observation and capture are carried out in the morning, afternoon and evening. The observation in the morning started at 7.00 to 11.00, and the observation in the evening was at 19.00 to 23.00. The transect line made in the area included several types of habitats: peat forest, Riverbank, open area riverbank, area converted into Acacia plantation monoculture forests, and around the camp.

Birds. Bird surveys conducted on (1) lowland dipterocarp forest, (2) Riparian / periodic swamp forests, (3) plantation forests, (4) Sundaland heath (*kerangas*) forests. Dipterocarp forest and the riverbanks of this area have high biodiversity level compared to the other ecosystems in this area. The survey is conducted when birds are active, between morning and evening. Morning observation is on 06.00 – 10.00 and evening observation is on 16.00 – 18.00. this is called as “Concentration Count” observation, where the observation is conducted when the birds are actively moving.

Mammals. This research applied line-transect and cruising technique. Mammals are observed by slowly cruising along 1 km of transect line in each forest types and recording all of the spotted mammals species with GPS: distance between wildlife and observer, angle of wildlife and transect line. Wildlife evidences other than direct encounter are feed remains,

footprints, smell, scratched trees, feces, and nest are also recorded. The observations were carried out in the morning (05:30 – 09:00), afternoon (15:00 – 18:00) and evening (19:00 – 22:00).

Habitat condition and possible threatening factors are also recorded (Each encountered mammals characteristics are noted down and photographed for supporting species identification). In this research, habitat information and forest condition are recorded as data support of biodiversity, ecology and distribution pattern. Semi structured interview with local community and guide to inquire more mammal species possibly encountered around the forest. This will enrich information on species existence and historical information of habitat change. Appendix 8 is detailing the results of the mammals' survey.

Social and cultural. The methods employed for identification and delineation of HCV 5 and 6, are:

- Focus group discussion in public consultation with local stakeholders of Siluq Ngurai sub-district, West Kutai Regency in East Kalimantan (public consultation is part of field assessment) where 30 customary figures and village/sub-district officials are actively participated.
- Focus group discussion with active participation of 10-15 community and community figures (usually attended by most of local community, where the population is about 80 – 120 households),
- Single and group unstructured interviews are carried out to key informants (village chiefs, village officials, custom chiefs) and random (encountered) community – especially female residents – in every *sampling* villages of socio-cultural study for HCV-5 and HCV-6.

Sampling is determined by :

- Villages located in the concession area.
- Villages located around the area very close by the concession area and potentially affected directly or indirectly from the company's operations.
- Villages located in the same watershed (DAS) with the concession area

2.2 Schedule

No	Activities	Date
1	Pre Assessment	11 - 20 April 2013
2	Reporting	May – June 2013
3	Stake Holder Consultation	8 July 2013
4	Assessment	July 2013
5	Reporting	November 2013 – January 2014
6	Public Consultation	13 – 14 February 2014
7	Peer Review	July 2014
8	Final Report	December 2014

3. ASSESSMENT TEAM

ADVISOR

Neville Kemp MSc (Technical Advisor of Ecology)

- Profession : Director of PT Ekologika Consultants, Natural Resource Management Consultant
- Expertise : Biodiversity survey, Community Development, Forest Ecology and Management. He is an ecologist, forestry expert and ornithologist
- Field Experience : Worked in conservation areas and community development at Indonesia and Vietnam for more than 17 years and known as an expert in the field of Biodiversity Survey, especially identifying avifauna species in Indonesia. Currently he is the Director of PT EKologika Consultants – a consulting company that provides Natural Resource Management Service and survey services in High Conservation Value assessment for companies in timber, palm oil plantation and Industrial Forest sector, including companies certified with FSC standard. He is also a member of High Conservation Value Network Indonesia.

Ninil Riyati Miftahul Jannah (Technical Advisor of Socio-economic and Cultural)

- Profession : Community Development Specialist
- Expertise : More than 10 years of working experience in various fields, including community development, conservation, environmental education and informal education for adults. Recently, her expertise is shifted to disaster risk reduction field and organizing communities to preparedness against disaster using participatory approach.
- Field Experience : Since earthquake disaster hit Yogya in May 27th 2006, Ninil had helped many communities to rebuild and strengthen their source of income through participatory approach. Founded “Perkumpulan Lingkar” in 2008 and continuously working with communities to implement programs related to natural resources and disaster risk reduction.

Tri Setyadi (Team Leader)

- Profession : Spatial Technical Lead PT Ekologika Consultants
- Expertise : Spatial analysis and Community Development. Working experience in Environmental NGO, for more than 10 years. Project Management proficiency in NGO Perkumpulan LINGKAR, especially for community development and agroforestry fields. Skilled in using devices when conducting participatory method such as PAR, PRA, and RRA.
- Field Experience : HCV assessment in several Forest management permit (HPH) in Papua, Kalimantan, and Maluku – especially on GIS-based mapping.

ECOLOGY TEAM

Edy Hendras Wahyono (Mammal Ecology)

- Profession : Consultant, expert in mammals especially primate, ecotourism and environmental education.
- Expertise : Mammals researcher, an expert in mammals field especially primate. Since 1996-2006 joined with Conservation International Indonesia Program. 2007-present, served as Executive Director of Yayasan Pendidikan Konservasi Alam (YAPEKA). Together with Jatna Supriatan wrote Buku Panduan Lapangan Primata (Field Guide for Primate), under Yayasan Obor publishing, 2000.
- Field Experience : Experienced in researching various type of primates, which had been done since college. Work with various conservation-related NGO since 1996.

Mohamad Syoim (Herpetofauna ecology)

- Profession : Lecturer at Faculty of Forestry, Mulawarman University. Recently finished his master degree in Herpetology.
- Expertise : Wildlife researcher, especially for herpetofauna taxa (Reptilian and Amphibian)
- Field Experience : Wildlife researcher with experience in various researches toward wide varieties of wildlife in East Kalimantan since 2002. Those activities were engaged with WWF, TNC, and several private companies, from mining and forest industry. Experienced HCV assessor for several oil palm plantation and industrial forest plantation in East Kalimantan.

Reski Udayanti (Bird Ecology)

- Profession : Forester, Wildlife researcher especially avifauna
- Expertise : Wildlife Researcher especially avifauna
- Field Experience : Post-graduate student in Faculty of Forestry, Mulawarman University. Experienced conducting biodiversity research in Kalimantan and Sumatera. Research experience started from under-graduate program in 2006. Field experience: training and management led to position of Chief of Borneo Bird Community in 2010-2011. HCV assessment for several palm oil plantation and industrial forest plantation.

Raharjo Ari Suwasono (Plant Ecology)

- Profession : Staff of Faculty of Forestry at Mulawarman University. Currently enrolled on postgraduate program in Faculty of Forestry in Mulawarman University
- Expertise : As plant researcher, experienced in researches on various types of flora in East Kalimantan since 2006.
- Field Experience : Various experience on researching vegetation and work together with several institutes such as HCVF Vegetation Assessment Team with Tropenbos

International Indonesia and PT. Jump Consulting on PT. IHM at 2013. Data Gatherer Team on medicinal plants and herbs research (RISTOJA); with Unmul Research Institute – Ministry of Health 2012. Vegetation Team on Kegiatan Kajian Ilmiah Rencana Sodedan Sungai Biu PT. Kideco Jaya Agung, Muara Samu district, Paser, East Kalimantan, 2012. Nurturing Assessment Team, Kutai National Park Reboitation, 2011. Vegetation HCV Assessment Team in Biodiversity Survey on Kayan Mentarang National Park – Betung Karihun National Park. Monitoring Vegetation on Reclamation Area ex-Mine PT. Trubaindo Coal Mining, PT. Kelian Equatorial Mining, PT. Kaltim Prima Coal and PT. Berau Coal until now.

SOCIAL TEAM

Adi Supriyadi (Social)

Profession : Forester, Social Researcher and Lecturer at Environmental Management Program Studies, State Polytechnic of Agriculture Samarinda.

Expertise : Social and Forestry Researcher

Field Experience : Experience on research and forestry with engaging communities in the process listed as follows:
Assessing National Current Initiative in Term of Action Research, Project Activity Publication and Other Activity in REDD+, GIZ Office Indonesia 2012. HCVF Assessment in PT. Mulia Agro Permai, PT. Menteng Jaya Sawit Perdana and PT. Karya Makmur Abadi, Central Kalimantan 2010. Designing Environmental Status for Nunukan District, 2009. *Baseline Assessment at PT. Sumalindo Forest Concession at Site Pesab in Kalimantan*, WWF Institute Indonesia, 2009, Partnership, Monitoring and Evaluation Staff. The Nature Conservancy. Berau, East Kalimantan. Social Economy and Stakeholder Analysis in Mahakam Delta East Kalimantan. PT. Wisesa Ide Nusantara, Total FinaELF Indonesia and Cirad Frane. 2002, Land Use Management in Local Community in Pampang and Lempake East Kalimantan. Yayasan Teladan and Lembaga Ilmu Pengetahuan Indonesia. 2002, Identification of Local Wisdom and Traditional Technology on Forest Fire Counter Measure in East Kalimantan. Yayasan Bioma, Faculty of Forestry, Mulawarman University and International Timber Trade Organization 2001.

Aspian Noor (Social)

Profession : Staff at Yayasan Bioma

Expertise : Facilitator for Community Assistance

Field Experience : Member of Yayasan Bioma since 1998, proficient in using approaching methods such as Participatory Rural Appraisal (PRA), Rapid Rural Appraisal, Participatory

Action Research (PAR). Also skilled in approaching participatory mapping approaching models. Research experiences in forestry and community in East Kalimantan forests.

Pajar Gumelar (Social)

Profession : Staff at Yayasan Bioma
Expertise : Facilitator for Community Assistance
Field Experience : Several activities such as Community Based Forest Management Development and Community Based Forest Fire Prevention and Control Program was Supported by Indonesian Biodiversity Foundation (KEHATI), World Wide Fund (WWF) Indonesia Sundaland Bioregion, Australian Agency for International Development (AusAID), International Timber Trade Organization (ITTO), CARE International Indonesia and Clinton Foundation. Experienced in conducting research on forestry and community in around forest in East Kalimantan. Several activities such as Community Based Forest Management Development and Community Based Forest Fire Prevention and Control Program was Supported by Indonesian Biodiversity Foundation (KEHATI), World Wide Fund (WWF) Indonesia Sundaland Bioregion, Australian Agency for International Development (AusAID), International Timber Trade Organization (ITTO), CARE International Indonesia and Clinton Foundation. Served as Social Consultant for: Center for International Forestry Research (CIFOR), Integrated Forest Fire Management (IFFM/Gtz) Sustainable Forest Management Project (SFMP/Gtz), Forestry Research Center (BPPK) Samarinda and the Tropenbos Indonesia in some activities for Sustainable Forest Management, Forest Land Fires and Community Development.

Okki Shabibusallam (Social)

Profession : Community Assistance Facilitator
Expertise : Community facilitator and Assistance
Field Experiences : Working in environmental sectors since 1995 with Klub Indonesia Hijau (KIH) Surabaya. Conducting economy – social – cultural surveys, able to use various participatory research tools. Birdwatching hobby has given him extraordinary experiences of forest and villages adventures and sharpen his skills in communicating and understanding community agenda. An active board members of Klub Indonesia Hijau Surabaya

4. RESULT

4.1. HCV Result

HCV	Definition	Present	Potential	Absent
1	Concentrations of biological diversity including endemic species, and rare, threatened or endangered species, that are significant at global, regional or national levels.	1.1, 1.2, 1.3,		1.4
2	Large landscape-level ecosystems and ecosystem mosaics that are significant at global, regional or national levels, and that contain viable populations of the great majority of the naturally occurring species in natural patterns of distribution and abundance.	2.3		2.1, 2.2
3	Rare, threatened, or endangered ecosystems, habitats or refugia.	3		
4	Basic ecosystem services in critical situations, including protection of water catchments and control of erosion of vulnerable soils and slopes.	4.1, 4.3		4.2
5	Sites and resources fundamental for satisfying the basic necessities of local communities or indigenous peoples (for livelihoods, health, nutrition, water, etc.), identified through engagement with these communities or indigenous peoples.	5		
6	Sites, resources, habitats and landscapes of global or national cultural, archaeological or historical significance, and/or of critical cultural, ecological, economic or religious/sacred importance for the traditional cultures of local communities or indigenous peoples, identified through engagement with these local communities or indigenous peoples.	6		

HCV	Sub-Item	Definition	Present
1.	1.1	Areas/sites that have or give Biodiversity Supporting Function for Protected and/or Conservation Areas.	Riverbank and UMH Conservation Areas
	1.2	Endangered species.	Vegetation types: <i>Dipterocarpus fusiformis</i> <i>Dipterocarpus lowii</i> <i>Dipterocarpus tempehes</i> <i>Hopea mengerawan</i> <i>Shorea balangeran</i> <i>Shorea johorensis</i> <i>Shorea smithiana</i>
	1.3	Areas which are habitat to Endangered Species Population or Protected which able to survive (viable population).	Vegetation of 60 species, 15 mammals species, 13 avian species
	1.4	Habitat of temporary use by species or congregation of species	None

2	2.1	Large natural landscapes with capacity to maintain natural ecological processes and dynamics	No natural forest with >20.000 ha core area and buffer zone 3km
	2.2	Areas that contains two or more contiguous Ecosystems	No ecotone existed which are 2 adjacent ecosystem of peat swamp ecosystem and freshwater swamp ecosystem
	2.3	Areas that contain representative populations of most naturally occurring species	Animal diversity, especially mammals found in every peat forest, lowland forest, and groves with several groups of primate species, felidae and accipiter
3		Rare or endangered ecosystems	<ul style="list-style-type: none"> • Forest on ultrabasic rock • Heath forest • Mixed dipterocarp forest on alluvium • Mixed or hill dipterocarp forest on sedimentary rock
4	4.1	Areas or ecosystem important for provision of water and prevention of floods for downstream communities	Riverbank and dipterocarp forest
	4.3	Areas that function as natural barriers to prevent forest or field fire.	100m forest buffer
5		Areas with Important Functions to fulfill Local community's basic needs.	<ol style="list-style-type: none"> 1. Cash income resource i Madu, Rotan 2. Medicine from forest Honey 3. Clean water River (sanitation and drinking water) 4. Construction material and tools Rattan (for climbing, rope to tie parang/mandau).
6		Areas with Important Functions as Traditional Cultural Identity of Local Communities.	<ol style="list-style-type: none"> 1. Old graves on lembo-lembo along the the stream of Sei Merotok 2. Old graves on lembo-lembo along the the stream Sei Monggoh and its tributaries 3. Remnants of settlement and graveyard in the upstream of Sei Monggoh (Sei Monggoh Karang) 4. Fragments of parang/mandau Ayus 5. Remnants of Old Settlement (Kampung Lama) by the Lemujan river

4.2. Public Consultation Result

Implementation:

Date	13 – 14 February 2014
Venue	Hotel Mesra, Samarinda

Attendance list of the Participants of HCV Assessment Public Consultation

No	Name	Institution	Telephone
1	Krisna Adib S	Lab. Dendrologi KaHutan	85234077225
2	Azam Khusnaini	Lab. Dendrologi KaHutan	8562008682
3	Nurdin S	BLH Prov. Kaltim	81350979772
4	Tri Setyadi	Ekologika	8156857503
5	Burhan Tj	Ekologika	
6	Ninil RM Jannah	Ekologika	81328011915
7	Wening	Ekologika	8179401911
8	Stepanus	Kec. Slluq Ngurai	82358839393
9	Peni setyaningsih	BP2HP XIII SMD	81328415581
10	Pajar Gumelar	Assesor	85250501166
11	Duma M	Bappeda Provinsi	8125888060
12	Lucky	SHJ	
13	Sri Utomo	AAU	
14	Priyono	AAU	
15	Ndan Imang	SF-UNM	8125890596
16	Arnold Siagian	KWL	81350111110
17	Dalius	KWL	81350670310
18	Udin	Petinggi	82156817000
19	Rendi M	Petinggi Muara Ponaq	81210509945
20	Inting	Petinggi Kendesk	81347702864
21	Alfan Subekti	Fasilitator	8125425059
22	Edy Hendras	Fasilitator	8129338676
23	Okki A.A		8563312349
24	Purnomo Rohim	Mapflofa	85347049034
25	Raharjo Ari S	Ekologika	85387023777
26	M .Hasan		
27	Hetty Manurung	FMIPA Biologi UNMUL	81347195582
28	Taufan Batuah	BLH Kalbar	81350823202
29	Imran	BP2HP XIII	81347789715
30	Y. Yasmin	KWL/KHL	
31	Noer Soeprijadi	PT. KAM	81555305553
32	Egi P. Hutomo	SRH	81371347017
33	Sukartiningsih	Pusrehut	8125898844
34	Sutedjo	Pusrehut	8125320051
35	Syoim	Fa.Hutan UNMUL	8125881408
36	Adi H	SRH	8.13474E+11
37	Edy S	TNC	811583120
38	Eddy M Agi	Yayasan Bioma	8125529225
39	Budi Yahma W	PT. SRL	8561708155
40	Anwar Rafiq	BLMD Kukar	81350020021
41	Syachraini	WWF IND	82155794523
42	Syahrani A	Disbunhut Kukar	8.53918E+11
43	Ulfa Rosyida	BKSDA Kaltim	85246880767
44	Fitriyana	Forum Studi Perempuan Anak	8125844803

		Kaltim	
45	Marlon Aipassa	FaHutan UNMUL	82154248355
46	Syahrur Ramadhan	BPKH wil IV	85215246609
47	Taufiq K	Disbun Kaltim	
48	Drs. Syarifudin S	Disbun Kaltim	
49	Thomas R Hutahuruk	S3Ilmu Kehutanan	85248733774
50	Yuniar Setiani	Jatam	85722194655
51	Christin Agustina	Jatam	85245202029
52	I Ketut Bagia Yasa	Jatam	85391791124
53	Yahya Rahardin	UNMUL	81347639693
54	Paul Carleto	TFT	
55	Suyanto		81347772055
56	Slamet	SCMR	8125879392
57	Nurhadi	Kec. Muara Bengkal	85250757544
58	Syahrudin	Muara BEngkal	81346371700
59	Mahgoni	Muara Bengkal Ilir	81350509615
60	Adi Wijaya	Benua Baru	81347453762
61	Imansyah	Lamin Telihan	82353442078
62	Tanjung	Lamin Telihan	82353257331
63	Kusno	Mekar Jaya	82152079944
64	Kadir	Petinggi Puan Cepak	81253234925
65	Supiani	Puan Cepak	82151811117
66	Saipudin	Panca Jaya	85347551366
67	Surani	Sumber Sari	81335243111
68	Indra Saputra	Sabin Tulung	8.21557E+11
69	Jihan	Pulau Pinang	82330455555
70	Amondi	Desa Lamin Telihan	85346367278
71	Cus	Desa Teluk Bingkai	81350993088
72	Saiduani	Desa Teluk Bingkai	8253478867
73	Imanuel	Desa Lamin Telihan	8.23234E+11
74	Hamsiansyah	Desa Sidomukti	85246813156
75	Diding	Ecositrop	85386381183
76	Soegeng	Ktr Camat Kembang Janggut	85251583960
77	Agus Ariansyah	Menamang Kanan	81350364436
78	Khoirul Mashuri	Giri Agung	81253789838
79	Hanafie S	Sebulu Modern	81347058353
80	Basarudin	Desa Beloro	81253006874
81	Haji Barliang, S.Sos	Kec. Muara Kaman	81347860102
82	Meyda	Jatam	
83	H. Suwandi	Camat Muara Bengkal	8125896666
84	Suriansyah	Desa Batu Balai	82353239522
85	Murjani	Camat Sebulu	81350855929
86	Vina Anggeriyana S.Sos	Kec. Muara Wis	8235234944

Summary of the inputs from Consultation Process of HCV assessment in East Kalimantan

Main Inputs

Inputs from public consultation in East Kalimantan are divided into categories as follow:

Methods

- Several data, including measurement of area, locations, elevation, coordinates, species and its names need to be corrected due to differences in numbers as well as

references.

- Data and redactional seem like copy & paste of other reports which left a nonprofessional impression
- Producing map of each HCV area to show where and how much is the area under the company's responsibility, thus area management and protection could be deliberately carried out
- Re-socialization to several villages/community groups that haven't been met in the initial survey is needed, as well as interview regarding information on HCV 5 & 6.

Values

- Swamp is not used for company' activities
- Water sample test to update its condition
- Identifying orangutan and its habitat
- Forest on a more than 500 meter area has to be included in HCV due to its prone condition
- Map to visualize validity & reliability of data towards ecosystem area
- Plants included in HCV list should be validated for its species name, local name and distribution, whether the plants are exist in the location or not.
- Identifying and protecting water source as well as sustainable management of springs and waterbody for community' need.
- Identifying the needs of wood to ensure its supply
- Several cultural asites and ttributes haven't been identified in th report, such as lamin (traditional house of Dayak Tribe) and graves. Additional survey is needed to serve this purpose.

Management and follow up process

- Developing wildlife corridor especially orang utan
- Increasing the quantity of information/warning board in the area
- Relocating the trapped orang utan
- Approaching community to reduce claim over land
- Elaborating action and process carried out by management unit in their protection as well as best management practice.
- Identifying and developing wildlife corridor between segregated area of KWL and KHL concession. More articulate management plan if it's not feasible
- Establishing multi stakeholders forum for management coordination of HCV areas
- Involving community and stakeholders in forest and land fire prevention, countermeasure as well as monitoring in concession area. Developing community based fire community and collaborative patrol.
- Preserving and documenting local wisdom in the form of local regulations as well as other historical documentaries.
- Proposing and developing the plan of trees for livelihood in community' land
- Allocating land particular land for customary community' woods supply
- Proposing to establish conservation zone park and arboretum in conservation zone
- Management unit facilitating the formulation of customary regulation for land use as well as its resource and the relations of stakeholders
- Increasing targeted village development program such as honey producing and marketing, original lempok durian (traditional sweets from durian), land provision,

seeds provision, and farmers' group assistance.

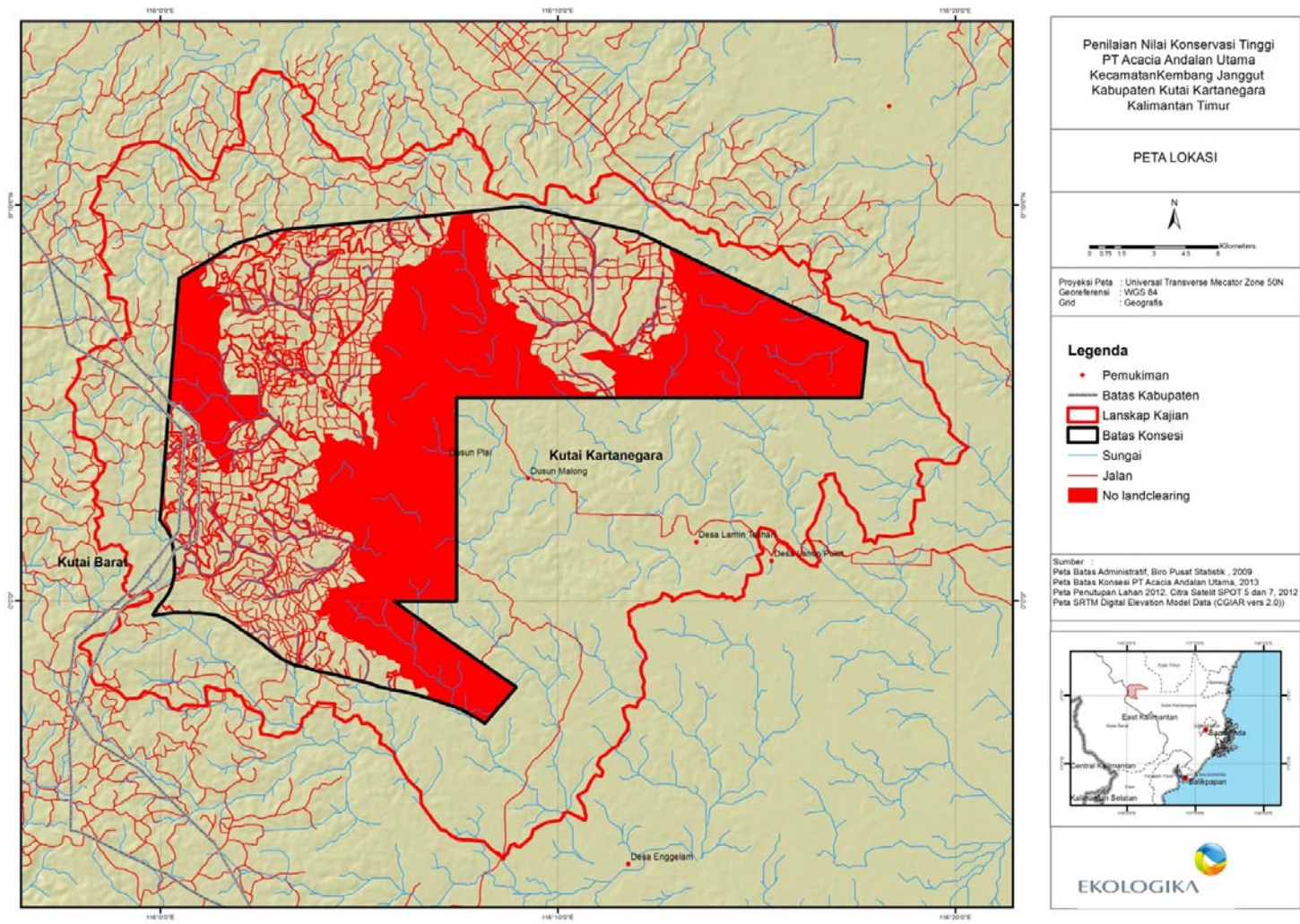
- Synchronizing management unit CSR programs with Sub-District level development plan forum (Musrenbang).
- Engaging multi stakeholders, such as community, company, government institution, and NGOs in monitoring.

5. RECOMMENDATION

HCV	Sub Item	Definition	Management	Monitoring
1.	1.1	Biodiversity in protected or conservation area	Not opening the region (land clearing) in the riverbank designated as HCVMA / HCVA 1.1	There should be no land clearing in the riverbank areas
			Increase public awareness of the importance of riverbank areas as the area that has the function of protection	Raising Awareness about the function of Riverbank areas to communities around the concession area
			Controlling illegal logging in forest areas	Participatory mapping of forest areas and cultivated fields of society
			Enrich the type of vegetation in the area / conservation areas that have been set by the company	Cooperation with the public related to the fire control by setting the opening of the fields
			Restriction / marking in staple crop areas bordering to HCV 1.1	Marking / Polet on RKT plots plantation areas adjacent to HCV 1.1
			Mapping potential/under risk of forest fire	
	1.2	Endangered species	Planting and enrichment of species which are threatened with extinction in the region of Regional Germplasm Preservation and Protection of Wildlife	Increase public awareness, staff and implementing operators of Land clearing conservation activities on the highly endangered species in concession
			Enrichment in the area of riverbank	Planting and enrichment of highly are threatened with extinction species in the area of germplasm conservation and wildlife protection areas
			Controlling illegal logging in forest areas	Monitoring and patrolling forests against illegal logging efforts
			Determination of High Conservation Values	Arrange for the collection of coral for the road
			Settings farming communities in the concession area	
			The prohibition of taking coral in the area of heath forest	
	1.3	viable population of endangered restricted range or protected species	<u>Steps of forest cultivation</u> <ul style="list-style-type: none"> • Determining trees as seedling stands • Making Seedlings In Nursery • Maintaining plantation • Planting and Enrichment Plant 	Maintenance of food sources, nesting trees
			Maintaining food sources, nesting trees, vegetation structure which is essential for Endangered, Threatened, and Protected (TTD) Species micro-habitat	Raising awareness about the Endangered, Threatened, and Protected (TTD) Species species in the concession with the

				community and staff
			Controlling the pressure on Endangered, Threatened, and Protected (TTD) Species	Community hunting regulations needed to control hunting pressure on Endangered, Threatened, and Protected (TTD) Species species
			Raising awareness about the Endangered, Threatened, and Protected (TTD) Species in the concession with the community and staff.	Introduced a ban on hunting / trapping of wildlife native to the staff of AAU
			Habitat improvement for several species of wildlife and monitoring Endangered, Threatened, and Protected (TTD) Species populations.	Endangered, Threatened, and Protected (TTD) Species habitat improvement
			Imposed a ban on hunting wild animals and exotic vegetation collection it to the staff of PT. AAU	
2	2.3	Area containing populations of representative species	Forest fire control	Avoiding forest fragmentation
			Landscape Management Cooperation	Conduct collaborative management of landscaped areas with other stakeholders (communities around, owners of other licensing and related agencies)
			Not doing area expansion in company conservation area and maintain the river border for forest cover	
			Training on identification	
3		Rare or threatened ecosystems	Prevention of forest fires	Establishment of community based fire management
			Landscape Management Cooperation	Conduct collaborative management of landscaped areas with other stakeholders (communities around, owners of other licensing and related agencies)
4	4.1	Services of water supply and flood protection for downstream communities	Identification and further restrictions on HCVA 4.1	Identification and further restrictions on HCVA 4.1
			Determination riverbank	Demarcation of allowed logging to be harvested on plots / block timber harvesting which bordered to HCVA 4.1
			No logging in the forest area, which irrigates the village.	

	4.3	Natural Barriers services to prevent the spread of forest fires or land fires	Not doing harvesting / clearing the area in the buffer area of the fire	Identification and further restrictions on HCVA 4.3
5		Basic needs of local communities	Participatory mapping with the community to finalize HCVA 5	Participatory mapping
			Building a joint agreement between the community and company	Signatories to the agreement for maintaining the area as the result of a participatory mapping
			Collaborative management sub watershed around the village	Developing a joint programs about sub watershed around the village
			Socialization of participatory mapping agreement to the management, staff, contractors and all members of local communities as well as to other companies which operates around the area	Socialization of participatory mapping agreement to the management, staff, contractors and all members of local communities as well as to other companies which operates around the area
			Facilitating the community in making the rules on the river management	The divisions of responsibilities
			Facilitating the community in making rules or decisions about the village and the area of cultivated and others cultivation lands.	Developing of counter mechanism if the agreement is violated
			Increased public awareness of the importance of forests	Developing collaborative management for sub watershed around the village
6		Traditional cultural identity of local communities	Identification and delineation of further HCV	Further HCV identification and delineation through participatory mapping
			Reinforcement of local culture	Drafting and implementing management strategies that can be received in culturally important sites.
			Drafting and implementation of management strategies that can be received in the sites that have cultural importance.	
			Cultural documentation	



Map summarizes no Land Clearing HCV area of AAU

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