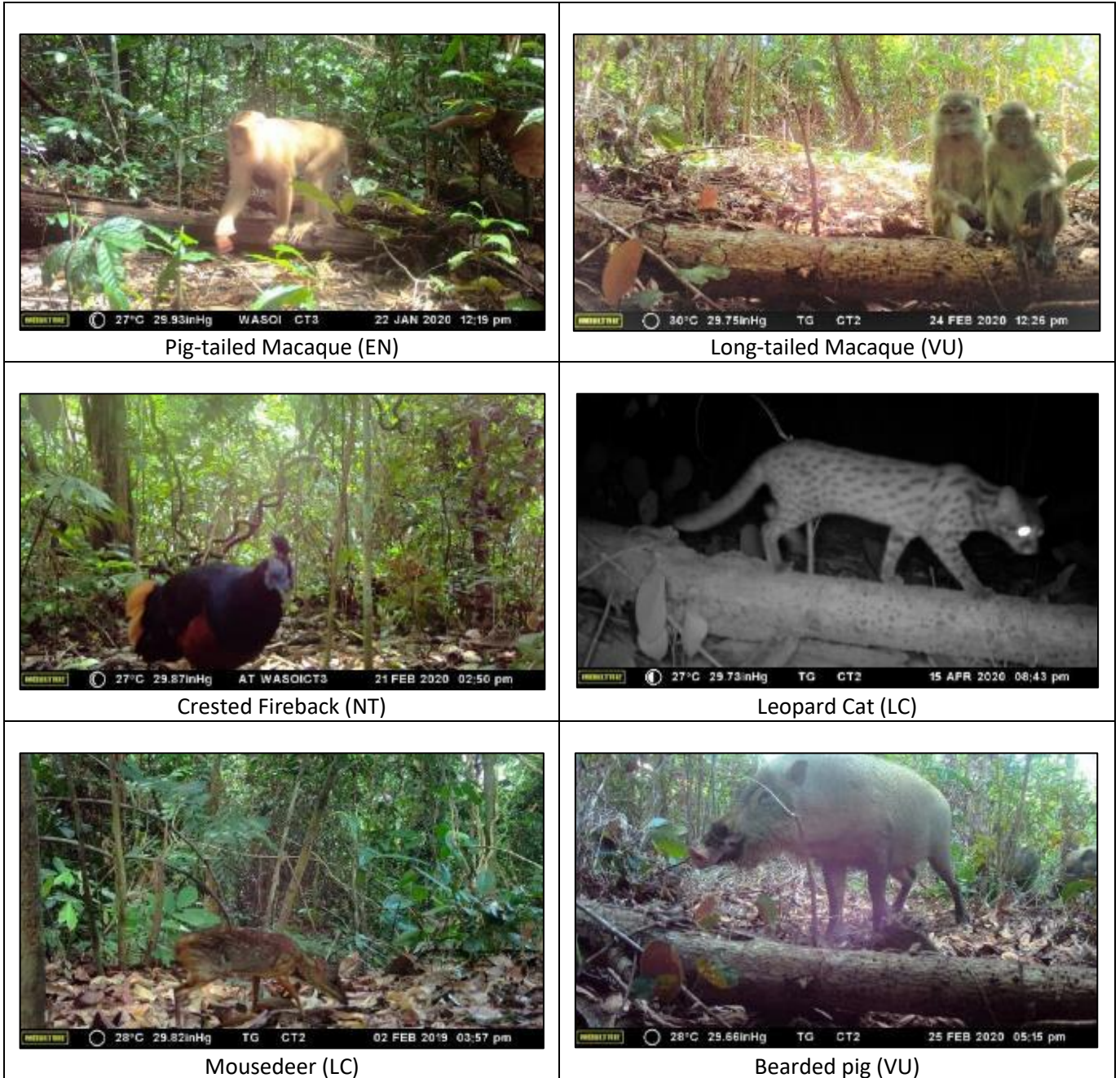


SUMMARY OF AFI ENVIRONMENT MONITORING ACTIVITIES 2020

1. Natural forest area with high biodiversity (including plantation gaps):
 - (i) Wildlife monitoring





Sunda stink badger (Teledu) (LC)



Phillipine megapode (LC)



Sun Bear (VU)



Treeshrew (LC)



Malay civet (LC)



Chestnut-necklaced hill partridge (VU)



Barking deer (LC)



Pangolin (CR)

IUCN: CR – Critically Endangered; EN – Endangered; NT – Near Threatened; VU – Vulnerable; LC – Least Concern; and DD – Data Deficiency.

Table 1: Other wildlife captured by camera-trap during wildlife monitoring at AFI area.

No.	Species (Common name)	IUCN status
Mammal		
1	Sambar Deer	VU
2	Black-banded Squirrel	LC
3	Rodent <i>spp.</i>	-
Birds		
4	White-crowned Shama	LC
5	Hooded Pitta	LC
6	Emerald dove	LC
7	Bulbuls <i>spp.</i>	-



Figure 1: Roadkill found during monitoring activity - Leopard Cat (LC).

(ii) Monitoring and maintenance of Wasoi natural forest.

	<p>Signboard of Wasoi as a protected natural forest.</p>
	<p>Enrichment planting inspection in Wasoi.</p>

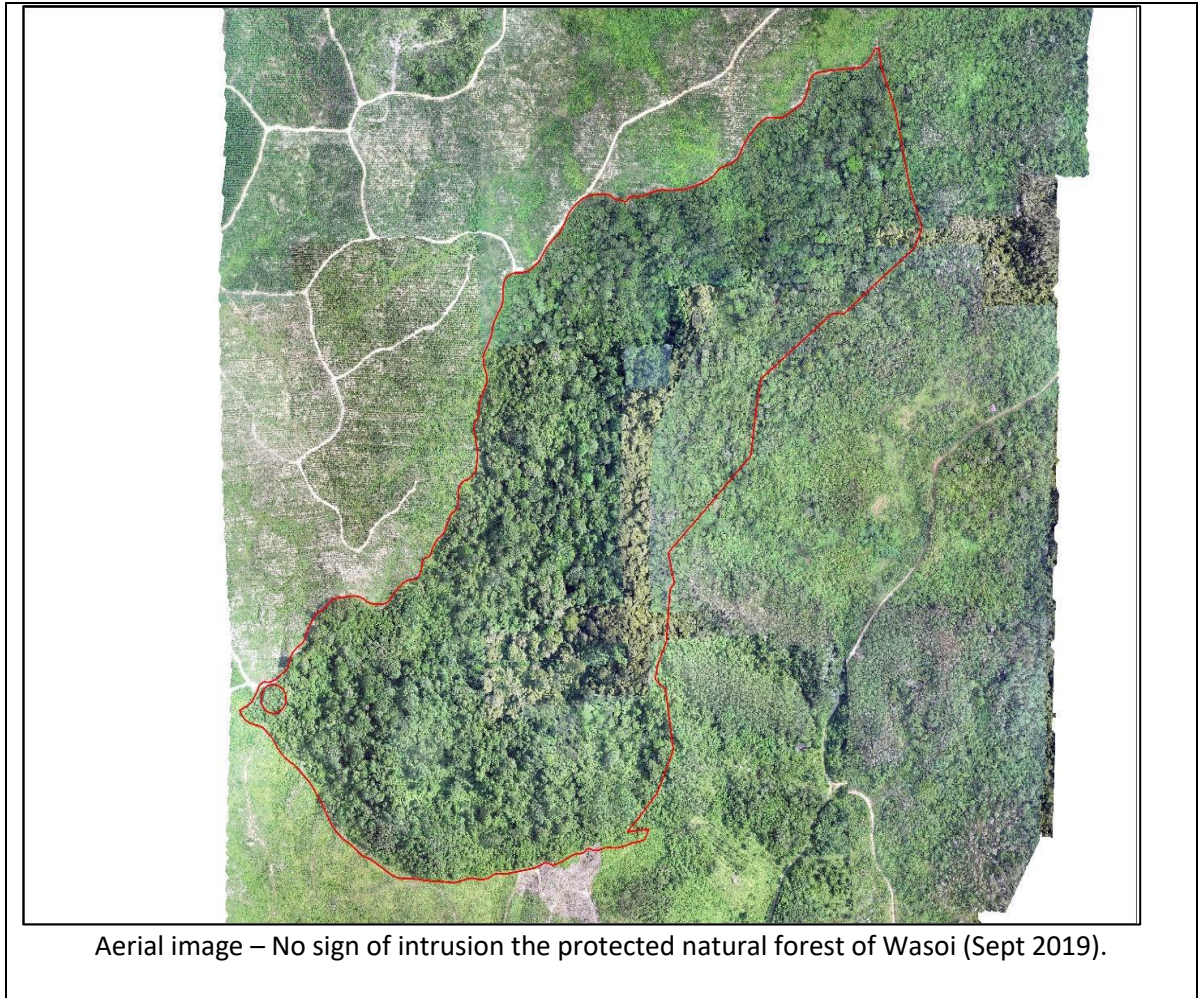


Table 2: Monitoring of natural forest in AFI

Date	Activity	Location	Remark(s)
19.05.2020	Inspection of enrichment planting (Plot 1)	WASOI CA	
03.06.2020	Inspection of enrichment planting (Plot 5)	WASOI CA	
23.06.2020	Ground inspection of natural forest; Installation of signboard	WASOI CA	Blue paint is still clear, no sign of encroachment

2. River/Stream

	<p>Intact river riparian</p>
 	<p>River riparian signboard</p>



Water sampling activities

Table 3: Monitoring of river/stream

Date	Activity	Location	Remark(s)
02.04.2020	Ground inspection of river/stream and graveyard area.	KAPO 03	Buffers are still in good condition, blue paint are still clear, no changes of water colour, no sign of encroachment.
14.04.2020	Ground inspection of river/stream area.	BODU 12	Buffers are still in good condition, blue paint are still clear, no changes of water colour, no sign of encroachment.
19.05.2020	Inspection of enrichment planting (Plot 1)	WASOI CA	
20.05.2020	Ground inspection of river/stream; Installation of "Rezab Sungai" signboard	Sg. Gumpa	Buffers are still in good condition, blue paint are still clear, no changes of water colour, no sign of encroachment.

16.07.2020	Ground inspection of river/stream	RANT 03	Buffers area still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
04.08.2020	Ground inspection of river/stream; Installation of HCV signboard	KAND 14, KAND 13	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
05.08.2020	Ground inspection of river/stream; Installation of HCV signboard	KAND 15	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
06.08.2020	Ground inspection of river/stream; Installation of HCV signboard	TELA 16	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
10.08.2020	Ground inspection of river/stream; Installation of HCV signboard	RANT 03, RANT 22	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
12.08.2020	Ground inspection of river/stream; Installation of HCV signboard	MARI 35, MKBU 01	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
13.08.2020	Ground inspection of river/stream; Installation of HCV signboard	BODU 12, BODU 01, SG. GUMPA	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
14.09.2020	Ground inspection of river/stream area.	PETA 08	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
03.11.2020	Ground inspection of graveyard.	KAPO 05	Graveyard area is still in good condition, no sign of encroachment.
24.11.2020	Ground inspection of river/stream area.	KODO 04	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
16.12.2020	Ground inspection of river/stream.	KAPO 03	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.

3. Steep Slope Areas (>25°)

	<p>Signboard of steep slope area</p>
	<p>Demarcation of steep slope area</p>

Table 4: Monitoring of steep slope area.

Date	Activity	Location	Remark(s)
07.04.2020	Ground inspection of graveyard and steep slope area.	LATI 10, LATI 15	Buffers are still in good condition; blue paint is still clear.
15.09.2020	Ground inspection of steep slope area; Installation of HCV signboard	NARA 08	Buffers are still in good condition, blue paint is still clear, no sign of soil erosion/landslide, no sign of encroachment.

4. Graveyards & Cultural values

	<p>Demarcation of protected graveyard area within the operation area</p>
	<p>Demarcation of protected graveyard area within the operation area</p>



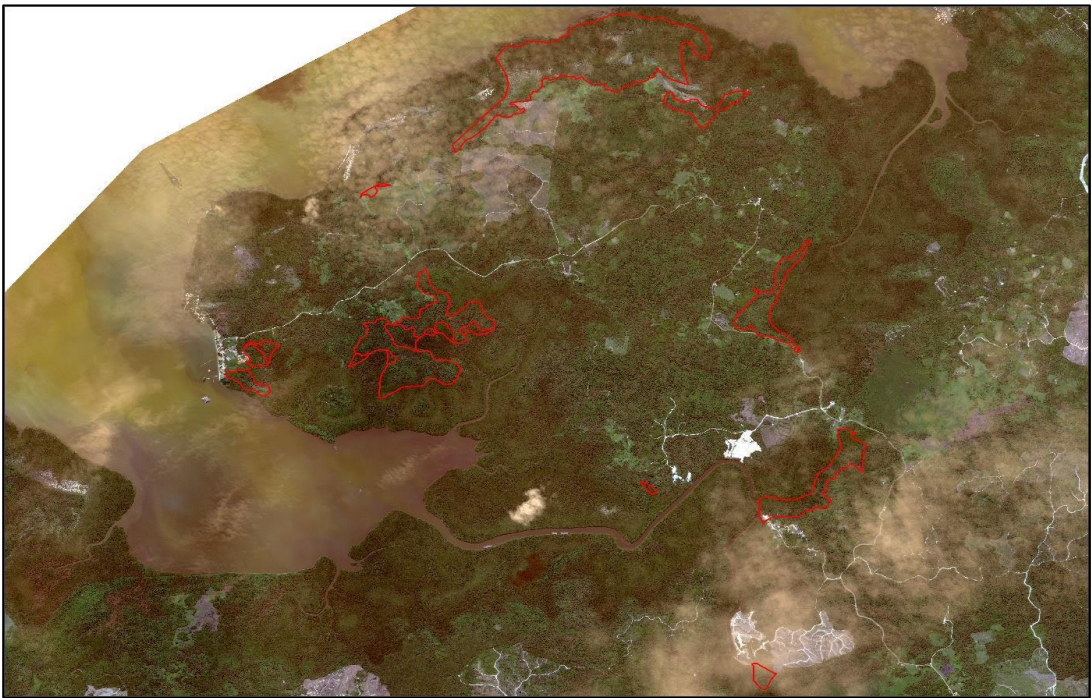
Table 5: Monitoring of graveyard/cultural area.

Date	Activity	Location	Remark(s)
02.04.2020	Ground inspection of river/stream and graveyard area.	KAPO 03	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
07.04.2020	Ground inspection of graveyard and steep slope area.	LATI 10, LATI 15	Buffers are still in good condition; blue paint is still clear.
22.06.2020	Ground inspection of graveyard area; Installation of signboard	LATI15, NURS 06	Blue paint is still clear, no sign of encroachment
03.11.2020	Ground inspection of graveyard.	KAPO 05	Graveyard area are still in good condition, no sign of encroachment.

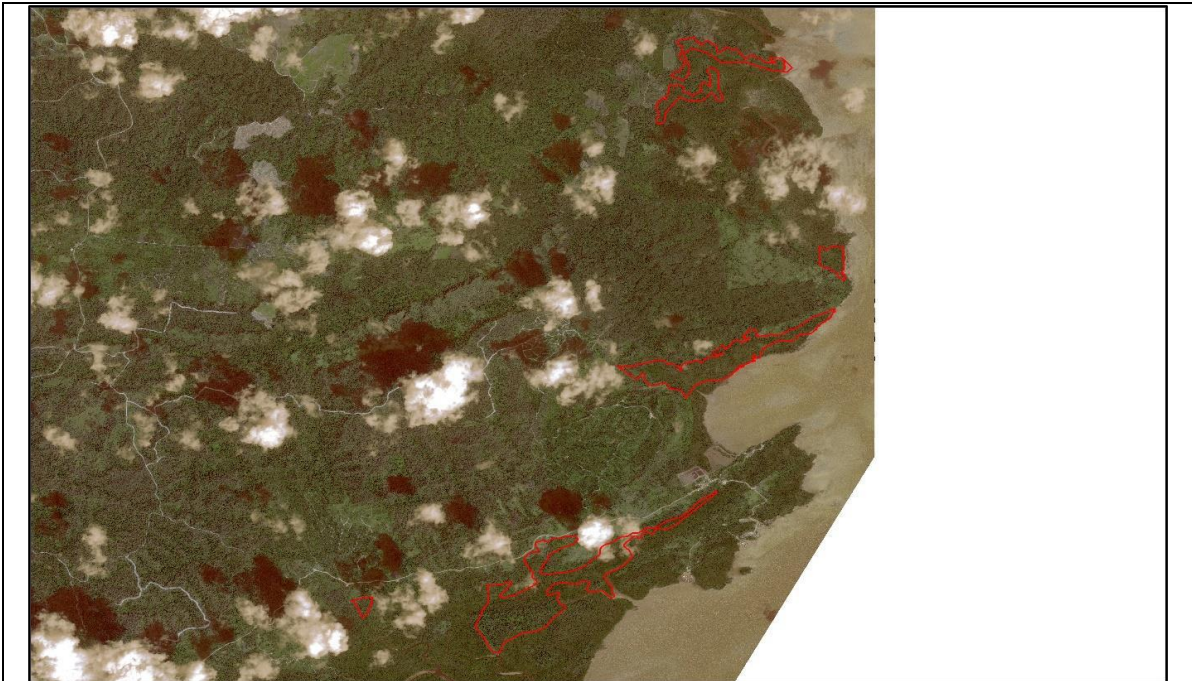
5. Mangrove Forest



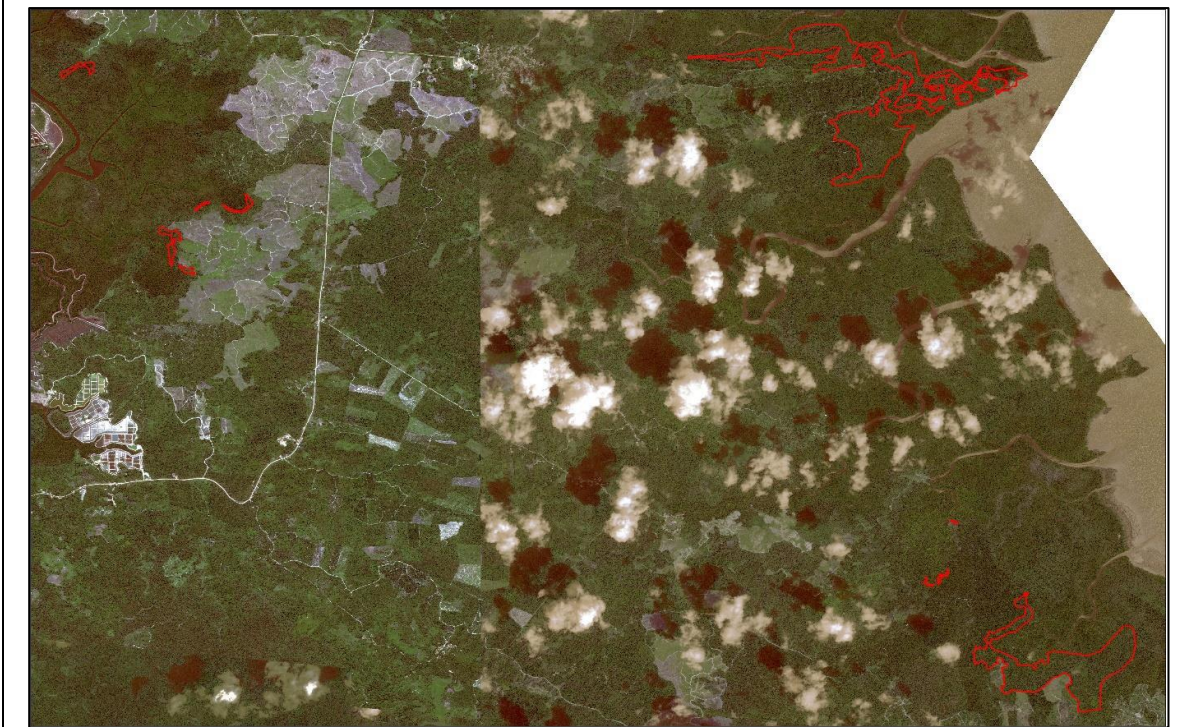
Preserved mangrove area within AFI



No sign of intrusion (Satellite image, June 2018)



No sign of intrusion (Satellite image, April 2019)



No sign of intrusion (Satellite image, June 2018/April 2019)

6. Water Catchment



Table 6: Monitoring of water catchment area.

Date	Activity	Location	Remark(s)
02.04.2020	Ground inspection of river/stream and graveyard area.	KAPO 03	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
07.04.2020	Ground inspection of graveyard and steep slope area.	LATI 10, LATI 15	Buffers are still in good condition; blue paint is still clear.
22.06.2020	Ground inspection of graveyard area; Installation of signboard	LATI15, NURS 06	Blue paint is still clear, no sign of encroachment
03.11.2020	Ground inspection of graveyard.	KAPO 05	Graveyard area are still in good condition, no sign of encroachment.

7. Wetland Areas

	<p>Signboard of wetland area in operation area.</p>
	<p>Naturally preserved of wetland area within AFI.</p>
	

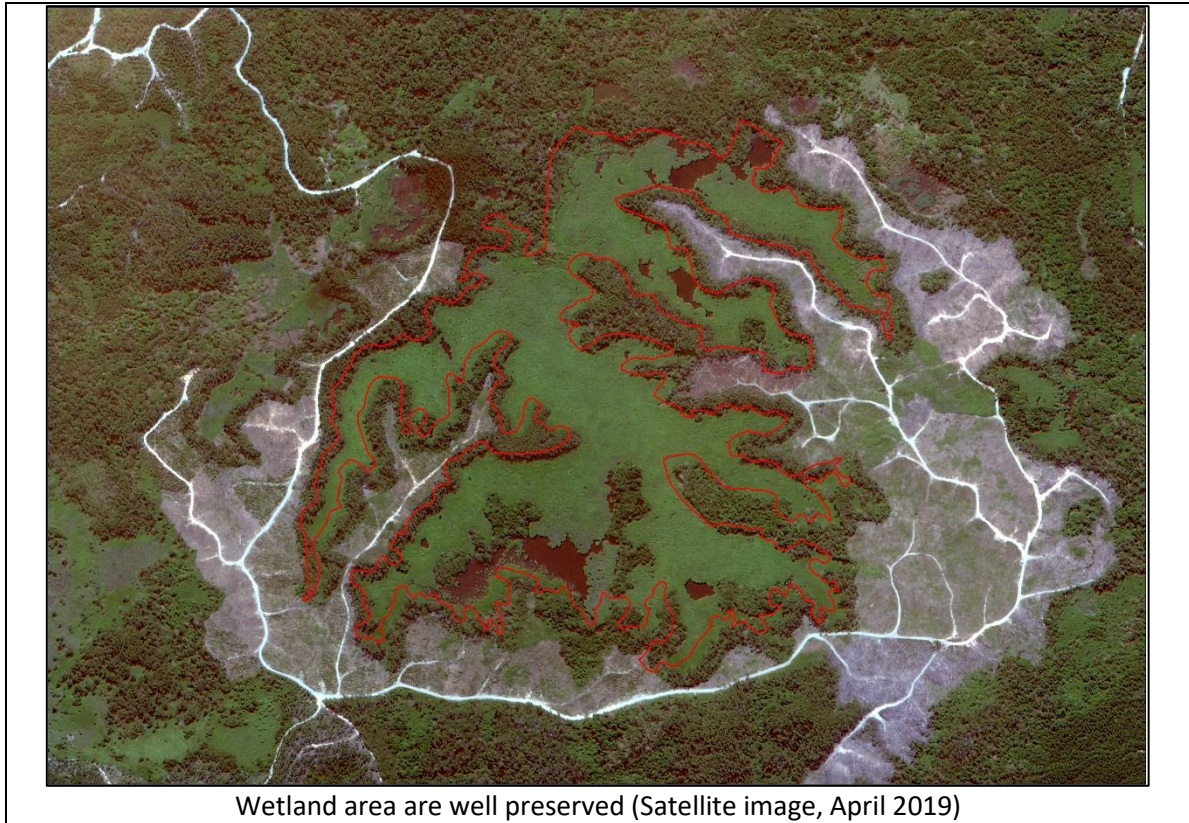


Table 7: Monitoring of wetland area within AFI

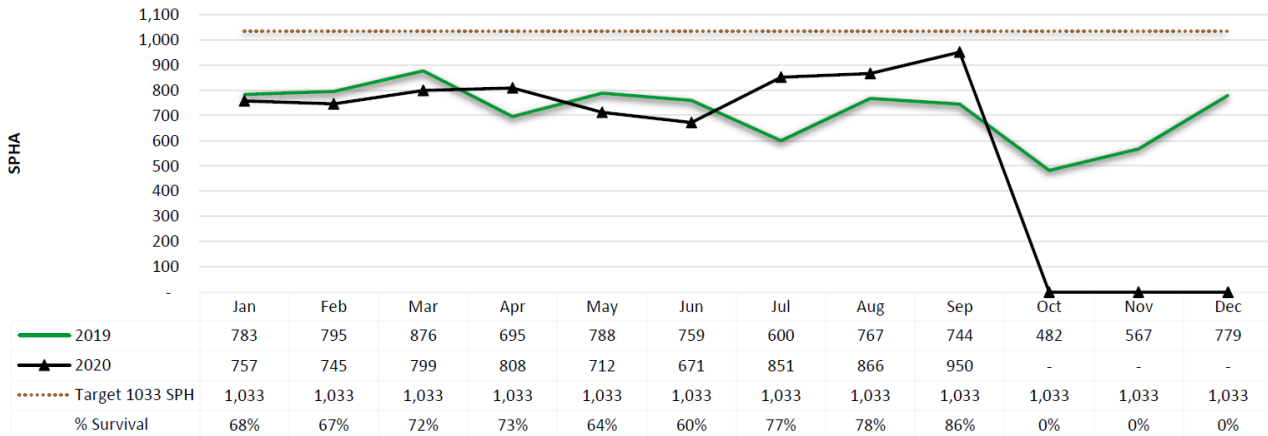
Date	Activity	Location	Remark(s)
06.05.2020	Ground inspection of wetland area	BODU 01	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
14.08.2020	Ground inspection of wetland area; Installation of HCV signboard	BODU 12	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
10.09.2020	Ground inspection of wetland area	KAPO 33	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
22.09.2020	Ground inspection of wetland area	BODU 12	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
06.10.2020	Ground inspection of wetland area	MANTAYA	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.
21.10.2020	Ground inspection of wetland area	KAPO 33	Buffers are still in good condition, blue paint is still clear, no changes of water colour, no sign of encroachment.



8. Forest Inventory

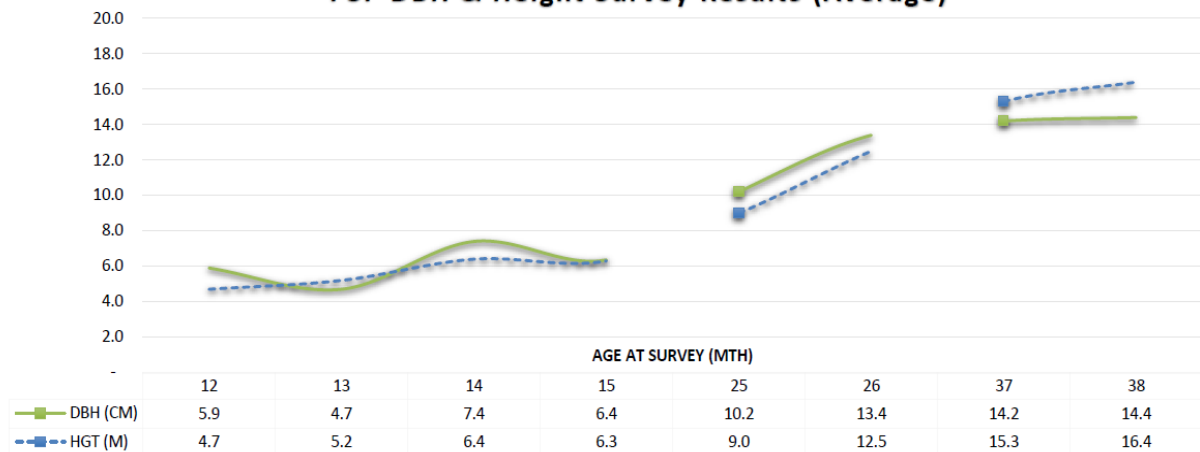
a) Vigour Surveys at 6 months

Euc Pellita - Stems per Hectare



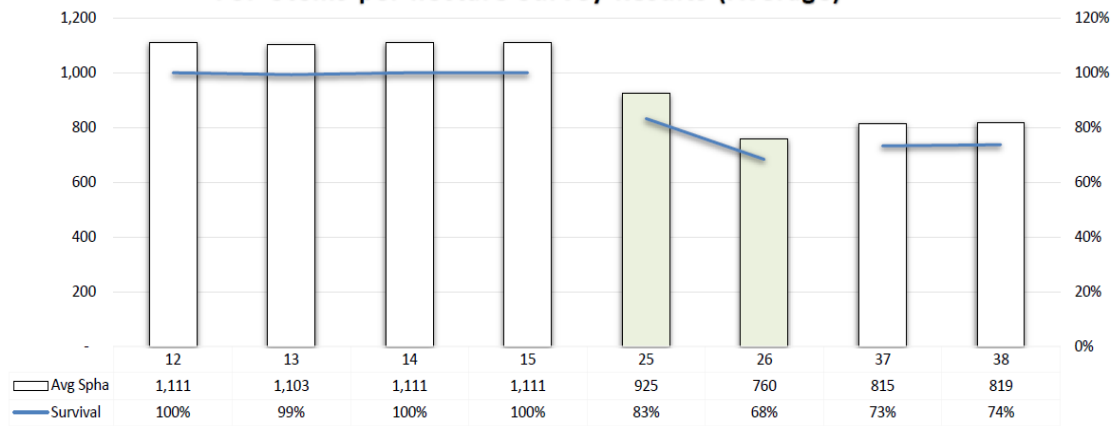
b) Permanent Sample Plots (PSP)

PSP DBH & Height Survey Results (Average)





PSP Stems per hectare Survey Results (Average)



9. Impact of Operation

Due to the pandemic, there are only a few operations that has been done. All impact has been assessed by an independent consultant (Chemsain Konsultant Sdn Bhd) and reported in Quarterly Environmental Monitoring and Compliance Report for 2020.