

Ulu Kalumpang-Wullersdorf Sustainable Forest Management Project

The Sustainable Forest Management Project at Ulu Kalumpang-Wullersdorf is now in its ninth year, starting from 2006. Activities under the project include cutting down of illegal palm oil trees and re-forestation and silviculture treatment that had changed the whole scenario of the UKW-SFM area inline with the main objectives of the project. The 2015 annual work plan (AWP) devised was used as the main reference for the financial management and as for all activities conducted in 2015. Activities include forest restoration, removal of illegal farming, forest treatments, physical development, monitoring of wildlife and FSC (Forest Stewardship Council) certification process. These activities are conducted under the RMK10 (10th Malaysian Plan) totalling RM 2.1 million.

A total of six (06) forest reserves are involved under the Sustainable Forest Management project which is a target of various encroachments especially by illegal farming and culmination of illegal palm oil planting. Thus with the collaborative effort with state funding, the department was able to restore most of the encroached areas. This is how an ongoing and continuous effort. The reserved forests involved in the project are as shown in table 1 below;

Table 1: List of forest reserves under UKW-SFM project;

No.	Forest Reserve	Class	Area (ha)
1	Ulu Kalumpang	I	50,736
2	Mt. Wullersdorf	I	7,165
3	Kalumpang VJR107C	VI	950
4	Kalumpang VJR107D	VI	1,950
5	Kalumpang VJR107E	VI	868
6	Madai Baturong	VI	2,312.74
Total			63,981.74

Field Activity

1. Restoration

A few areas were involved with replanting and crop maintenance based on the 2015 AWP focusing on Ulu Kalumpang Forest Reserve, Mt. Wullersdorf Forest Reserve and Kalumpang Forest Reserve VJR107D (Sapang). A total of five (05) stakeholders were entrusted to implement the activities namely Syarikat Pertanian Kondowoi, Syarikat EZ Enterprise, Syarikat Pemborong Sri Anak Pemuda, Syarikat 1 Borneo Global And Syarikat Izza Enterprise.

As planned under AWP 2015, two (02) areas had been identified for replanting totalling 150ha. These are Mt. Wullersdorf Forest Reserve and Kalumpang Forest Reserve VJR 107(D). Success towards the implementation of the project relies highly on the weather condition, work force and supply of seeds. To date, these are the numbers shown;

Table 2: Restoration area in 2015

Area	Target (ha)	Actual (ha)	(%)	Contractor
HS Kalumpang VJR 107 (D)	40	40	100	IZZA Enterprise
HS Mt. Wullersdorf (Balung)	110	110	100	1 Borneo Global
Total	150	150	100	



Aerial view of the restored area.



Workers are planting saplings of ketapang.

Maintenance of the planted areas have been ongoing to prevent and minimise mortality of planted plants due to grass competition, wild life attacks, low quality of seeds and unfavourable weather conditions. In 2015, a total of 500 ha had been targeted for maintenance involving four (04) areas. However, the maintenance work in Ulu Kalumpang FR (Landau) is an on going project until October 2016. The maintenance progress is shown in table 3 below;

Table 3: 2015 Maintenance of tree seeds area

Area	Target (ha)	Actual (ha)	(%)	Contractor
Mt. Wullersdorf FR (Teck Seng)	30	30	100	EZ Enterprise
Mt. Wullersdorf FR (Balung)	110	110	100	EZ Enterprise
Ulu Kalumpang FR (Landau)	110	110	100	Pemborong Sri Anak Pemuda
Ulu Kalumpang FR (Sg. Mantri)	250	250	100	Pertanian Kondowoi Pemborong Am
Total	500	500	100	



The view from the air of strip line plant maintenance.

2. Silviculture

The earlier area under silviculture treatment was only at 150 hectares as shown in the 2015 AWP for Mt. Wullersdorf FR. However, during the implementation stage a total of 250 ha were successfully treated. They are 125 ha in Mt. Wullersdorf FR (Checkpoint) and 125 ha in Ulu Kalumpang FR (Sg. Mantri) areas. Treatment only involves clearing of host plants to enable the growth of trees under the selected areas. These were conducted by selected contractors through the tendering system as shown in Table 4;

Table 4: 2015 Silviculture Treatment Areas

Forest Reserve	Target (ha)	Actual (ha)	(%)	Contractor
HS Ulu Kalumpang (Sg. Mantri)	125	125	100%	Rakanjaya Enterprise
HS Mt. Wullersdorf (Checkpoint)	150	125	83%	MZN Enterprise
Total	275	250		



Aerial view of the area which has been treated.



Climbers died as a result of forest treatment works

3. Wildlife Management

In 2015, a few selected areas were equipped with “hidden surveillance camera” namely Ulu Kalumpang Forest Reserve (Sg. Mantri and Landau). Still, live observation was also conducted in those areas. The main objective was to capture and record existing wild life in the restored area involved since 2008. The “hidden surveillance camera” method is actually the best way in conducting these type of surveillance besides personal human monitoring, which is also considered, the best method in tracking any wild life activities. It has been proven effective even through various operations including private based researches. This method could record actual data on site without having to capture them including some endangered species such as *Elephas Maximus* (Asian elephant), Samba Deer (*Cervus Unicolor*), Honey Bear (*Helarctos Malayanus*) and Wild Boar (*Sus Barbatus*).



Wild Pig (*Sus barbatus*)



(L-R) Samba Deer (*Cervus unicolor*), Pgmy Elephant (*Elephas maximus*) and Red Giant Flying Squirrel (*Petaurista petaurista*)

4. Protection And Enforcement

Priority is given towards protecting the forest reserves from criminal activities such as illegal logging, encroachment by farming and wild forest fires. Enforcements include conducting scheduled shore patrols and air patrols using helicopters. Fences are also planted up around borders of the targeted forest reserves to prevent future encroachments.

In 2015, there were "bar" logs activities (Bantalan activity) detected through aerial surveys in the Ulu Kalumpang FR bordering Ladang Syarikat Sim Yong in Tingkayu. Approximately 800 pieces of wood of various sizes (belian) were found and confiscated and are now kept in the Kunak Forestry Department Office, for further action.



(L-R) Belian wood, Seraya wood and converted timber that were seized and confiscated.



(L-R) Illegal converted timber inside forest reserve and converted timber were arrested inside oil palm plantations.

Boundary Survey

Boundary surveying of Kalumpang Forest Reserve VJR107E (Bt. Mangkok) has been completed and the measuring plan has been approved by the Lahad Datu JTU. Meanwhile the measuring plan for Kalumpang FR VJR107D is still awaiting approval from the Tawau JTU. These plans are important in identifying the exact boundaries of the targeted area so as to enable our officers to easily determine whether encroachments are done or not in the areas. Enforcement actions on encroachment areas are targeted to be implemented in 2017 pending the approval of budget from the state government.

Forest Roads

Forests roads are a vital component in making sure all the targeted activities under the UKW-SFM such as forest restoration, silviculture treatment, wild life monitoring and forest protection is successful. These maintenance are only focussed inside the restoration forests blocks involved, namely Ulu Kalumpang FR in the Sg. Mantri area, Sapang area and Landau. Maintenance of these roads are usually conducted only by nominated contractors.

Table 5: 2015 Forest Roads Maintenance

No	Location	Target (km)	Achievement (km)
1	Sapang	2	2
2	Cenderamata/Landau	5	5



Machinery backhoe repairing the road



Road completed repaired

Forest Certification

An early assessment on the areas concerned had been done in 2012 by the elected evaluator but due to a few problems arising it had to be stopped temporarily. Only in the middle of 2015 were the certification works reinitiated actively, especially in trying to close up gaps found during the process. A total of 32 gaps had to be rectified. A few activities were conducted to rectify those gaps such as conducting research 1 to 4 HCVF and HCV 5 & 6 researches.

In addition, to fulfil the certification criteria of the FSC, The Kunak Forestry Department staffs were sent to attend courses conducted and organised either by the department or other

NGO's such as the WWF. Courses include HCVF, wild life courses, fire-based management course and stakeholders consultancy program. These are vital courses for the staff in ensuring they are knowledgeable in the targeted fields and also in ensuring qualified officers within the department are equipped. This first batch of staff is also going to be mentors to other staff within the department. This department will continue to send staff for relevant courses in the future. A pre-assessment of audit is expected to be conducted in August 2016.



Participants listening to a lecture in stakeholder consultation program and the speakers are answering questions from participants.



Participants were briefed by speakers in the course of forest fire prevention.



Participants were making a fire break.



Participants in a stakeholder consultation program and HCV 5 & 6 program with the villagers.



Program HCV 5 & 6 with the villagers.

What was achieved in 2015

The table below shows the summarized achievements of all activities for this project in 2015

Table 05 : Achievements in 2015

No.	Activities	Achievements
Forest Operations		
1	Air surveillance	3 times (15 hours 15 minit) To monitor and to get aerial view of project area and look out for illegal activity.
2	Forest protection activities and patrolling	1. Ground monitoring with help from special task force "OPS SADANG". 2. Installation of forest reserve signboards along the forest reserve boundary at Mt.Wullersdorf FR, Ulu Kalumpang FR and Kalumpang FR. 3. Found some locations of illegal cultivation activities in a small scale in Ulu Kalumpang FR and bantalan inside forest reserve.
3	Establishment of PSP	To be completed in 2016 and no assessment was made due to preparation of new PSP.
4	Road maintenance within working block	Focus only in Cenderamata Landau, Sg. Mantri, Mt. Wullersdorf dan Kalumpang VJR107E (Sapang)
Forest Restoration		
1	Sg. Mantri, Ulu Kalumpang Forest Reserve Planting 250 hectares	Listed work as in AWP 2015 was done. Contractor : Pertanian Kondowoi Pembrong Am
2	Cenderamata Landau, Ulu Kalumpang Forest Reserve Maintenance of planted seedlings-110 Hectares.	Maintenance of 110 ha has been started in September in Landau restoration area where maintenance work and replanting of dead seedlings and weed control (elephant grass) is carried out. Contractor : Pembrong Sri Anak Pemuda
3	HS Kalumpang VJR107D Forest Reserve (Sapang) 40 Hectare area	Restoration of 40 hectares was started in October 2015 and has managed to plant 13,000 tree saplings. One round of maintenance was made. This project was carried out in December 2015
4	Mt. Wullersdorf Forest Reserve <ul style="list-style-type: none"> • Teck Seng area - 30 Hectares • LKSK area – 110 Hectare • Balung area – 110 Hectare 	Listed work as in AWP 2015 was done. Contractor : EZ ENTERPRISE Listed work as in AWP 2015 was done. Contractor : 1 BORNEO GLOBAL This project was conducted in Ulu Mt. Wullersdorf (Balung). The project is to maintain the area planted in 2014 to ensure that saplings will survive. Contractor: EZ Enterprise

No.	Activities	Achievements
Silviculture		
1	Mt. Wullersdorf FR	The work of silvicultural treatments have been successfully carried out in selected areas of forest reserves in the area (125 Ha).
2	Ulu Kalumpang FR	Silvicultural treatment in Sg. Mantri was treated in 125 hectares.
Boundary Demarcation And Maintenance		
1	Ulu Kalumpang Forest Reserve Boundary maintenance	Completed; 3 kilometres.
2	Kalumpang VJR107E (Mt.Mangkok) Forest Reserve	Survey on the ground was completed in April 2013. Plan survey was approved by the department of Lands And Surveys Department at the end of 2014. Contractor : Jurukur Masa Sdn Bhd
Expenditures		
1	Under Vote D11 025: Ulu Kalumpang-Wullersdorf SFM Project). RMKe10 – State Government Development Budget.	Budget approved for 2015 : RM 2,100,000.00 Overall expenditure: RM RM2,100,000.00 Expenditure performance: 100%.
Project Compliance, AWP 2015		Project comply with 90 %

Table 6: Summary of restored areas, destroyed illegally planted oil palms and silviculture treatment

No.	Locations	Area (ha)
Restored Area (Ex- Encroachment)		
1	Ulu Kalumpang FR (Sg. Mantri)	600
2	Ulu Kalumpang FR (Cenderamata/Landau)	600
3	Kalumpang FR VJR107C (Mt. Forbes & Mt. Sangster)	97.80
4	Mt. Wullersdorf FR (Year 2014+2015)	360
5	Kalumpang FR VJR107C (Sangster)	22
6	Ulu Kalumpang FR + Madai Baturong FR VJR107F (Binuang) - Sime Darby Estate (Binuang) boundary.	7
7	Kalumpang FR VJR107D (Sapang)	40
Total		1,726.80
Destruction illegally planted oil palms		
1	Ulu Kalumpang FR	2,924
2	Kalumpang FR VJR107C (Mt. Forbes & Mt. Sangster)	300
3	Mt. Wullersdorf FR	455.30
4	Kalumpang FR VJR107D (Sapang)	93.98
Total		3,774
Silviculture Treatment		
1	Madai Baturong FR VJR107F (Binuang)	450
2	Kalumpang FR VJR107D (Sapang)	300
3	Ulu Kalumpang FR (Sg. Mantri)	125
4	Mt. Wullersdorf FR (Checkpoint)	125
Total		1000