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ENVIRONMENTAL COMPLIANCE REPORT

FOR

PROPOSED REPLANTING AND PLANTING OF 25,000 HA OF
ACACIA MANGIUM AND EUCALYPTUS PELLITA AT BENGKOKA
PENINSULA, DISTRICT OF PITAS, SABAH BY ACACIA FOREST
INDUSTRIES SDN BHD.

1ST REPORT OF 2024

NOVEMBER 2022 – FEBRUARY 2023	MARCH 2023 – JUNE 2023	JULY 2023 – OCTOBER 2023
✓		

EIA Approval Letter Ref. No. : JPAS/PP/15/600-1/01/3/29
Approval Date : 19th May 2010
Report Reference : CK/MO411/1187-1/24
Date of Report : 23rd May 2024



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ACACIA FOREST INDUSTRIES SDN BHD

ENVIRONMENTAL COMPLIANCE REPORT

1.0 INTRODUCTION

The Project site covers an area of 25,000 ha involving planting and replanting of Acacia mangium and Eucalyptus pellita trees within the gazetted land for SAFODA. The said area will be managed as a single Forest Management Unit (FMU) by the Project Proponent. The Project comprises of felling of commercial trees, site clearing and preparation for the replanting and planting on-site. The Project site is located approximately 4 km northeast of Pitas and situated at Bengkoka Peninsula, Pitas and is accessible via the Pitas-Kanibongan Highway.

1.1 Monitoring Information

Project Title	: Proposed Replanting and Planting of 25,000 Ha of Acacia Mangium and Eucalyptus Pellita at Bengkoka Peninsula, District of Pitas, Sabah by Acacia Forest Industries Sdn Bhd
AEC Reference	: JPAS/PP/15/600-1/01/3/29 dated 19 th May 2010
Monitoring Period	: November 2023 - February 2024
Date of Monitoring	: Compliance Audit : 13 th February 2024 Water Sampling : 13 th February 2024
EIA Consultant	: Kiiheng Environmental Consultants Sdn. Bhd.

1.2 Project Proponent Information

Project Proponent	: Acacia Forest Industries Sdn. Bhd.
Contact Person	: Ms Stanna Chang
Tel. No.	: 088 438 021
Contact No.	: 088 438 021
Fax No.	: 088 – 424 077
E-mail	: stanna@afisb.com.my
Environmental Officer	: Mr. Efron Amung
Contact No.	: 019 – 808 3862 (Mobile)
E-mail	: -

1.3 Post-EIA Consultant Information

Post-EIA Consultant	: Chemsain Konsultant Sdn. Bhd.
Tel. No.	: Office : 088 – 381 277 / 278
Fax No.	: 088 – 381 280
Contact Person	: Jessica Malagkas / Vianah Boman
Email	: jessica.malagkas@chemsain.com/vianah.boman@chemsain.com



1.4 Project Status

Percentage Completion :

Replanting Year	Planting plan (FMP) (Ha)	Actual Planted (Ha)	Percentage completion of FMP 2016-2025 (%)
2016	1,253	1,255	15.5
2017	1,417	1,416	33.0
2018	1,139	1,145	47.2
2019	762	778	56.8
2020	233	308	60.8
2021	69	104	61.9
2022	20	-	-
2023	500	-	-
2024	1,300	-	-
2025	1,400	-	-
Total	8,093	5,006	

Chronology of Events :

Table 1.0: Chronology of events

No.	Event	Date
1.0	Signing of AEC Ref. No.: JPAS/PP/15/600-1/01/3/29	19 th May 2010

2.0 LEGAL REQUIREMENT

The Project is classified as a prescribed activity under the **Second Schedule of the Environment Protection (Prescribed Activities) (Environmental Impact Assessment) Order 2005** under Item 2 (i) & (ii).

Environmental compliance auditing is carried out on quadrimester basis and reported in accordance with the Approval Conditions as specified in the **Syarat-Syarat Alam Sekitar [Seksyen 12(1) dan 20, Enakmen Perlindungan Alam Sekitar 2002]** of the EPD ref: JPAS/PP/15/600-1/01/3/29 dated 19th May 2010.

3.0 CHANGES TO PROJECT CONCEPT / ENVIRONMENT

3.1 Project Concept

No.	Item	Changes
1.	Project Component	Inclusion of <i>Eucalyptus pellita</i> in the tree planting program, approved by EPD (ref. JPAS/PP/15/600-1/01/3/18(44) dated 1 st July 2018 – Appendix E)
2.	Changes to Land Lot	Nil
3.	Land Area	Nil

3.2 Surrounding Environment

No.	Item	Changes
1.	Land Use	Nil
2.	River / Costal Morphology	Nil

4.0 MONITORING LOCATION

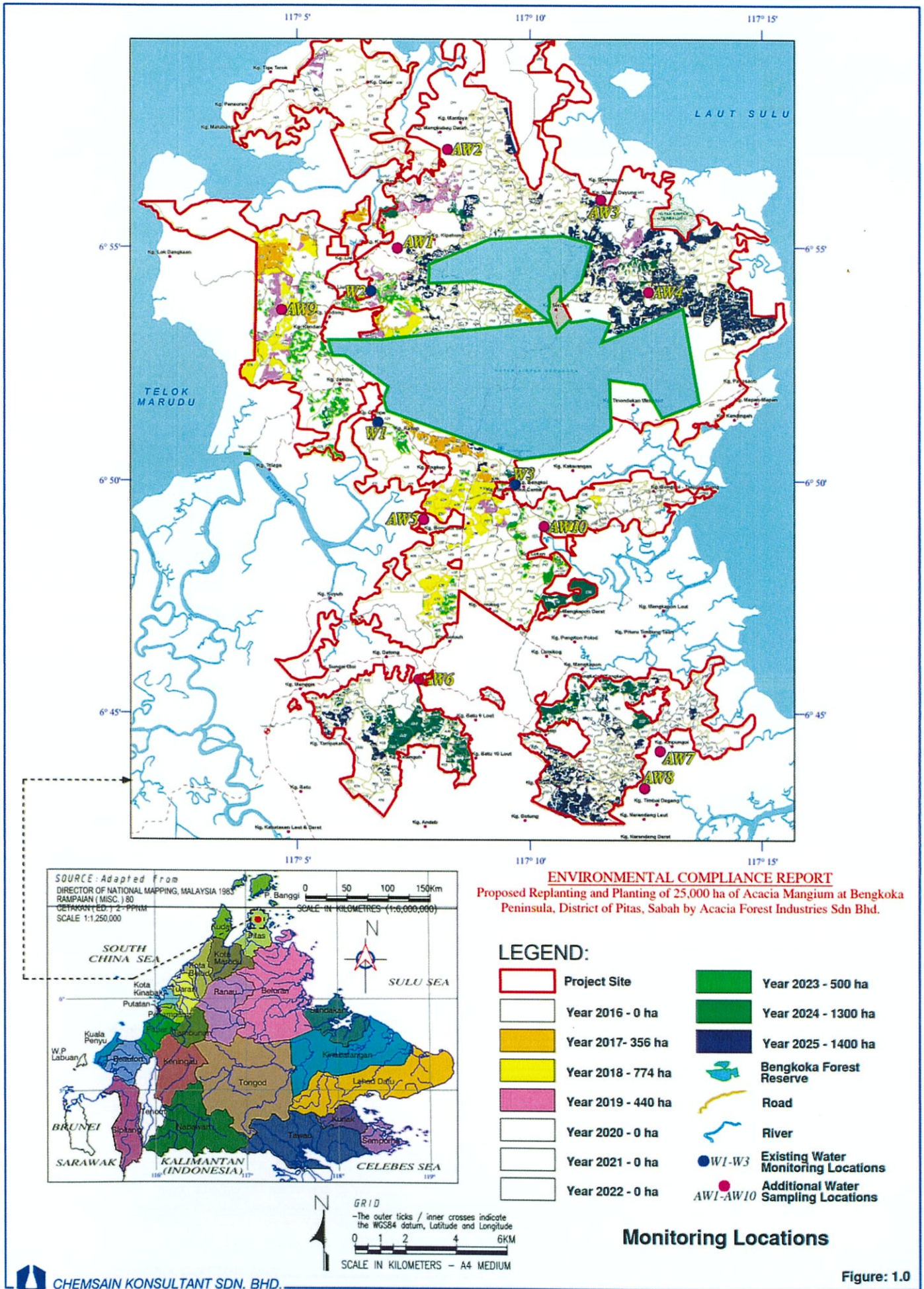
Designated sampling locations are shown in **Figure 1.0** with details tabulated in **Table 2.0**. **Table 3.0** details the proposed water quality monitoring programme.

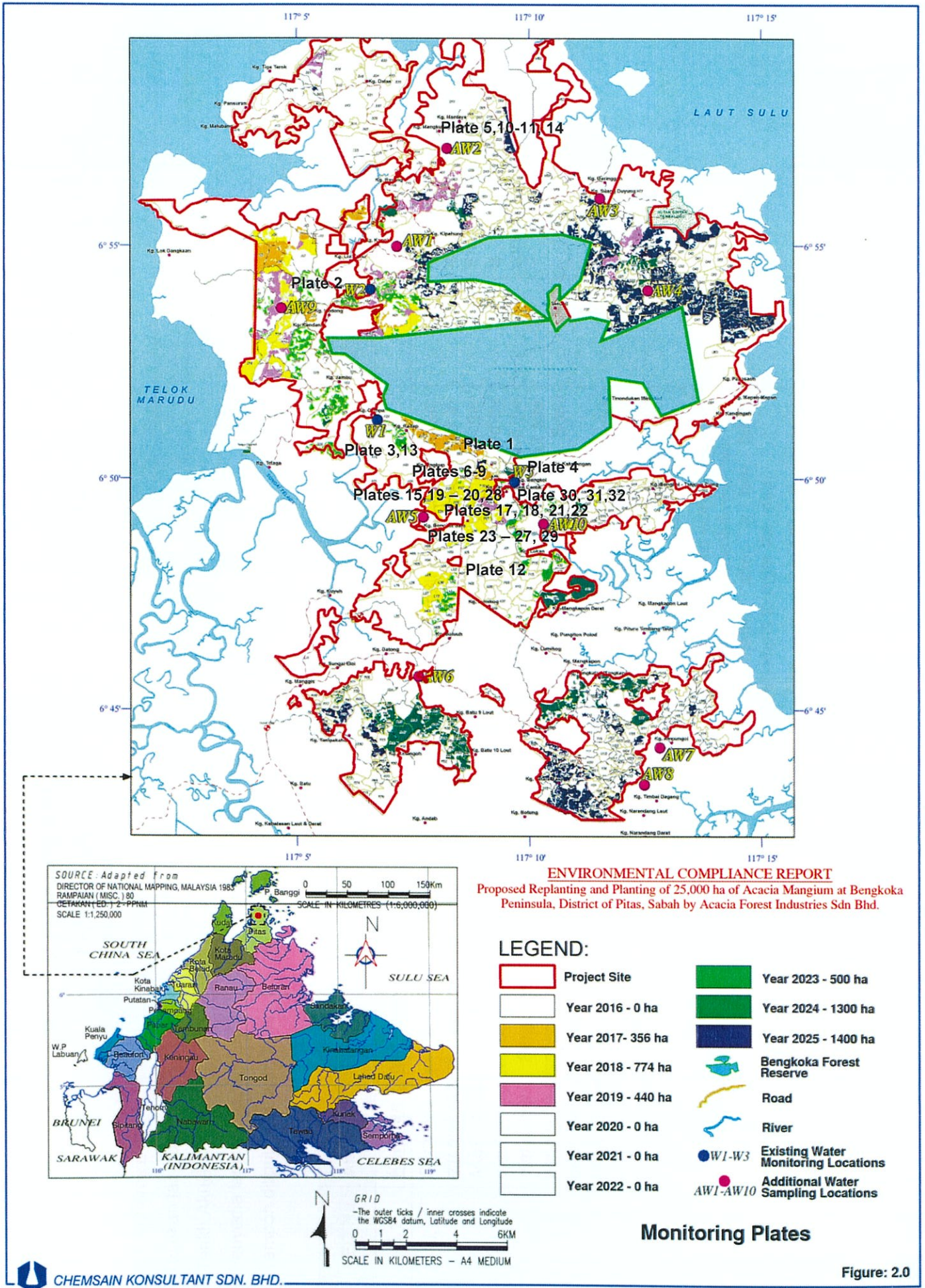
Table 2.0: Environmental Monitoring and Sampling Particulars

Monitoring Component	Key	GPS Coordinates (Datum: Timbalai)	Location Description
Surface Water Quality	W1	N 05° 51' 18.56" E 117° 06' 41.09"	Sg. Gumpa
	W2	N 05° 54' 12.40" E 117° 06' 36.87"	Tributary of Sg. Malubang
	W3	N 06° 50' 02.73" E 117° 09' 31.55"	Sg. Bongkol

Table 3.0: Proposed Water Quality Monitoring Programme

Harvesting Year	Monitoring Location	Parameter	Compliance Standard
2019 - 2029	W1, W2, W3, AW1, AW2, AW3, AW4, AW5, AW6, AW7, AW8, AW9 and AW10 (* sampled for active area)	pH, Turbidity, Total Suspended Solids (TSS), Oil & Grease, Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Ammoniacal-Nitrogen (NH ₃ -N)	Class IIB of National Water Quality Standard of Malaysia (NWQSM)





5.0 COMPLIANCE STATUS, OBSERVATION & RECOMMENDATION

Nama Projek : Replanting and Planting of 25,000 Ha Acacia mangium and Eucalyptus pellita at Bengkoka Peninsula, District of Pitas, Sabah

Nama Pemaju : Acacia Forest Industries Sdn Bhd

Rujukan fail jabatan ini : JPAS/PP/15/600-1/01/3/29

Tarikh Aкуjanji : 19 May 2010

Penyedia laporan pematuhan ini : Chemsain Konsultant Sdn. Bhd.

Tempoh diliputi oleh laporan ini : November 2023 - February 2024

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
5.1	<u>Kawalan Tapak Pembangunan</u>				
i.	Sempadan kawasan projek seperti yang ditunjukkan di "Figure 3.2 – Locality Map" dalam laporan EIA hendaklah disukat sebelum aktiviti projek dimulakan. Penyukatan berkenaan hendaklah disahkan oleh juruukur yang berdaftar di bawah Ordinan Juruukur 1960 (Surveyor Ordinance 1960).	Non-Compliance	<ul style="list-style-type: none"> According to the Project Proponent, the boundary survey presented in the previous EIA report was the gazetted plan that was provided by SAFODA but does not represent the actual boundary of the Project site for Acacia Forest Industries Sdn. Bhd. SAFODA had previously appointed Jurukur Dhiya Suria, to conduct the survey. However, it was strongly objected to by the local community. SAFODA had also worked with two political representatives as an alternative after a few failed attempts to enter the area. The current SAFODA surveyor is reportedly making significant progress with the ground survey of Phase II and Phase III. According to 	-	The status of the boundary survey is still work in progress by the SAFODA surveyor. As such, this is beyond AFI's responsibility, control and power.

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
ii.	Pelan Penyukatan sempadan projek berkenaan hendaklah dikemukakan kepada JPAS bersama-sama dengan bacaan koordinat latitud dan longitud sebelum aktiviti projek dimulakan.	Non-Compliance	Refer to the comments in AEC 5.1 (i).	-	-
iii	Sempadan kawasan projek yang telah disukat, hendaklah ditanda di lapangan serta dipasang dengan papan tanda di lokasi-lokasi yang mudah dilihat sebelum aktiviti projek dimulakan.	Comply	<ul style="list-style-type: none"> ▪ According to the Project Proponent, physical boundary markers will be installed in tandem with Project operation and progress. ▪ Signage sighted in place at the boundary with Gerak Saga Plantation. 	1	-
5.2	<u>Kualiti Sumber Air</u>				
i	Kaedah pempajuan ladang Acacia mangium and Eucalyptus pellita yang terkawal dan mesra alam serta dengan menyediakan alternatif sumber air kepada penduduk yang terjejas hendaklah diamalkan.	Comply	<ul style="list-style-type: none"> ▪ The Project Proponent practices eco-friendly approach towards planting and replanting activities. Rainwater is utilized as an alternative source of water supply. ▪ The Project Proponent ensures that water supply will be provided to the affected villagers (if any). 	-	-
ii	Penggunaan baja dan racun perosak (pesticide) secara terkawal hendaklah diamalkan. Pelupusan atau pembuangan bahan baja dan racun	Comply	<ul style="list-style-type: none"> ▪ Disposal of fertilizers or pesticides into any nearest natural waterways was not sighted during the site visit. 	6-9	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	perosak adalah <i>tidak dibenarkan</i> di dalam sungai atau alur air.		<ul style="list-style-type: none"> ▪ The Project Proponent assured that chemicals and fertilizers were only utilized as and when necessary. ▪ The agrochemical and fertilizer storage buildings are situated near the nursery. 		



AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date				
5.2.1.2	<p>Laporan pemantauan kualiti air juga hendaklah dikemukakan kepada JPAS bersama dengan laporan pematuhan tersebut berdasarkan 'Harvesting Programme Schedule' dan 'Proposed Quality Monitoring Programme' sebagaimana dinyatakan dalam Appendix 2.</p> <p>Lokasi dan parameter yang perlu dianalisa adalah seperti berikut:</p> <table border="1"> <thead> <tr> <th>Lokasi</th> <th>Unit/Parameter</th> </tr> </thead> <tbody> <tr> <td>Sebagaimana yang ditanda sebagai 'Existing Water Monitoring Locations' dan 'Additional Water Sampling Locations' di Figure 2.0, 'Harvestig Plan, Mitigation Measures & Monitoring Locations'.</td> <td>Turbidity, pH, Total Suspended Solids, Oil & Grease, Biochemical Oxygen Demand, Chemical Oxygen Demand, Ammoniacal Nitrogen</td> </tr> </tbody> </table>	Lokasi	Unit/Parameter	Sebagaimana yang ditanda sebagai 'Existing Water Monitoring Locations' dan 'Additional Water Sampling Locations' di Figure 2.0, 'Harvestig Plan, Mitigation Measures & Monitoring Locations'.	Turbidity, pH, Total Suspended Solids, Oil & Grease, Biochemical Oxygen Demand, Chemical Oxygen Demand, Ammoniacal Nitrogen	Comply	Surface water sampling was carried out at monitoring locations, W1 – W3, and AW2.	2 - 5	-
Lokasi	Unit/Parameter								
Sebagaimana yang ditanda sebagai 'Existing Water Monitoring Locations' dan 'Additional Water Sampling Locations' di Figure 2.0, 'Harvestig Plan, Mitigation Measures & Monitoring Locations'.	Turbidity, pH, Total Suspended Solids, Oil & Grease, Biochemical Oxygen Demand, Chemical Oxygen Demand, Ammoniacal Nitrogen								

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date						
5.3	Perlindungan Sungai										
i	<p>Simpanan sungai seperti berikut hendaklah diindungi, disukat dan ditanda di lapangan:</p> <table border="1"> <thead> <tr> <th>Lokasi</th> <th>Unit / Parameter</th> </tr> </thead> <tbody> <tr> <td>Sg. Gumpa, Sg. Malubang, Sg. Bongkol dan Sg. Kakarangan serta semua sungai lain yang mempunyai kelebaran 3 meter atau lebih</td> <td>Sekurang-kurangnya selebar 20 meter pada mendatar dari tebing sungai.</td> </tr> <tr> <td>Semua sungai yang mempunyai kelebaran kurang daripada 3 meter</td> <td>Sekurang-kurangnya selebar 5 meter pada jarak dari tebing sungai.</td> </tr> </tbody> </table>	Lokasi	Unit / Parameter	Sg. Gumpa, Sg. Malubang, Sg. Bongkol dan Sg. Kakarangan serta semua sungai lain yang mempunyai kelebaran 3 meter atau lebih	Sekurang-kurangnya selebar 20 meter pada mendatar dari tebing sungai.	Semua sungai yang mempunyai kelebaran kurang daripada 3 meter	Sekurang-kurangnya selebar 5 meter pada jarak dari tebing sungai.	Comply	<ul style="list-style-type: none"> The riparian reserve of Sungai Gumpa which was previously cleared by the external contractor appointed by the local authority to repair the collapsed bridge, sighted thriving with re-vegetation. As per the Project Proponent's SOP, demarcation of riparian reserves will be done 6 months prior to any commencement of operation relative to work site(s). Signage sighted in place for demarcation of water catchment areas, HCV areas and riparian reserves. 	10-13	-
Lokasi	Unit / Parameter										
Sg. Gumpa, Sg. Malubang, Sg. Bongkol dan Sg. Kakarangan serta semua sungai lain yang mempunyai kelebaran 3 meter atau lebih	Sekurang-kurangnya selebar 20 meter pada mendatar dari tebing sungai.										
Semua sungai yang mempunyai kelebaran kurang daripada 3 meter	Sekurang-kurangnya selebar 5 meter pada jarak dari tebing sungai.										
ii	Sempadan simpanan sungai hendaklah disukat sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita dimulakan di kawasan projek berkenaan dan hendaklah mencapai ketepatan pengukuran standard kelas ketiga.	Comply	According to the Project Proponent, survey work for the riparian reserves had been previously carried out.	-	-						

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
iii	Pelan penyukatan simpanan sungai dengan skala minima 1:25,000 hendaklah dikemukakan kepada JPAS bersama-sama dengan bacaan koordinat latitud dan longitud sebelum sebarang aktiviti pemajuan ladang Acacia mangium dimulakan di kawasan projek berkenaan.	Comply	According to the Project Proponent, the riparian reserves survey plan has been submitted to the EPD.	-	-
iv	Sempadan simpanan sungai yang telah disukat, hendaklah ditanda di lapangan dengan cat merah serta dipasang dengan papan tanda di lokasi-lokasi yang mudah dilihat sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pelita dimulakan di kawasan projek berkenaan.	Comply	Refer to the comments in AEC 5.3 (i).	-	-
v	Sebarang aktiviti pemajuan ladang Acacia mangium and Eucalyptus pelita dan penubangan kayu <u>tidak dibenarkan</u> di simpanan sungai ini.	Comply	<ul style="list-style-type: none"> ▪ Refer to the comments in AEC 5.3 (i). ▪ The Project Proponent has given assurance that riparian reserves shall be excluded from Project development. 	10 -13	-
vi	Sebarang pembinaan rumah pekerja, kem pekerja, bengkel, tandas atau struktur bangunan lain <u>tidak dibenarkan</u> di simpanan sungai ini.	Comply	Construction of structures within the riparian reserve was not sighted during the visit.	-	-
vii	Sebarang penyimpanan bahan minyak atau bahan toksik <u>tidak dibenarkan</u> di simpanan sungai ini.	Comply	<ul style="list-style-type: none"> ▪ Storage of oils and toxic material inside the riparian reserves was not sighted. ▪ The oily / toxic material storage shed is situated near the workshop 	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
viii	Sebarang bahan tanah lebihan, sisa tumbuhan, sisa pepejal, kumbahan, bahan minyak, kimia atau bahan-bahan toksik <u>tidak dibenarkan</u> dilupuskan di simpanan sungai, di dalam sungai atau alur air.		area and sited more than 50m away from nearest natural waterways. Disposal of overburden or any types of wastes (i.e. biomass, solid, sewage, oily / toxic material, etc.) into the riparian reserves or any nearest natural waterways was not sighted.	-	
5.4	<u>Hakisan Tanah dan Pemendapan Kelodak</u>				
5.4.1	<u>Larangan Aktiviti Pemajuan Ladang Acacia mangium and Eucalyptus pellita atau Pembersihan Kawasan</u>				
i.	Sebarang aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita atau aktiviti pembersihan kawasan <u>tidak dibenarkan</u> di kawasan berkecerunan 25 darjah atau lebih dengan keluasan 49 hektar dan kawasan perkampungan, sebagaimana ditunjukkan di "Figure 6.1" dalam laporan EIA tersebut.	Comply	According to the Project Proponent, no activities are conducted at high-risk areas (slopes with gradient $\geq 25^\circ$) as these areas are within Bengkoka Forest Reserve.	-	-
ii	Sempadan kawasan yang berkecerunan 25 darjah atau lebih dan kawasan berisiko tinggi serta kawasan perkampungan ini hendaklah ditanda di lapangan dengan cat merah serta dipasang dengan papan tanda sebelum aktiviti pembersihan kawasan dimulakan di kawasan projek berkenaan dan hendaklah mencapai ketepatan pengukuran standard kelas ketiga.	Comply	According to the Project Proponent, demarcation of high-risk area (slopes with gradient $\geq 25^\circ$), will be carried out 6 months prior to start of operation, where applicable.	-	-
iii	Pelan penyukatan kawasan yang berkecerunan 25 darjah atau lebih dan	Comply	Refer to the comment in AEC 5.4.1 (ii) .	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	kawasan berisiko tinggi serta kawasan perkampungan berkenaan hendaklah dikemukakan kepada JPAS bersama-sama dengan bacaan koordinat latitud dan longitud sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita atau aktiviti pembersihan kawasan dimulakan di kawasan projek berkenaan.				
5.4.2	<u>Pembinaan Jalan</u>				
i	Sistem perparitan hendaklah disediakan bagi mengalirkan air keluar dari struktur jalan dan dilencongkan ke kawasan yang mempunyai tumbuhan.	Comply	Roadside drainage in place along the internal access road, diverting surface run-off into the vegetated area. However, some areas sighted in need of maintenance. According to the Project Proponent, road maintenance will be carried out soon.	14	To carry out maintenance of roadside drainage along internal access road.
ii	Aktiviti pelupusan atau pemuangan bahan tanah lebihan (overburden) ke dalam sungai atau alur air <u>tidak dibenarkan</u> .	Comply	Disposal of overburden into nearest natural waterways was not sighted during the site visit.	-	-
5.4.3	<u>Pembinaan Rumah Pekerja. Kem Pekerja, Bengkel atau Tapak Semaian</u>				
i	Rumah pekerja, kem pekerja, bengkel atau tapak semaian hendaklah dibina dengan meminimalkan kerja-kerja tanah dan pembersihan kawasan.	Comply	<ul style="list-style-type: none"> ▪ Both the workers' quarters, workshop and nursery are fully established, and no new construction has been observed. ▪ The Project Proponent utilizes the existing workshop established by the previous company, Hijauan Bengkoka Sdn Bhd. 	15 - 20	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
ii	Sistem perparitan yang berkesan hendaklah disediakan bagi mengawal larian air permukaan dan air buangan dari kawasan rumah pekerja, kem pekerja, bengkel atau tapak semaian dan hendaklah dilencongkan ke kawasan yang mempunyai tumbuhan dan <u>tidak dibenarkan</u> dialir terus ke dalam sungai atau alur air.	Comply	<ul style="list-style-type: none"> ▪ Drainages provided at the workers' quarters sighted diverted into vegetated area. ▪ Runoff from the nursery is diverted into the sedimentation pond via earth and concrete drains. The Project Proponent has assured to ensure there will be no development activities along the earth drain towards the sedimentation pond to prevent erosion. Project site remains idle with no site operation during the audit visit. 	18 - 22	-
iii	Kedudukan rumah pekerja atau kem pekerja hendaklah terletak pada jarak mendatar tidak kurang 30 meter dari tebing sungai atau alur air.	Comply	Worker's quarters sited on-site are located more than 30m away from any nearest natural waterways as observed during the site visit.	15	-
iv	Kedudukan bengkel atau tapak semaian hendaklah terletak pada jarak mendatar tidak kurang 50 meter dari tebing sungai atau alur air.	Comply	Both the nursery and workshop sited onsite are located more than 50m away from any nearest natural waterways as observed during the site visit.	16 - 17	-
v	Semua rumah pekerja, kem pekerja, bengkel atau tapak semaian sedia ada yang tidak mematuhi peraturan-peraturan yang dinyatakan dalam syarat-syarat alam sekitar ini, hendaklah dipindah dan dikawal sebagaimana yang ditetapkan.	Comply	Siting for these facilities are in compliance with the AEC requirement.	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
5.4.4	Kawalan Larian Air Permukaan				
i	Sistem perparitan dan kolam perangkap mendap (sedimentation pond) hendaklah disediakan di lokasi yang strategik dalam kawasan tapak projek.	Comply	Surface run-off at the nursery is channelled into the sedimentation pond via earth and concrete drainage. However, some drain areas sighted with overgrown vegetation.	18, 21 - 22	To carry out housekeeping activities ie to remove overgrown vegetation to prevent clogging of drain
ii	Kolam perangkap mendap tersebut hendaklah diselenggarakan dengan mengeluarkan bahan sedimen sekurang-kurangnya satu (1) kali dalam sebulan.	Comply	According to the Project Proponent, this condition will be complied with as soon as operations resume.	21	Project Proponent is reminded to ensure maintenance of the sedimentation pond is done accordingly.
iii	Sebarang penyimpanan atau pelupusan bahan sedimen <u>tidak dibenarkan</u> di kawasan sungai atau simpanan sungai.	Comply	Disposal of sediment into any of the nearest natural waterways or riparian reserves was not sighted during the site visit.	-	-
iv	Sistem perparitan yang berkesan hendaklah dibina bagi mengawal larian air permukaan dari kawasan projek, terutamanya di sekitar kawasan rumah pekerja, kem pekerja, bengkel atau tapak semaian.	Comply	<ul style="list-style-type: none"> ▪ Drainages provided at the workers' quarters and nursery area were diverted towards the vegetated area. ▪ According to the Project Proponent, half cut drum is utilized as drip tray to contain oil during maintenance activity at the workshop. 	17, 20 - 22	-
v	Aliran parit tersebut hendaklah dilencongkan ke kolam perangkap mendap dan <u>tidak dibenarkan</u> dialir terus ke dalam sungai alur air.	Comply	Drainage within the nursery diverted into the sedimentation pond.	21 - 22	-
vi	Sebarang pembinaan sistem perparitan dan kolam perangkap mendap <u>tidak dibenarkan</u> di dalam alur air	Comply	Construction of surface runoff mitigation structures within any of the existing natural waterways and	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
vii	semulajadi, kawasan simpanan sungai atau di dalam sungai. Semua kawasan yang terdedah hendaklah dilindungi dan ditanam dengan tumbuhan tutup bumi untuk mengurangkan hakisan tanah.	Comply	riparian reserves was not sighted during the site visit. Exposed Project areas is planted with cover crops to reduce soil erosion.	-	-
5.5	<u>Pemajuan Ladang Acacia mangium and Eucalyptus pellita Secara Berfasa</u>				
i	Operasi pemajuan ladang Acacia mangium and Eucalyptus pellita hendaklah dilaksanakan secara berperingkat/berfasa dan terancang.	Not Applicable	The development for <i>Acacia mangium</i> and <i>Eucalyptus pellita</i> plantations was carried out in phases as per harvesting plan presented in Appendix D . The company is not conducting planting operations at the time of reporting.	-	-
ii	Pelan pengurusan operasi pemajuan ladang Acacia mangium and Eucalyptus pellita hendaklah disediakan dan dilaksanakan serta satu salinan pelan tersebut hendaklah dikemukakan kepada JPAS.	Not Applicable	The Operation Management Plan was presented in the EIA report. The company is not conducting planting operations at the time of reporting.	-	-
5.6	<u>Perlindungan Kawasan Sensitif</u>				
i	Zon penanaman sekurang-kurangnya selebar 50 meter hendaklah disediakan di sepanjang sempadan projek dengan Hutan Simpan Bengkoka dan Tambalugu (Kelas I), Hutan Simpan Semenanjung Bengkoka (Hutan Simpan Bakau Kelas V) dan Hutan Simpan Paitan (Kelas II). Sebarang aktiviti pemajuan ladang Acacia mangium and	Comply	According to the Project Proponent, the 50m wide buffer zone of Hutan Simpan Semenanjung Bengkoka and Hutan Simpan Bengkoka no longer applies since these forest reserves is now developed by other planters.	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	Eucalyptus pellita atau aktiviti pembersihan kawasan tidak dibenarkan di dalam kawasan zon penanaman ini sebagaimana yang dinyatakan di bawah perkara "2 (ii)" serta ditunjukkan di "Figure 6.1" dalam maklumat tambahan laporan EIA tersebut.				
ii	Sempadan kawasan zon penanaman ini hendaklah diindungi dan disukat sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita atau aktiviti pembersihan kawasan dimulakan di kawasan projek berkenaan dan hendaklah mencapai ketepatan pengukuran standar kelas ketiga.	Comply	The survey work for the buffer zone had been previously carried out by the Project Proponent.	-	-
iii	Pelan penyukatan kawasan-kawasan zon penanaman berkenaan hendaklah dikemukakan kepada JPAS bersama-sama dengan bacaan koordinat latitud dan longitud sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita atau aktiviti pembersihan kawasan dimulakan di kawasan projek berkenaan.	Comply	The survey map was submitted via the EIA report.	-	-
iv	Sempadan kawasan zon penanaman yang telah disukat, hendaklah ditanda di lapangan dengan cat merah serta dipasang dengan papan tanda di lokasi-loasi yang mudah dilihat sebelum aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita atau aktiviti	Comply	According to the Project Proponent, physical demarcation will be carried out in tandem with Project Progress.	-	

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	pembersihan kawasan dimulakan di kawasan projek berkenaan.				
5.7	Bahan Minyak dan Sisa Toksik				
i	Bahan minyak dan sisa toksik yang digunakan dalam aktiviti pemajuan ladang Acacia mangium and Eucalyptus pellita ini adalah tidak dibenarkan dilupuskan atau dibiarkan mengalir ke dalam parit, sungai atau alur air.	Comply	Disposal of oil and toxic material into the nearest natural waterways was not sighted.	-	-
ii	Bahan minyak dan sisa toksik hendaklah dikumpul dan disimpan dalam bekas yang kukuh dan tidak mudah bocor. Bekas-bekas penyimpanan tersebut hendaklah dilabel.	Comply	<ul style="list-style-type: none"> ▪ Agrochemicals, fertilizers, and scheduled waste sighted contained in proper storage containers as well as labelled accordingly. ▪ According to the Project Proponent, the disposal of scheduled wastes is handled by a licensed scheduled waste transporter (Lagenda Bumimas Sdn. Bhd.), as and when scheduled waste is generated by operations. ▪ Diesel supply sighted contained in skid tanks. 	6-9, 23, 26	-
iii	Kawasan penyimpanan bahan minyak dan sisa toksik tersebut hendaklah terlindung dari hujan dan hendaklah terletak pada jarak mendatar tidak kurang 50 meter dari tebing sungai atau alur air.	Comply	<ul style="list-style-type: none"> ▪ The agrochemical and fertilizer storage sheds are located at least 50m away from natural waterways and sheltered from the elements. ▪ Both the skid tanks and scheduled waste storage sheds located near the existing workshop, are sheltered, and located more than 50m away from nearest natural waterways. 	7-9, 23 & 26	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
iv	Kawasan penyimpanan bahan minyak dan sisa toksik hendaklah disediakan dengan sistem saliran perangkap minyak.	Comply	<ul style="list-style-type: none"> ▪ Both the skid tanks and scheduled waste storage sheds located near the existing workshop are equipped with a perimeter concrete containment bund. ▪ The skid tanks' shed is equipped with an oil trap. ▪ The scheduled waste storage shed is equipped with drainage connected to an oil trap. 	23 - 27	-
v	Bahan minyak dan sisa toksik tersebut hendaklah dilupuskan mengikut garis panduan, peraturan atau undang-undang kerajaan yang sedang berkuatkuasa.	Comply	Refer to the comment in AEC 5.7 (ii).	-	-
5.8	Bahan Sisa Pepejal dan Sisa Biomass				
i	Sebarang aktiviti pelupusan bahan sisa pepejal dan sisa biomass <u>tidak dibenarkan</u> ke dalam parit, alur air, di dalam sungai atau simpanan sungai.	Comply	Disposal of solid wastes and biomass within the riparian reserves or any nearest natural waterways was not sighted during the site visit.	-	-
ii	Kemudahan mengumpul dan mengutip bahan sisa pepejal dan sisa biomass hendaklah disediakan. Lokasi kawasan pengumpulan bahan sisa pepejal dan sisa biomass hendaklah dikaji agar tidak mendatangkan kesan negatif kepada penduduk sekitar.	Comply	<ul style="list-style-type: none"> ▪ Garbage bins were provided at the workers' quarters and workshop area. ▪ Recycle bins were provided at the workshop to facilitate solid waste segregation. 	28 - 30	-
iii	Semua kawasan pengumpulan bahan sisa pepejal dan sisa biomass hendaklah terletak pada jarak mendatar tidak	Comply	These bins are located more than 30m away from nearest natural waterways.	28 - 30	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	kurang 30 meter dari alur air atau tebing sungai.				
iv	Semua bahan sisa pepejal seperti botol, tin, plastik, dan besi hendaklah dikumpul secara berasingan dan dikitar semula.	Comply	Refer to the comments in AEC 5.8 (ii).	-	-
v	Sekiranya tiada kawasan pelupusan yang sesuai dalam kawasan projek, bahan sisa pepejal dan sisa biomas tersebut hendaklah dilupuskan di kawasan yang disediakan oleh pihak berkuasa tempatan.	Comply	Refer to the comments in AEC 5.8 (ii).	-	-
5.9	<u>Kawalan Kualiti Udara dan Kebakaran</u>				
i	Pembakaran terbuka adalah <u>tidak dibenarkan</u> .	Comply	The Project Proponent assured that no open burning conducted during Project development stage.	31-32	Project Proponent is reminded to adhere to "no-open burning" policy throughout project stage.
ii	Pelan pengurusan dan pencegahan kebakaran kawasan pematangan ladang <i>Acacia mangium</i> and <i>Eucalyptus pellita</i> hendaklah disediakan dan satu salinan pelan tersebut hendaklah dikemukakan kepada JPAS.	Comply	The Fire Prevention and Management Plan had been submitted to the EPD via the <i>November 2010 – February 2011 ECR</i> (Ref: Y1/2011).	-	-
5.9	<u>Penghentian Projek</u>				
i	Semua struktur binaan yang tidak digunakan hendaklah dibuka secara teratur apabila berlaku penghentian projek tersebut	Not Applicable	Not applicable in relation to current Project stage.	-	-
ii	Semua struktur binaan yang didapati tidak selamat atau yang tidak dapat dipastikan selamat, hendaklah dibuka.	Not Applicable	Refer to the comments in AEC 5.9 (i).	-	-

AEC No.	Approved Environmental Conditions	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
iii	<i>Semua tanah yang tercemar dengan bahan minyak dan bahan berbahaya hendaklah dikeluarkan dan dibersihkan.</i>	Not Applicable	Refer to the comments in AEC 5.9 (i).	-	-

6.0 CONCLUSION

6.1 Overall Compliance for November 2023 - February 2024

The Project (Proposed Replanting and Planting of 25, 000 Ha of Acacia mangium and Eucalyptus pellita at Bengkoka Peninsula, District of Pitas, Sabah by Acacia Forest Industries Sdn. Bhd.), generally complied with the EIA approval conditions, albeit with only **two (2) non-compliances** recorded.

Recommended mitigation measure(s) for following non-compliances as follows:

AEC No.	Recommendation
<u>Kawalan Tapak Pembangunan</u> 5.1 (i) & (ii)	The Project Proponent is advised to continue to consult with SAFODA, the responsible party, to close the prevailing boundary issue.

Other areas for improvement:

- i. To carry out maintenance of roadside drainage.
- ii. To remove overgrown vegetation inside the drain to prevent clogging, at the nursery area.



02 NOV 2024

PERAKUAN PAS

Dengan ini saya mengaku telah turut serta dalam odit yang dijalankan oleh perunding alam sekitar dan telah meneliti dan bersetuju dengan isi kandungan Laporan Pematuhan Alam Sekitar bagi projek ini.

Tandatangan : 
Nama : **KASHIM OTHMAN**
Jawatan : **Safety, Health, Environment
And Compliance Manager**
Tarikh : **12 JUN 2024**



Cop Rasmi syarikat

PERAKUAN PERUNDING ALAM SEKITAR

Dengan ini saya mengaku dan mengesahkan semua kenyataan dan butir-butir dalam Laporan Pematuhan Alam Sekitar yang dikemukakan adalah benar.

Tandatangan : 
Nama : **Jessica Malagkas**
Tarikh : **06 JUN 2024**
Cop Rasmi syarikat



APPENDIX A

Plates



Kawalan Tapak Pembangunan

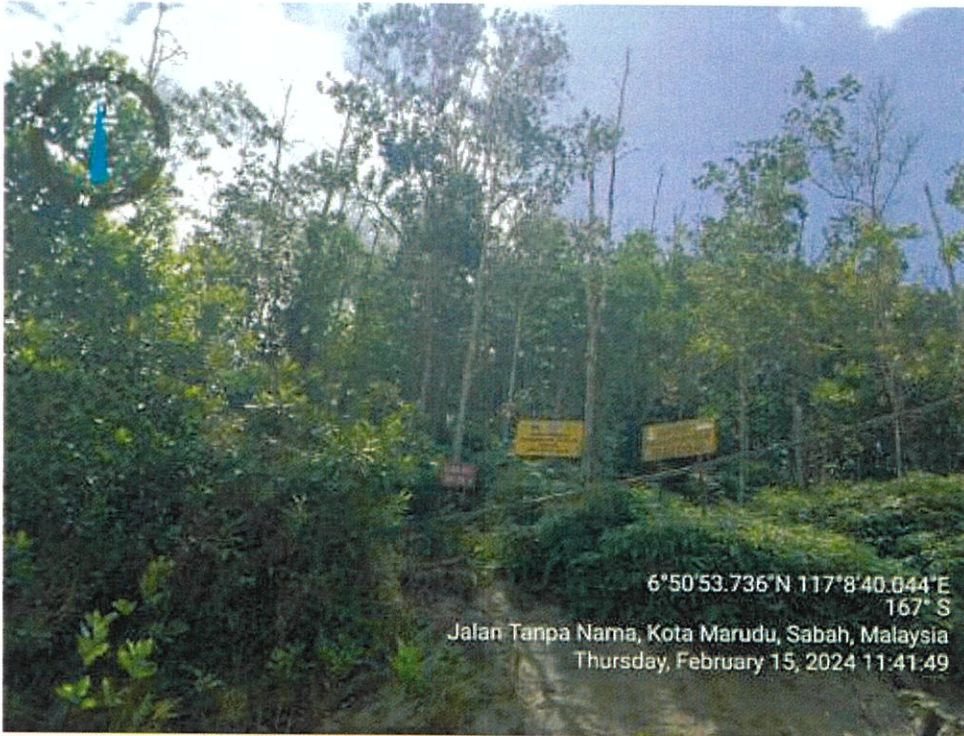


Plate 1

Project signage sighted in place at the boundary with Gerak Saga Plantation.

Kualiti Sumber Air

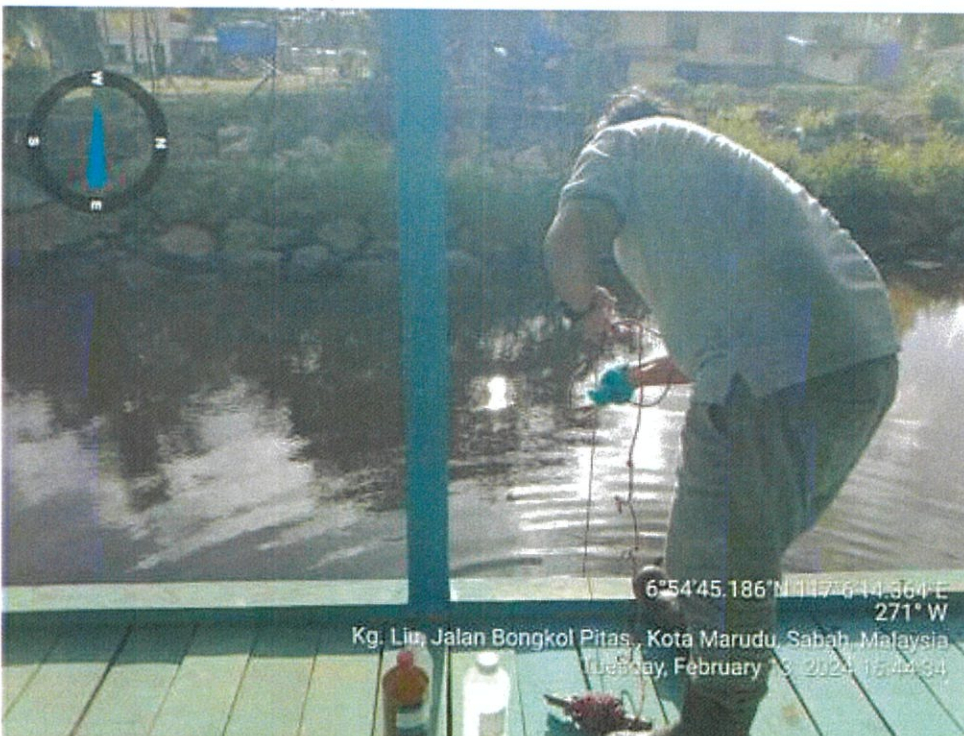


Plate 2

Surface water sampling at monitoring location, W2.

Kualiti Sumber Air

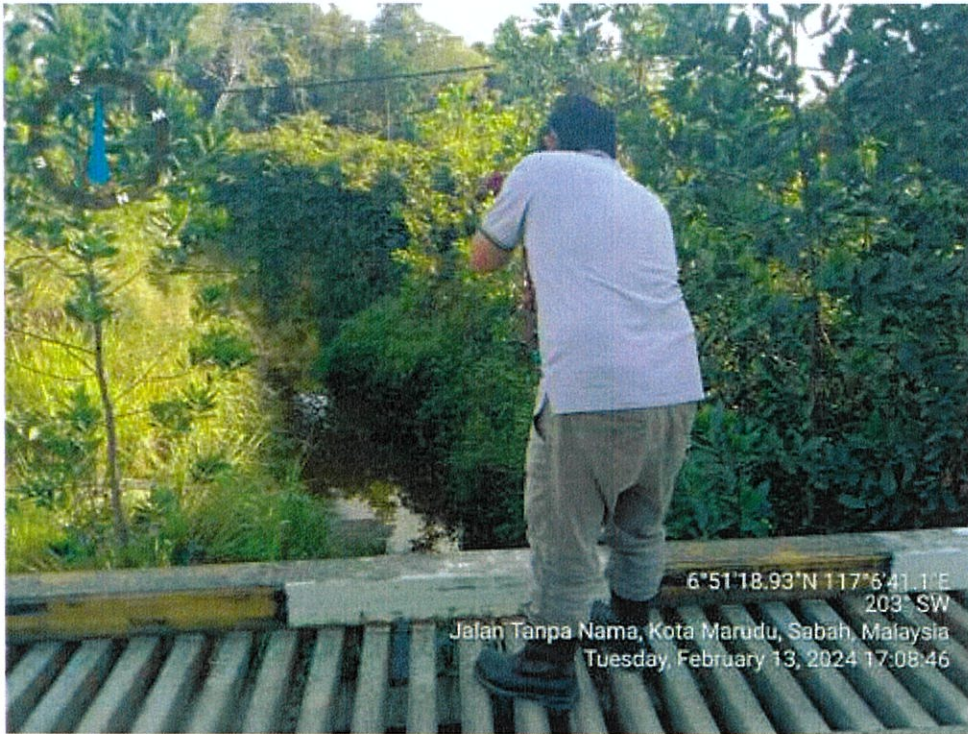


Plate 3

Surface water sampling at monitoring location, W1.



Plate 4

Surface water sampling at monitoring location, W3.



Kualiti Sumber Air

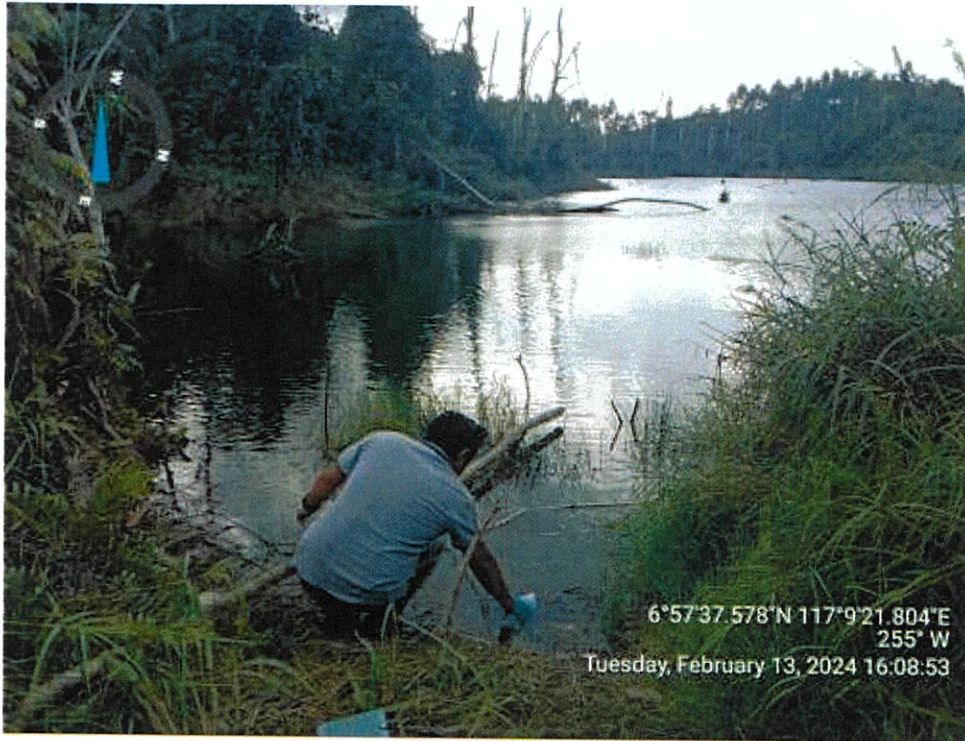


Plate 5

Surface water sampling at monitoring location, AW2.

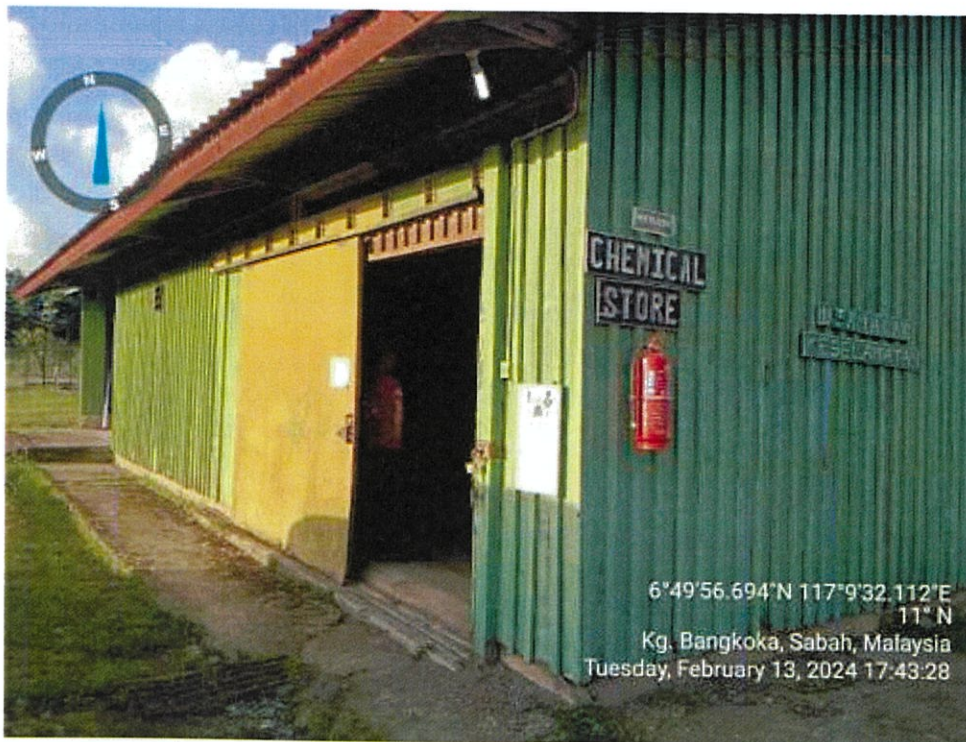


Plate 6

View of the Chemical Store located near the nursery.

This building is divided into compartments. It houses the storage compartment for fertilizers (Plate 9) and agrochemicals (Plate 10).

Kualiti Sumber Air



Plate 7

View showing the fertiliser storage area. This shed is sited more than 50m away from any waterways and equipped with rooftop



Plate 8

View showing the agrochemical storage area.

This shed is sited more than 50m away from any waterways and equipped with rooftop.

Kualiti Sumber Air

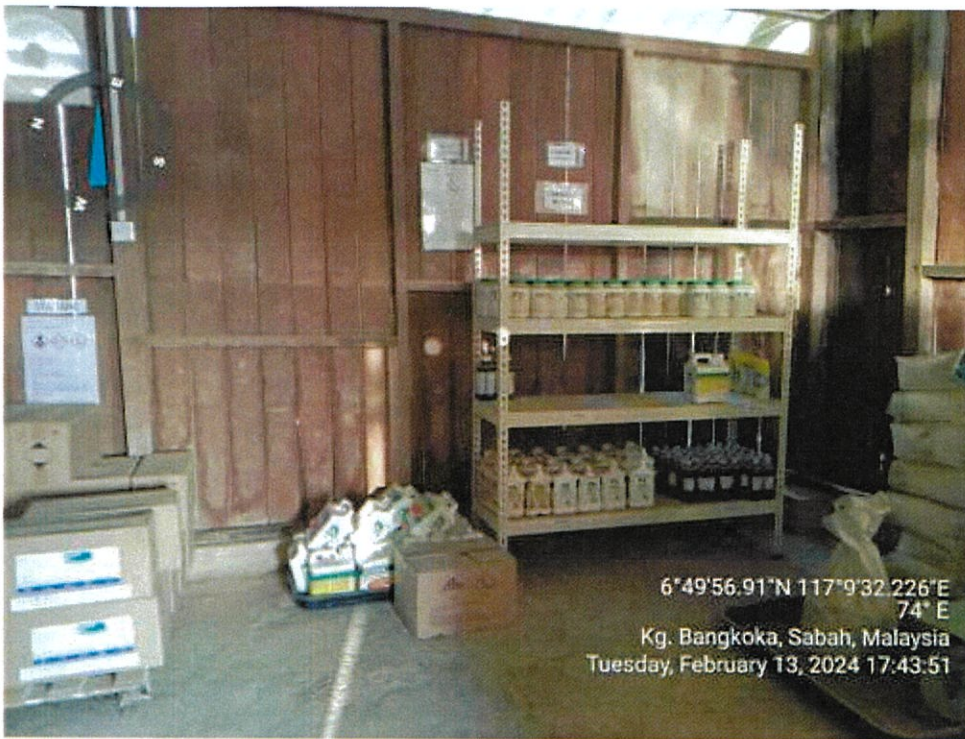


Plate 9

Another view showing the agrochemical storage area.

This shed is sited more than 50m away from any waterways and equipped with rooftop.

Perlindungan Sungai



Plate 10

Signage in place demarcating the High Conservation Value (HCV) area.

Perlindungan Sungai



Plate 11

Another signage sighted in place demarcating the High Conservation Value (HCV) area.



Plate 12

Signage in place demarcating the Water Catchment area.

Perlindungan Sungai**Plate 13**

Downstream view of Sg. Gumpa near W1, sighted undisturbed - the riparian reserve of Sungai Gumpa which was previously cleared by the external contractor appointed by the local authority to repair the collapsed bridge, sighted thriving with revegetation.

Pembinaan Jalan**Plate 14**

Roadside drainage in need of maintenance along the internal access road.

According to Project Proponent, road maintenance will be carried out soon.

Pembinaan Rumah Pekerja, Kem Pekerja, Bengkel atau Tapak Semaian

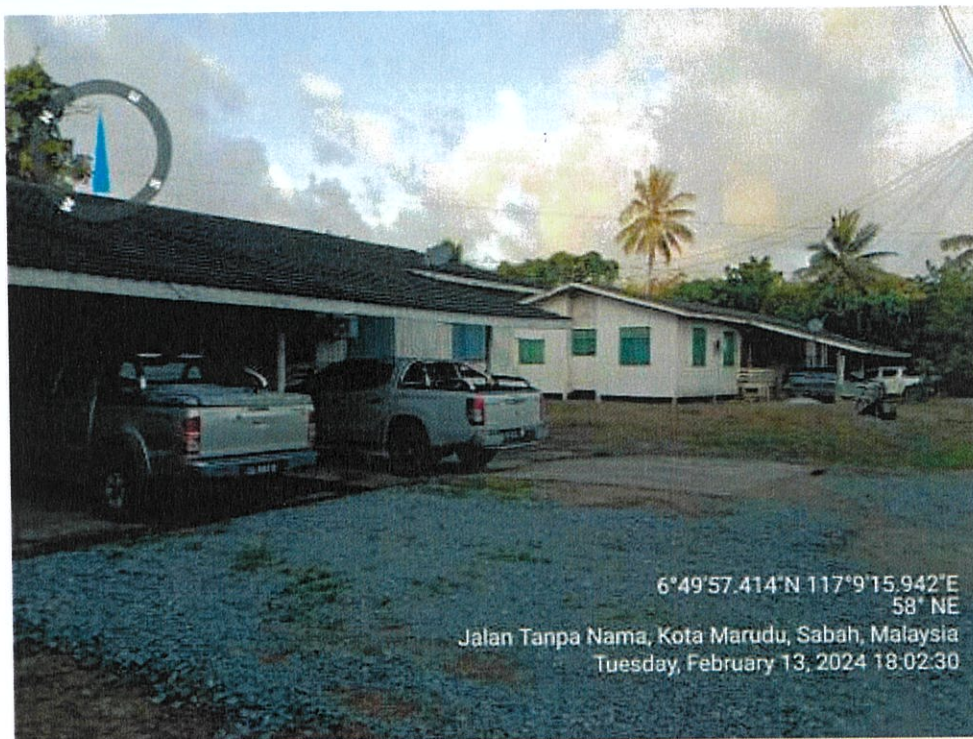


Plate 15

Workers' quarters are located more than 30m away from the nearest natural waterways.

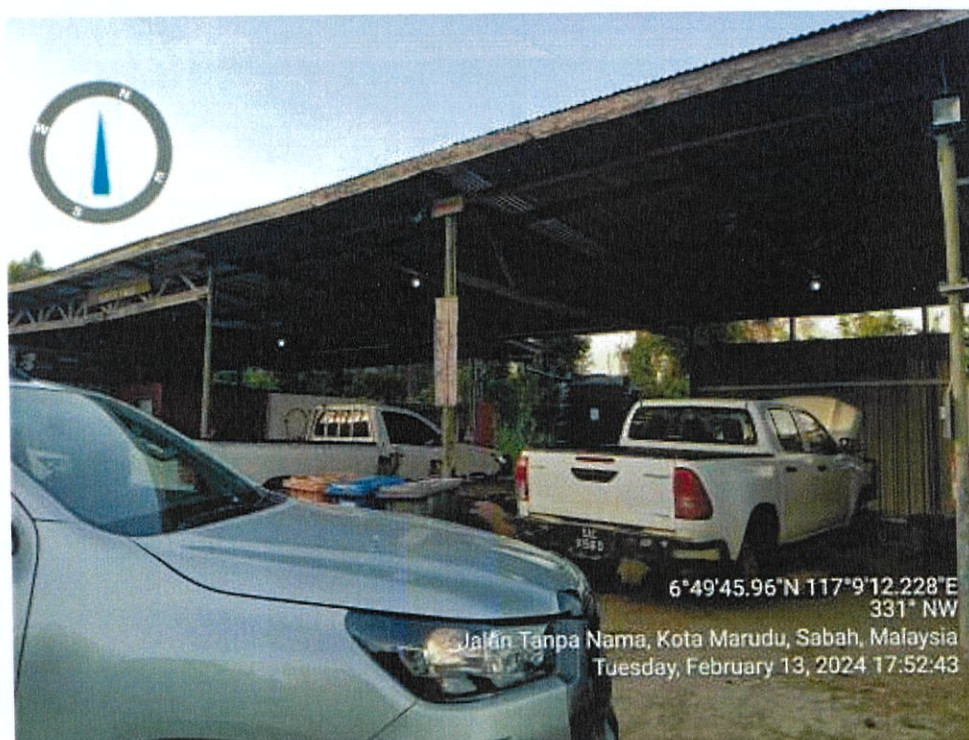


Plate 16

View showing the existing workshop sited on-site.

This facility is situated more than 50m away from any natural waterways.

Pembinaan Rumah Pekerja, Kem Pekerja, Bengkel atau Tapak Semaian



Plate 17

View towards the nursery situated near the project site office.

It is located more than 50m away from natural waterways.



Plate 18

The nursery is equipped with concrete drainage (red arrow) diverting flow into the nearby sedimentation pond.

Kawalan Larian Air Permukaan



Plate 19

The workers' quarters sighted equipped with perimeter concrete drainage diverting flow into the nearby main drain.



Plate 20

View of the main drainage at the workers' quarters diverting flow into vegetated areas.

Kawasan Larian Air Permukaan



Plate 21

Access way towards the sedimentation pond collecting runoff from the nursery - red arrow.

Project site remains idle (no site operation during the audit visit).

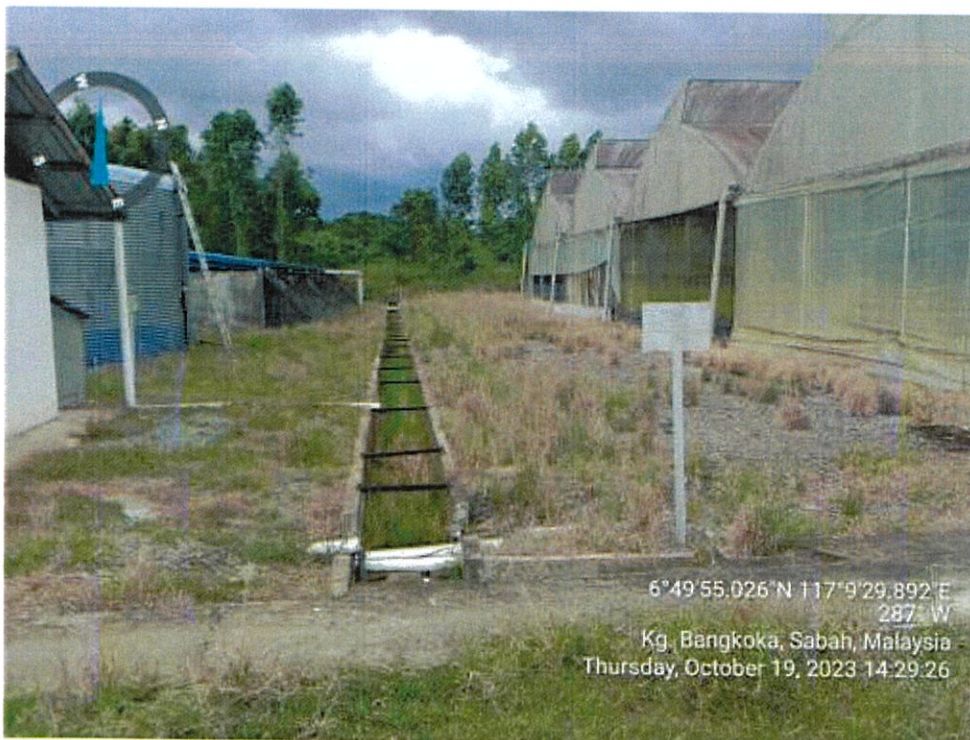


Plate 22

Runoff from the nursery is channelled into the sedimentation pond via concrete and earth drainage.

However, some of the drains sighted overgrown with vegetation.

The Project Proponent is advised to remove the vegetation inside the drain to prevent clogging.

Bahan Minyak dan Sisa Toksik



Plate 23

Scheduled waste storage shed is sited more than 50m away from any waterways.

It is sheltered from weather exposure, equipped with concretized floor and perimeter concrete containment bund.



Plate 24

There was no scheduled waste generated / sighted at the storage area during the visit.

Bahan Minyak dan Sisa Toksik



Plate 25

The scheduled waste shed is equipped with drainage connected to an oil trap (red arrow).

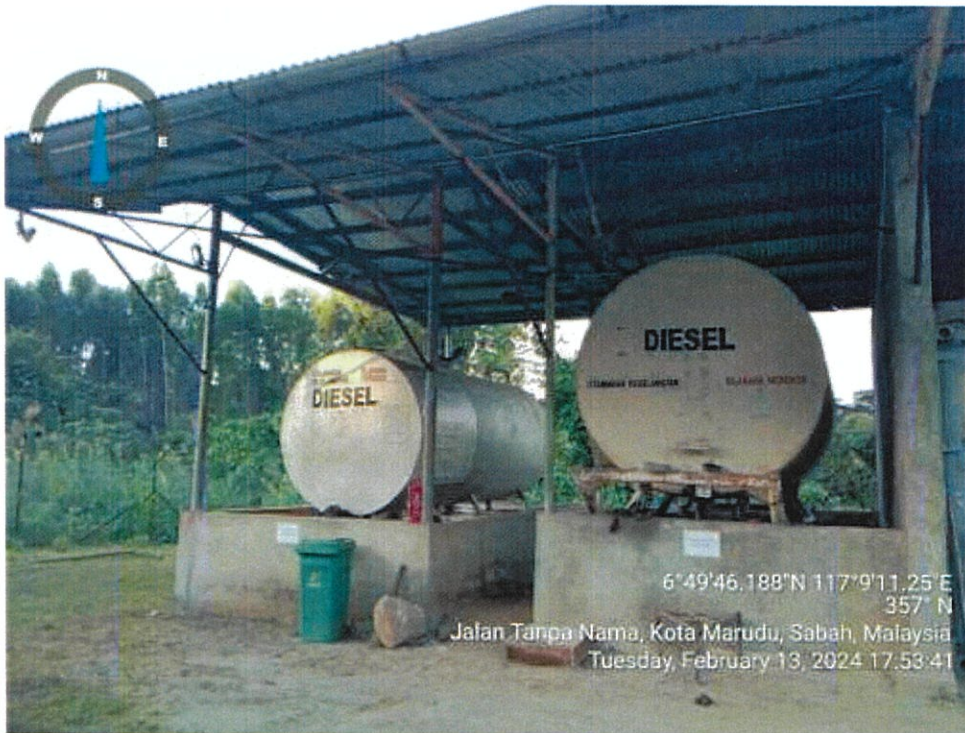


Plate 26

Diesel skid tanks storage shed is equipped with concretized floor, bunded and sheltered from weather exposure.

It is located more than 50m away from any nearest natural waterways.

Bahan Minyak dan Sisa Toksik



Plate 27

Oil trap connected to the diesel tanks' shed (red arrow).

Bahan Sisa Pepejal dan Sisa Biomas

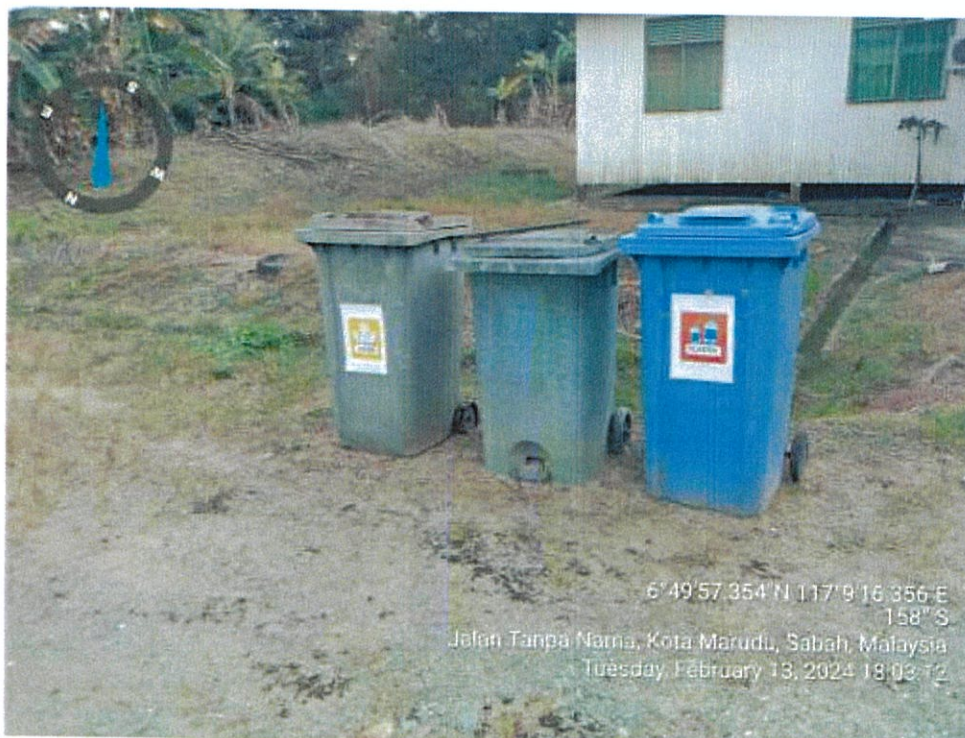


Plate 28

Garbage bins sighted provided at the workers' quarters to facilitate solid waste collection and disposal.

Bahan Sisa Pepejal dan Sisa Biomas

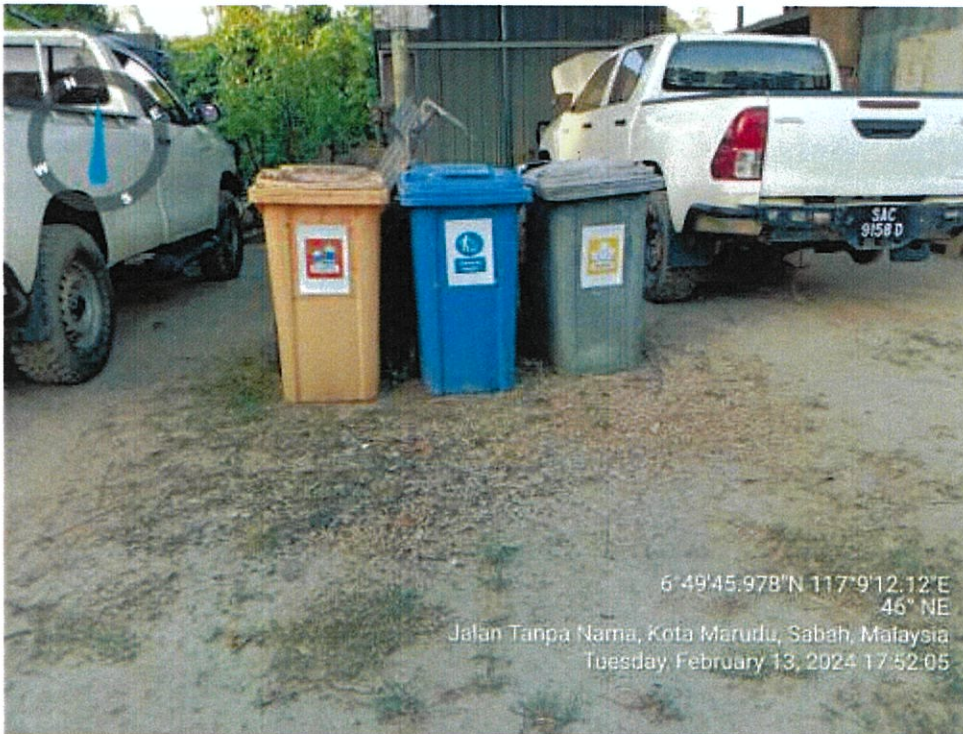


Plate 29

General and recycle waste bins sighted provided at the workshop area to facilitate solid waste segregation.



Plate 30

General waste bins sighted provided at the site office to facilitate solid waste segregation.

Kawalan Kualiti Udara Dan Kebakaran



Plate 31

Fire indicator signage sighted in place at the site office.

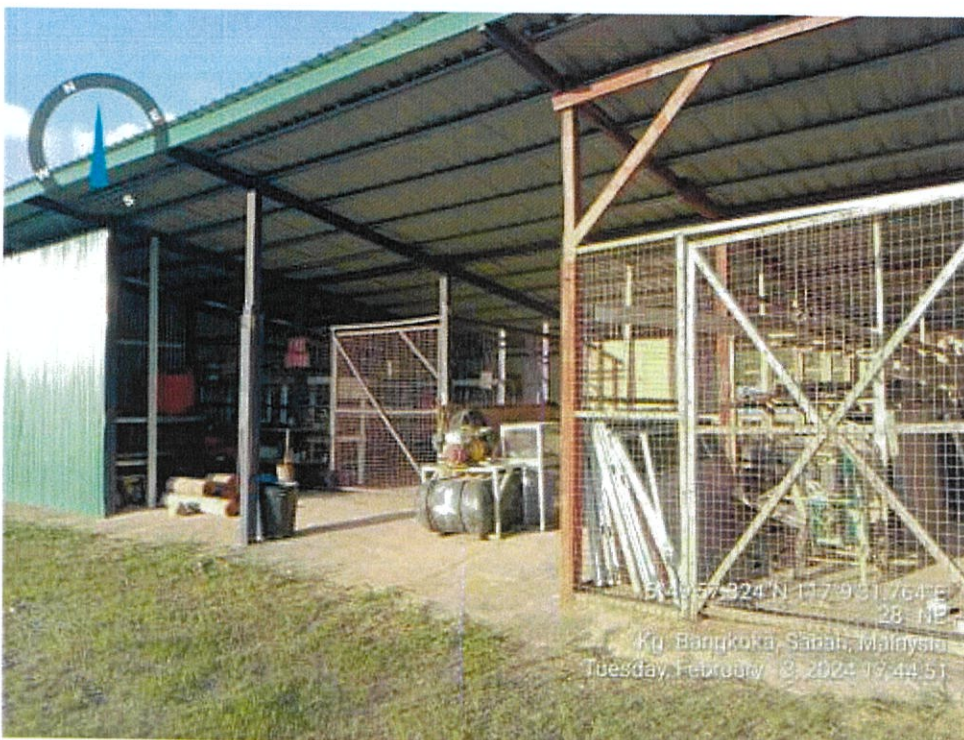


Plate 32

View showing the storage shed for fire - fighting equipment.

APPENDIX B

Environmental Monitoring Report



1.0 SURFACE WATER QUALITY

1.1 MONITORING LOCATION

Surface water sampling was scheduled to be carried out on the 13th February 2024 at three (3) existing monitoring locations, **W1**, **W2** and **W3** as well as additional water sampling at active Project area, **AW2**, as shown in **Figure 1.0**.

1.2 SURFACE WATER

Surface water monitoring was designed to determine the chemical and physical characteristic of water at the designated monitoring locations shown in **Figure 1.0**. Water samples were collected, preserved, and transported to the lab for analysis. Parameters of interest includes pH, Total Suspended Solids (TSS), Turbidity, Biochemical Oxygen Demand (BOD), Oil & Grease, Chemical Oxygen Demand (COD) and Ammoniacal-Nitrogen (as NH₃-N). Analytical methodologies for these parameters summarised in **Table 1.0**.

Table 1.0: Analytical methodologies

Parameter	Method Reference
pH value	APHA 4500-H ⁺ B, 2017
Total Suspended Solids (TSS)	APHA 2540 D, 2017
Turbidity	APHA 2130 B, 2017
Biochemical Oxygen Demand (BOD)	APHA 5210 B & 4500-O G, 2017
Oil & Grease	APHA 5520B B, 2017
Chemical Oxygen Demand	APHA 5220 C, 2017
Ammoniacal-Nitrogen (as NH ₃ -N)	APHA 4500-NH ₃ F, 2017

1.3 RESULTS

Surface water quality results are to be compared against **Class IIB of National Water Quality Standards for Malaysia (NWQSM)**.

Test reports are presented in **Appendix C** whilst **Charts 1.0 – 7.0** represent the historical surface water quality results for existing monitoring locations, **W1 – W3**, as well as the additional water sampling (**AW2**).

Table 2.0: Surface Water Quality Monitoring Results

Monitoring Location	W1	W2	W3	AW2	¹ LIMIT (Class IIB)
Monitoring Date Sampling Time	13/2/24 5.05PM	13/2/24 4.41 PM	13/2/24 5.24 PM	13/2/24 5.00 PM	
<i>Physical / Chemical Analysis</i>					
pH Value	7.4	7.4	7.3	7.5	6 – 9
Total Suspended Solids, mg/L	11.0	12.0	47.0	47.0	50
Turbidity, NTU	15	34	7	<5	50
Biochemical Oxygen Demand, mg/L	<1.0	<1.0	<1.0	<1.0	3
Oil & Grease, mg/L	<1.5	<1.5	<1.5	<1.5	40;N, 7000;N
Chemical Oxygen Demand, mg/L	16.4	<u>60.6</u>	<u>26.2</u>	<10.0	25
Ammoniacal Nitrogen, mg/L	<u>0.32</u>	0.12	0.24	<u>0.38</u>	0.3

Notes:

< > Below / above detection limit

(N) denotes Free from visible film sheen, discolouration and deposits

1.4 OBSERVATION

Surface water quality results at locations, **W1 – W3**, and **AW2**, complied with **Class IIB (NWQSM)**, exceptions are Chemical Oxygen Demand (**W2, W3**) and Ammoniacal Nitrogen (**W1, AW2**).

Exceedance in COD may have been caused by an increase in decayed organic matter inside the waterbody. The presence of decayed organic matter led to the increase of nitrate level sufficient to trigger attained COD levels. In addition, leaves and wooden debris which entered the waterbody (washed out by rain) could have also contributed to the COD result.

Ammonia is one of the several forms of nitrogen that exist in the aquatic environment. It enters the aquatic environment via direct means such as sewage from surrounding settlements, as well as excretion of nitrogenous wastes from animals, and indirect means such as nitrogen fixation, air deposition and runoff from agricultural lands. The elevated level of ammoniacal-nitrogen could likely be attributed by animal waste as well as sewage from nearby community settlements, which are washed into the river from rain events.

This is deemed beyond the Project Proponent's control.

¹ National Water Quality Standards for Malaysia, Malaysia Environmental Quality Report (DOE, 2006)

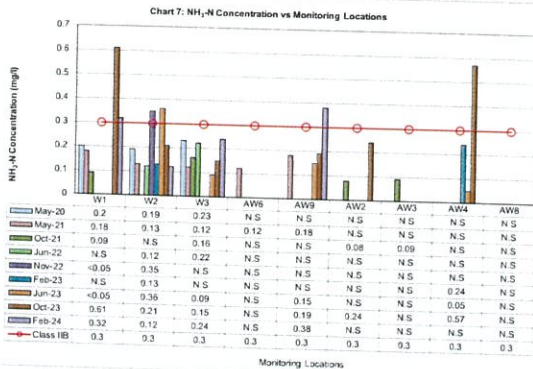
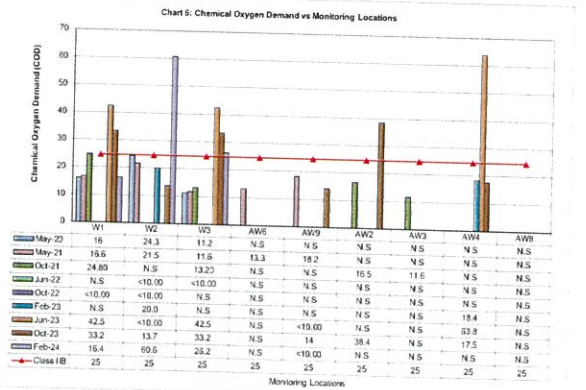
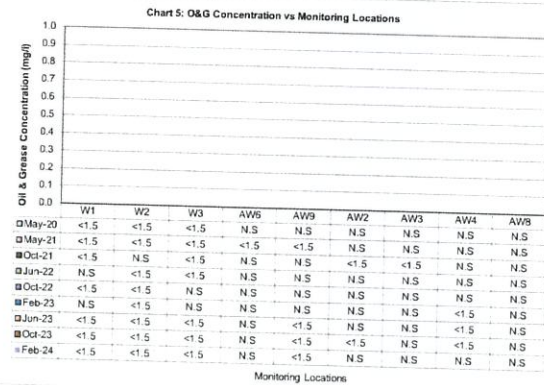
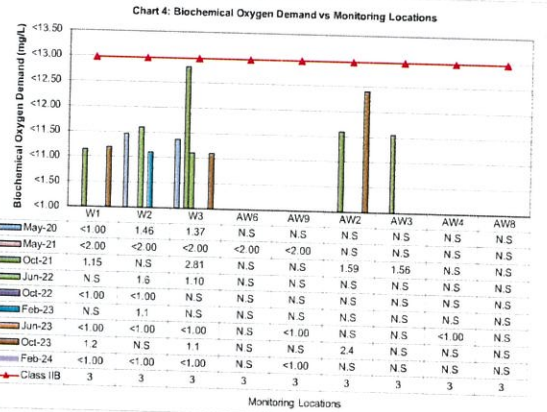
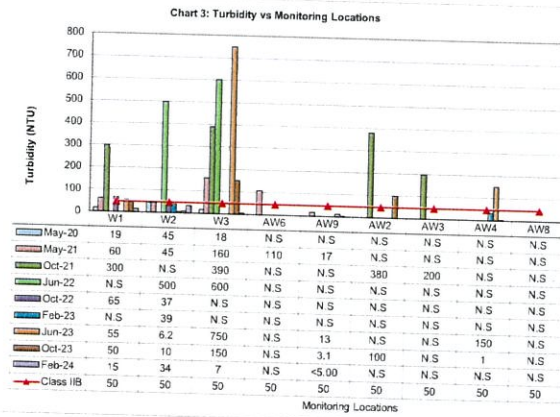
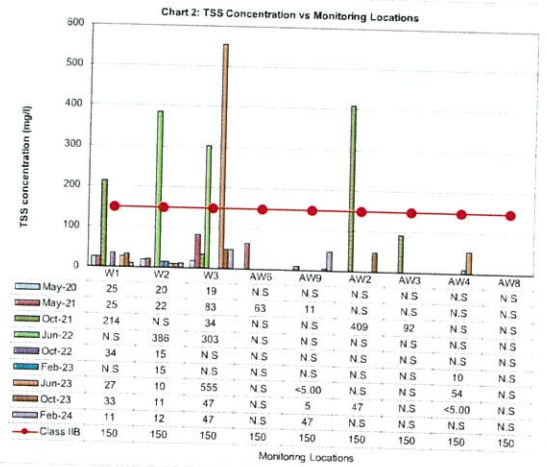
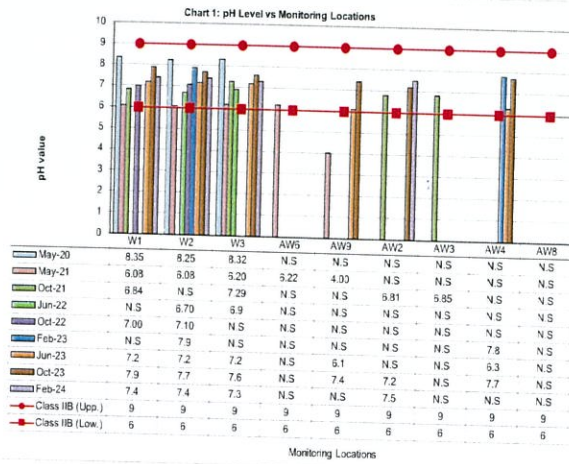


1.5 RECOMMENDED MITIGATION MEASURES

- Records to show regular maintenance of the earth drainage systems and sedimentation pond is advised to be kept/ provided.
- Any maintenance of vehicles and machinery or storage of oily waste and fuel must be carried out at more than 50 meters away from any source of water.
- Clearing should be done in phases to minimise soil erosion. Cleared and exposed areas not utilized shall be re-vegetated with fast growing cover crops.



HISTORICAL WATER QUALITY RESULTS



Notes:

(<>) below / above detection limit

(N.S) denotes No Sample Available



APPENDIX C

Surface Water Quality Test Report
National Water Quality Standards for Malaysia
(NWQSM)





Test Report

Not for Advertisement Purposes

Customer : Acacia Forest Industries Sdn Bhd
1st Floor, Wisma Perkasa, Jalan Gaya,
88100 Kota Kinabalu, Sabah

Lab No. : CK/CL405/0856/24
Type (No.) of Sample : River Water (4)
Date Received : 14th February 2024
Date of Report : 23rd February 2024
Project Code : CK/MO411/1187/24

Lab No.:	0856-1	0856-2	Test Method	* Standard Limit
Parameter(s)	W1 Date: 13/02/24 Time: 5.05 pm	W2 Date: 13/02/24 Time: 4.41 pm		
pH Value (in-situ / 13.02.2024)	7.4	7.4	APHA 4500-H* B, 2017	6-9
Turbidity, NTU	15	34	APHA 2130 B, 2017	50
Total Suspended Solids, mg/L	11.0	12.0	APHA 2540 D, 2017	50
Biochemical Oxygen Demand in 5 days @ 20°C, mg/L	<1.0	<1.0	APHA 5210 B & 4500-O G, 2017	3
Oil & Grease, mg/L	<1.5	<1.5	APHA 5520 B, 2017	40;N, 7,000;N
Chemical Oxygen Demand, mg/L	16.4	60.6	APHA 5220 C, 2017	25
Ammoniacal Nitrogen (as N), mg/L	0.32	0.12	APHA 4500-NH ₃ F, 2017	0.3

Cherif

Page 1 of 2

Note:

1. This Test Report shall not be reproduced, except in full, without the approval of the laboratory.
2. The above result(s) apply to the sample(s) as received.
3. The above result(s) relate only to the sample tested.





Test Report

Not for Advertisement Purposes

Lab No.: CK/CL405/0856/24

Lab No.:	0856-3	0856-4	Test Method	* Standard Limit
Parameter(s)	W3 Date: 13/02/24 Time: 5.24 pm	AW2 Date: 13/02/24 Time: 4.00 pm		
pH Value (in-situ / 13.02.2024)	7.3	7.5	APHA 4500-H* B, 2017	6-9
Turbidity, NTU	27	0.30	APHA 2130 B, 2017	50
Total Suspended Solids, mg/L	7.0	<5.0	APHA 2540 D, 2017	50
Biochemical Oxygen Demand in 5 days @ 20°C, mg/L	<1.0	<1.0	APHA 5210 B & 4500-O G, 2017	3
Oil & Grease, mg/L	<1.5	<1.5	APHA 5520 B, 2017	40;N, 7,000;N
Chemical Oxygen Demand, mg/L	26.2	<10.0	APHA 5220 C, 2017	25
Ammoniacal Nitrogen (as N), mg/L	0.24	0.38	APHA 4500-NH ₃ F, 2017	0.3

Date of commencement of BOD₅ analysis: 14th February 2024

* Class IIB of National Water Quality Standards for Malaysia.

Remark(s): Sample(s) was not properly preserved and results reported may be affected by deviation.

End

Gracy

 ChM. HO LI SIN
 B. Sc. (Hons)
 MMIC (5196/7297/16/19)
 SENIOR CHEMIST (130904-U)

Note:

- This Test Report shall not be reproduced, except in full, without the approval of the laboratory.
- The above result(s) apply to the sample(s) as received.
- The above result(s) relate only to the sample tested.



National Water Quality Standards for Malaysia

PARAMETER	UNIT	CLASS				
		I	IIA/IIIB	III*	IV	V
Al	mg/l	↑	-	(0.06)	0.5	↑
As	mg/l		0.05	0.4 (0.05)	0.1	
Ba	mg/l		1	-	-	
Cd	mg/l		0.01	0.01* (0.001)	0.01	
Cr (IV)	mg/l		0.05	1.4 (0.05)	0.1	
Cr (III)	mg/l		-	2.5	-	
Cu	mg/l		0.02	-	0.2	
Hardness	mg/l		250	-	-	
Ca	mg/l		-	-	-	
Mg	mg/l		-	-	-	
Na	mg/l		-	-	3 SAR	
K	mg/l		-	-	-	
Fe	mg/l		1	1	1 (Leaf) 5 (Others)	
Pb	mg/l		0.05	0.02* (0.01)	5	
Mn	mg/l		0.1	0.1	0.2	
Hg	mg/l	N	0.001	0.004 (0.0001)	0.002	A
Ni	mg/l	A	0.05	0.9*	0.2	B
Se	mg/l	T	0.01	0.25 (0.04)	0.02	C
Ag	mg/l	R	0.05	0.0002	-	D
Sn	mg/l	A	-	0.004	-	E
U	mg/l	L	-	-	-	A
Zn	mg/l	E	5	0.4*	2	B
B	mg/l	L	1	(3.4)	0.8	O
Cl	mg/l	E	200	-	80	V
Cl ₂	mg/l	L	-	(0.02)	-	↓
CN	mg/l	E	0.02	0.06 (0.02)	-	IV
F	mg/l	L	1.5	10	1	
NO ₂	mg/l	E	0.4	0.4 (0.03)	-	
NO ₃	mg/l	L	7	-	5	
P	mg/l	E	0.2	0.1	-	
Silica	mg/l	R	50	-	-	
SO ₄	mg/l	A	250	-	-	
S	mg/l	B	0.05	(0.001)	-	
CO ₂	mg/l	S	-	-	-	
Gross-α	Bq/l	E	0.1	-	-	
Gross-β	Bq/l	N	1	-	-	
Ra-226	Bq/l	T	< 0.1	-	-	
Sr-90	Bq/l	A	< 1	-	-	
CCE	μg/l	B	500	-	-	
MBAS/BAS	μg/l	S	500	5000 (200)	-	
O & G (Mineral)	μg/l	E	40; N	N	-	
O & G (Emulsified Edible)	μg/l	N	7000; N	N	-	
PCB	μg/l	T	0.1	6 (0.05)	-	
Phenol	μg/l	A	10	-	-	
Aldrin/Dieldrin	μg/l	B	0.02	0.2 (0.01)	-	
BHC	μg/l	S	2	9 (0.1)	-	
Chlordane	μg/l	E	0.08	2 (0.02)	-	
t-DDT	μg/l	L	0.1	(1)	-	
Endosulfan	μg/l	E	10	-	-	
Heptachlor/Epoxide	μg/l	N	0.05	0.9 (0.06)	-	
Lindane	μg/l	T	2	3 (0.4)	-	
2, 4-D	μg/l	A	70	450	-	
2,4, 5-T	μg/l	B	10	160	-	
2,4, 5-TP	μg/l	S	4	850	-	
Paraquat	μg/l	E	10	1800	-	

Notes :

* = At hardness 50 mg/l CaCO₃

= Maximum (unbracketed) and 24-hour average (bracketed) concentrations

N = Free from visible film sheen, discolouration and deposits

PARAMETER	UNIT	CLASS					
		I	IIA	IIB	III	IV	V
Ammoniacal Nitrogen	mg/l	0.1	0.3	0.3	0.9	2.7	> 2.7
Biochemical Oxygen Demand	mg/l	1	3	3	6	12	> 12
Chemical Oxygen Demand	mg/l	10	25	25	50	100	> 100
Dissolved Oxygen	mg/l	7	5 – 7	5 – 7	3 – 5	< 3	< 1
pH	-	6.5 – 8.5	6 – 9	6 – 9	5 – 9	5 – 9	-
Colour	TCU	15	150	150	-	-	-
Electrical Conductivity*	µS/cm	1000	1000	-	-	6000	-
Floatables	-	N	N	N	-	-	-
Odour	-	N	N	N	-	-	-
Salinity	%	0.5	1	-	-	2	-
Taste	-	N	N	N	-	-	-
Total Dissolved Solid	mg/l	500	1000	-	-	4000	-
Total Suspended Solid	mg/l	25	50	50	150	300	300
Temperature	°C	-	Normal + 2 °C	-	Normal + 2 °C	-	-
Turbidity	NTU	5	50	50	-	-	-
Faecal Coliform**	count/100 ml	10	100	400	5000 (20000) ^a	5000 (20000) ^a	-
Total Coliform	count/100 ml	100	5000	5000	50000	50000	> 50000

Notes :

N : No visible floatable materials or debris, no objectional odour or no objectional taste

* : Related parameters, only one recommended for use

** : Geometric mean

a : Maximum not to be exceeded

CLASS USES

Class I Conservation of natural environment.

Water Supply I – Practically no treatment necessary.

Fishery I – Very sensitive aquatic species.

Class IIA Water Supply II – Conventional treatment required.

Fishery II – Sensitive aquatic species.

Class IIB Recreational use with body contact.

Class III Water Supply III – Extensive treatment required.

Fishery III – Common, of economic value and tolerant species; livestock drinking.

Class IV Irrigation

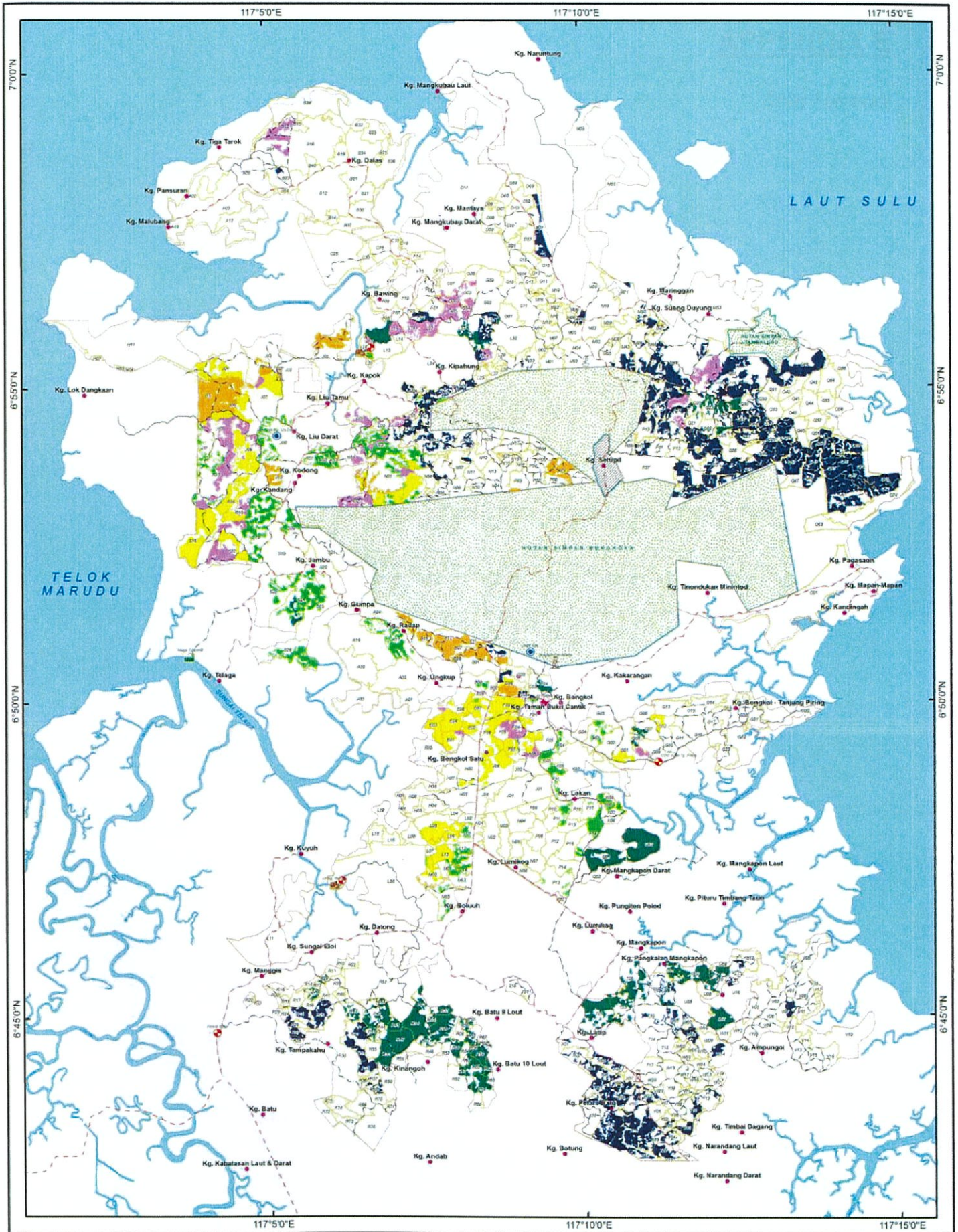
Class V None of the above.

Extracted from Malaysia Environmental Quality Report, 2006 (DOE).

APPENDIX D

Harvesting Plan





LEGEND:

- SAFODA Gazette Boundary
- Compartment
- River
- Water
- Forest Reserve
- Village Reserve

Harvesting Plan

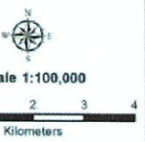
- | | | | |
|--|----------------|--|-----------------|
| | 2016 - 0 ha. | | 2021 - 0 ha. |
| | 2017 - 356 ha. | | 2022 - 0 ha. |
| | 2018 - 774 ha. | | 2023 - 500 ha. |
| | 2019 - 448 ha. | | 2024 - 1300 ha. |
| | 2020 - 0 ha. | | 2025 - 1400 ha. |

Road Network

- JKR Road
- Primary Road
- Secondary Road

Places

- Camp
- Depot
- Clinic
- Fire Tower
- Gate
- Lip Yards
- Office
- Villages



Harvesting Plan
2016 - 2025



Publication Date: 30/10/2019
Reference Map: FMP191030-001
Author: Hairynatali Genusa
Print Size: A3
Data Source: AFIS, SAFODA

APPENDIX E

Other Approvals





Ruj: AFI/PLN/EPD/17 (1)

Tarikh: 7hb Jun 2017

Pengarah,
Jabatan Perlindungan Alam Sekitar, Tingkat 1-3,
Wisma Budaya,
Jalan Tunku Abdul Rahman,
Beg Berkunci No.2078,
88999, Kota Kinabalu, Sabah

(U/P: Hj.Mohd Yusrie Abdullah)

Tuan,

FAX OUT
7/06/2017
238120 / 238390

MEMOHON KEBENARAN PERUBAHAN KONSEP PROJEK

Dengan segala hormatnya saya merujuk JPAS/PP/15/600-1/01/3/29 bertarikh 19 Mei 2010 dan JPAS/PP/15/600-1/01/3/18(29) bertarikh 25 Okt 2009.

2. Saya ingin merujuk kepada perkara 4.1 (iv) JPAS/PP/15/600-1/01/3/29 yang memerlukan pihak Acacia Forest Industries Sdn Bhd (AFI) memaklumkan dan meminta kebenaran bertulis daripada JPAS mengenai sebarang perubahan konsep projek tersebut seperti komponen projek, keluasan projek, lokasi dan kapasiti pengeluaran serta langkah-langkah mitigasi yang telah pun dipersetujui. Untuk pengetahuan tuan, operasi Hijauan Bengkoka Sdn Bhd (HBP) iaitu pemegang separuh syer AFI Sdn Bhd telah dihentikan pada bulan Oktober 2016 secara rasminya. HBP merupakan syarikat yang bertanggungjawab ke atas pengambilan kayu (dikenali sebagai Syarikat Mangium Plantations Sdn Bhd) melalui kelulusan surat kelulusan JPAS/PP/15/600-1/01/3/18(29). Semua pekerja dan aset HBP telah digabungkan dengan AFI berkuatkuasa daripada bulan Jun 2016. Oleh yang demikian terdapat beberapa isu yang telah berubah dan memerlukan kelulusan daripada Jabatan Perlindungan Alam Sekitar Sabah seperti berikut;

i. **Menambah spesies kayu tanaman**

Kelulusan telah diberikan kepada AFI untuk menanam *Acacia mangium* sebagai spesies tanaman. AFI ingin memohon supaya *Acacia spp* dan *Eucalyptus spp* ditambah sebagai spesies tanaman.

ii. **Laporan Pematuhan Alam Sekitar**

Operasi AFI Sdn Bhd dan HBP Sdn Bhd telah digabungkan dan operasi pengambilan kayu yang dinyatakan dalam kelulusan JPAS/PP/15/600-1/01/3/18(29) bertarikh 25 Okt 2009 telah siap dituai. Oleh yang demikian, kami memohon supaya hanya satu laporan pematuhan dihantar kepada Jabatan Perlindungan Alam Sekitar.

3. Pertimbangan daripada pihak tuan di dalam perkara ini amatlah kami perlukan dan kami dahului dengan ucapan ribuan terima kasih.

Sekian.




ACACIA FOREST INDUSTRIES SDN BHD
(Company No: 611076-A)

COP

sambungan m/s 2AFI/PLN/EPD/17 (1)- 7hb Jun 2017

b/p ACACIA FOREST INDUSTRIES SDN BHD


Junextopher J Maing
Pengurus
Bahagian Pengurusan Risiko



JABATAN PERLINDUNGAN ALAM SEKITAR
(ENVIRONMENT PROTECTION DEPARTMENT)
Tingkat 1 - 3, Wisma Budaya
Jalan Tunku Abdul Rahman
Beg Berkunci 2078
88999 Kota Kinabalu, Sabah, Malaysia
No. Tel. : 088-251290/251291/267572/268572
No. Faks : 088-238120/238390 E-mel : jpas@sabah.gov.my
<http://www.sabah.gov.my/jpas>
(Sila catatkan Rujukan fail Jabatan ini apabila menjawab)



RUJUKAN : JPAS/PP/15/600-1/01/3/18 (44)
TARIKH : 6 Julai 2018

Teloh difaks
pada 6 Julai 2018

Pengurus
Bahagian Pengurusan Risiko
Acacia Forest Industries Sdn Bhd
Metro Town, Block L, Unit No. 1
2nd Floor, Jalan Lintas
88300 KOTA KINABALU
(u.p.: Encik Junextopher J. Maing)



Faks: 088-434077

Tuan,

MEMOHON KEBENARAN PERUBAHAN KONSEP PROJEK

Dengan hormatnya, saya diarah merujuk kepada surat tuan rujukan AFI/PLN/EPD/17 (2) bertarikh 7 Jun 2017 mengenai perkara di atas.

2. Terlebih dahulu jabatan ini memohon maaf di atas kelewatan memberikan maklumbalas ke atas surat tuan di atas. Adalah dimaklumkan bahawa jabatan ini tiada halangan ke atas cadangan tuan untuk menambah spesies tanaman iaitu *Acacia* spesies dan *Eucalyptus* species dalam projek sedia ada. Turut dimaklumkan bahawa jabatan ini juga telah memaklumkan "lead auditor" ASI mengenai dengan perkara di atas pada April 2018.

3. Bagi perkara melibatkan keperluan pengemukaan laporan pematuhan syarat alam sekitar, pada dasarnya pengemukaan satu laporan pematuhan boleh dilaksanakan ke atas projek yang digabungkan atau telah selesai. Sehubungan dengan itu, jabatan meminta pihak tuan agar mengemukakan surat permohonan melalui perunding yang dilantik dengan memberikan latarbelakang dan status terkini di lapangan, untuk pertimbangan jabatan ini.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH"

Saya yang menurut perintah,

(DAISY ALOYSIUS)
b.p. Pengarah