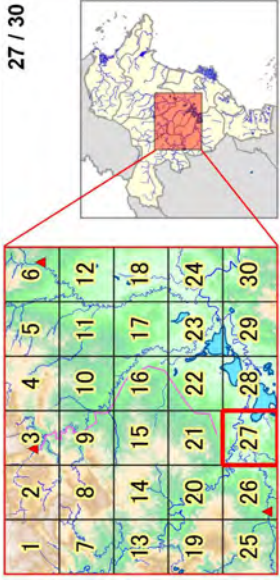
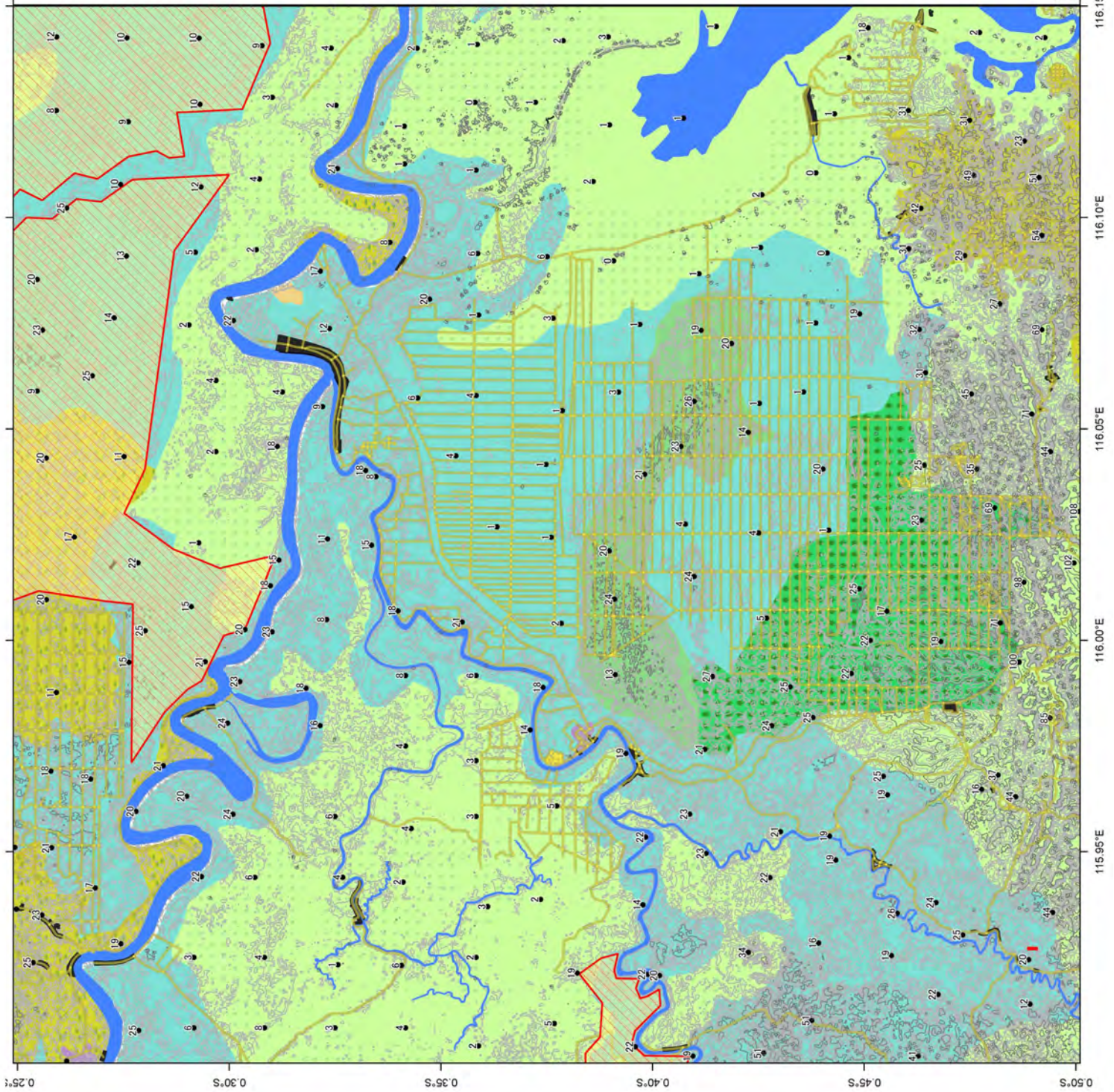


APPENDIX II-III: KALIMANTAN EAST PROVINCE (BWS KALIMANTAN III)

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LEGEND

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 - Road
 - River Line
 - Kecamatan Boundary
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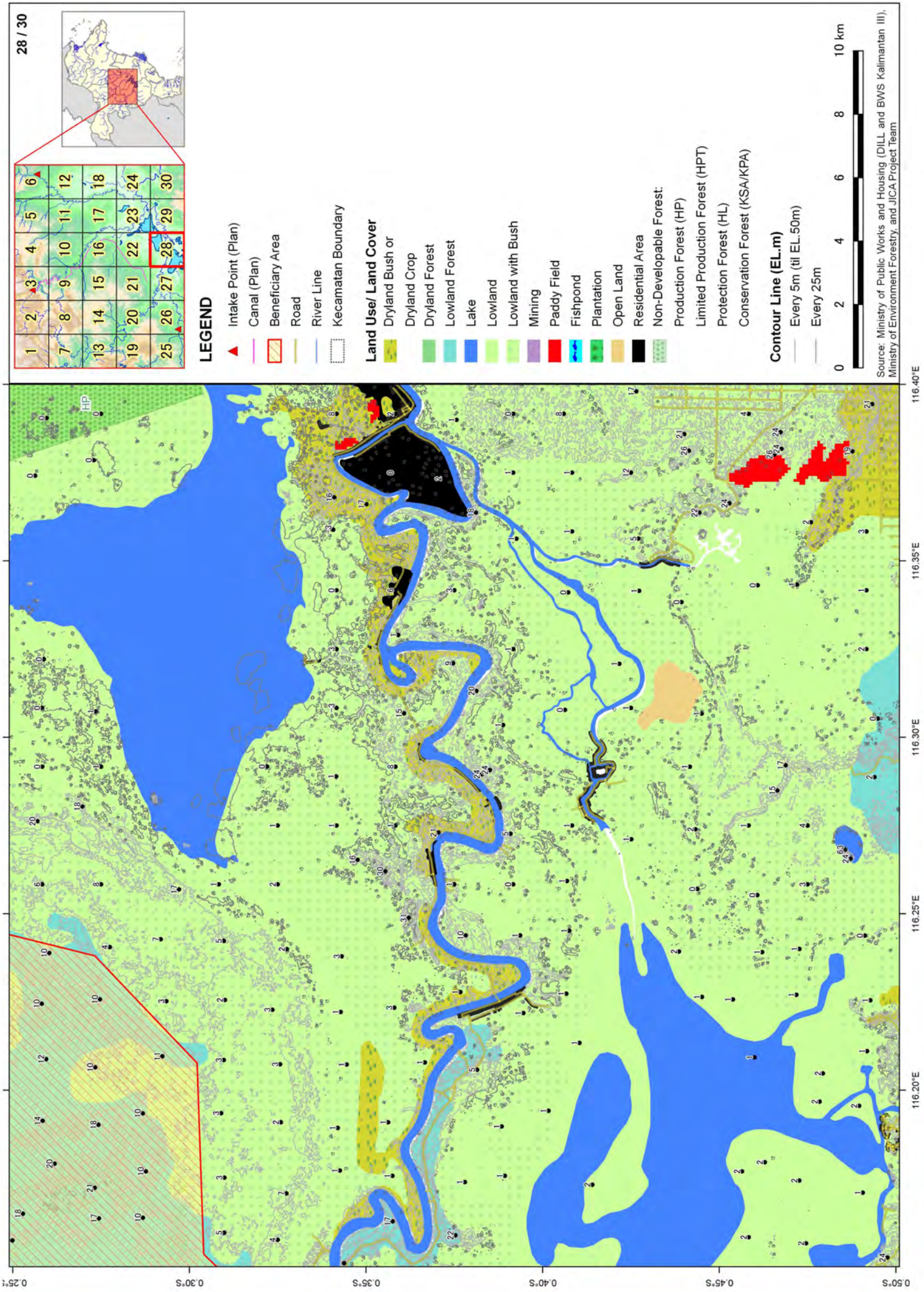
Contour Line (EL.m)

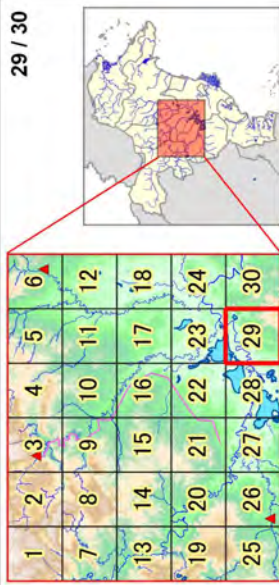
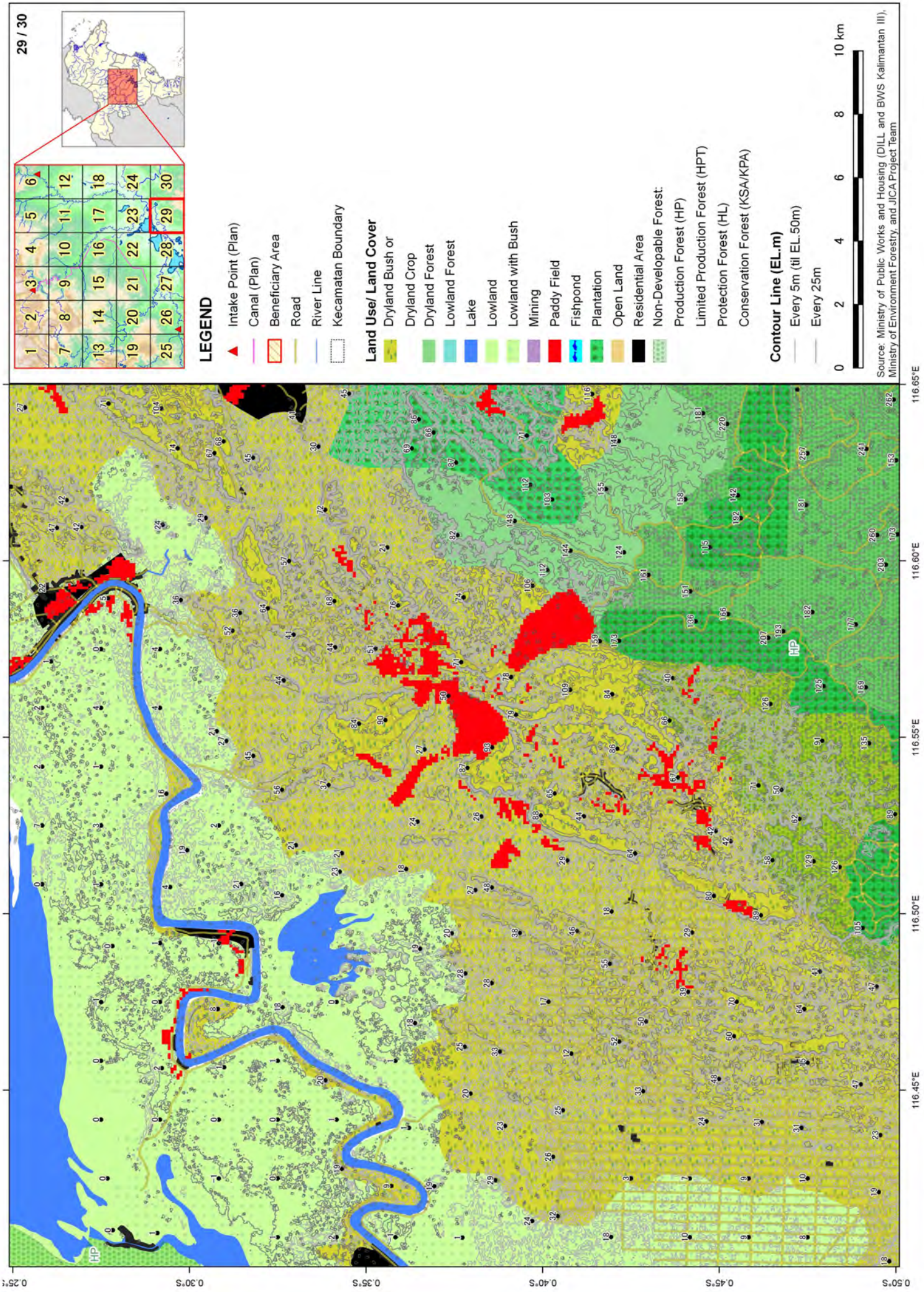
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- Every 25m



Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III),
Ministry of Environment Forestry, and JICA Project team

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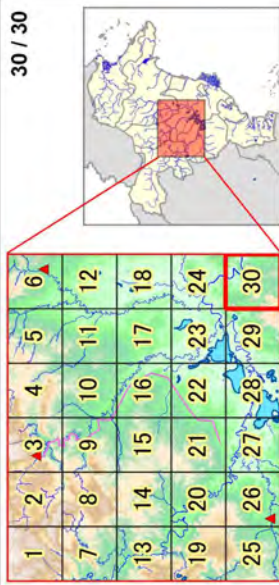
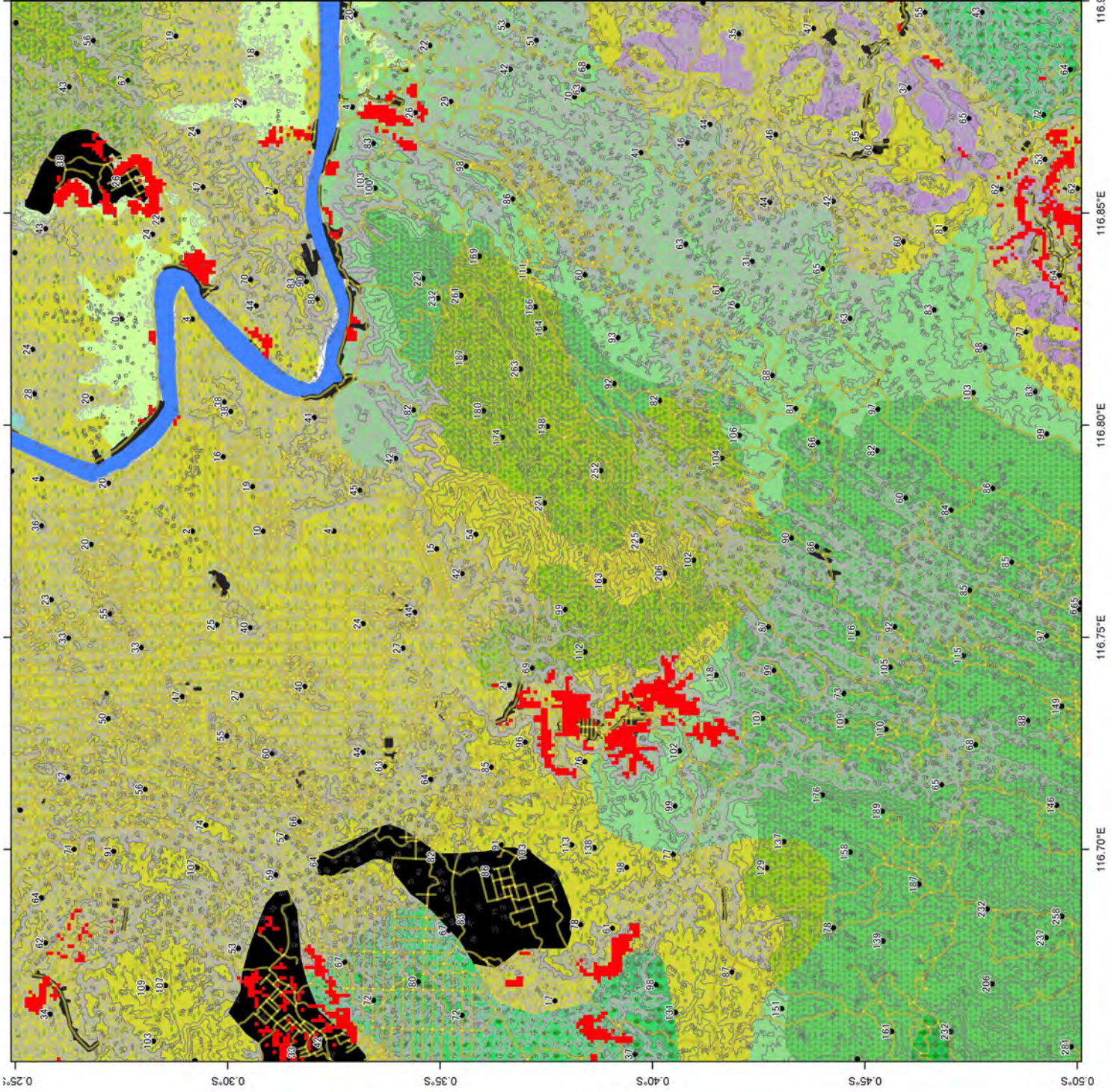
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- Every 5m (til EL.50m)
- Every 25m



Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III),
Ministry of Environment Forestry, and JICA Project team



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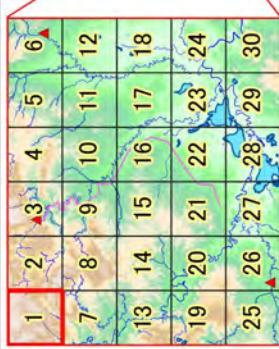
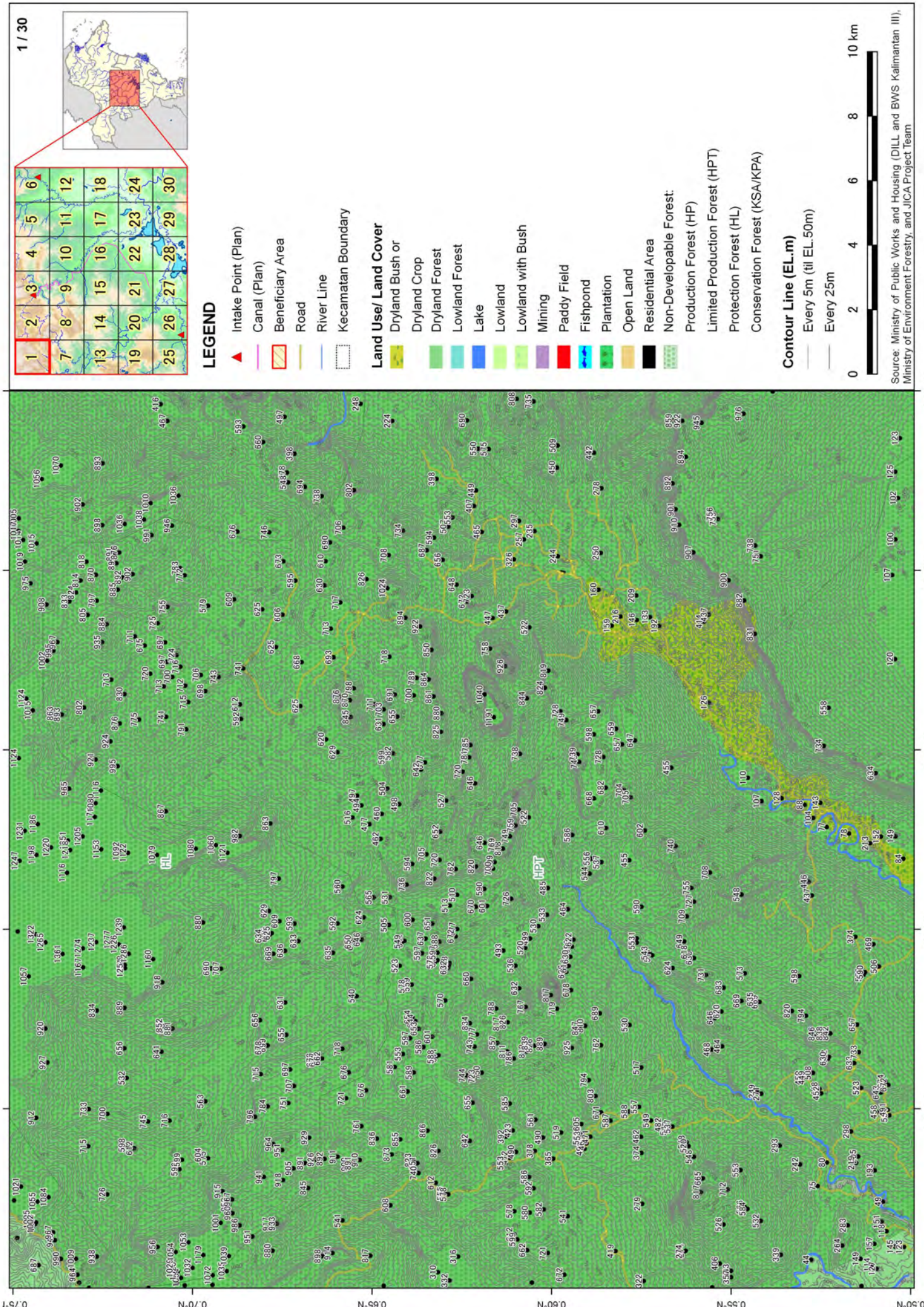
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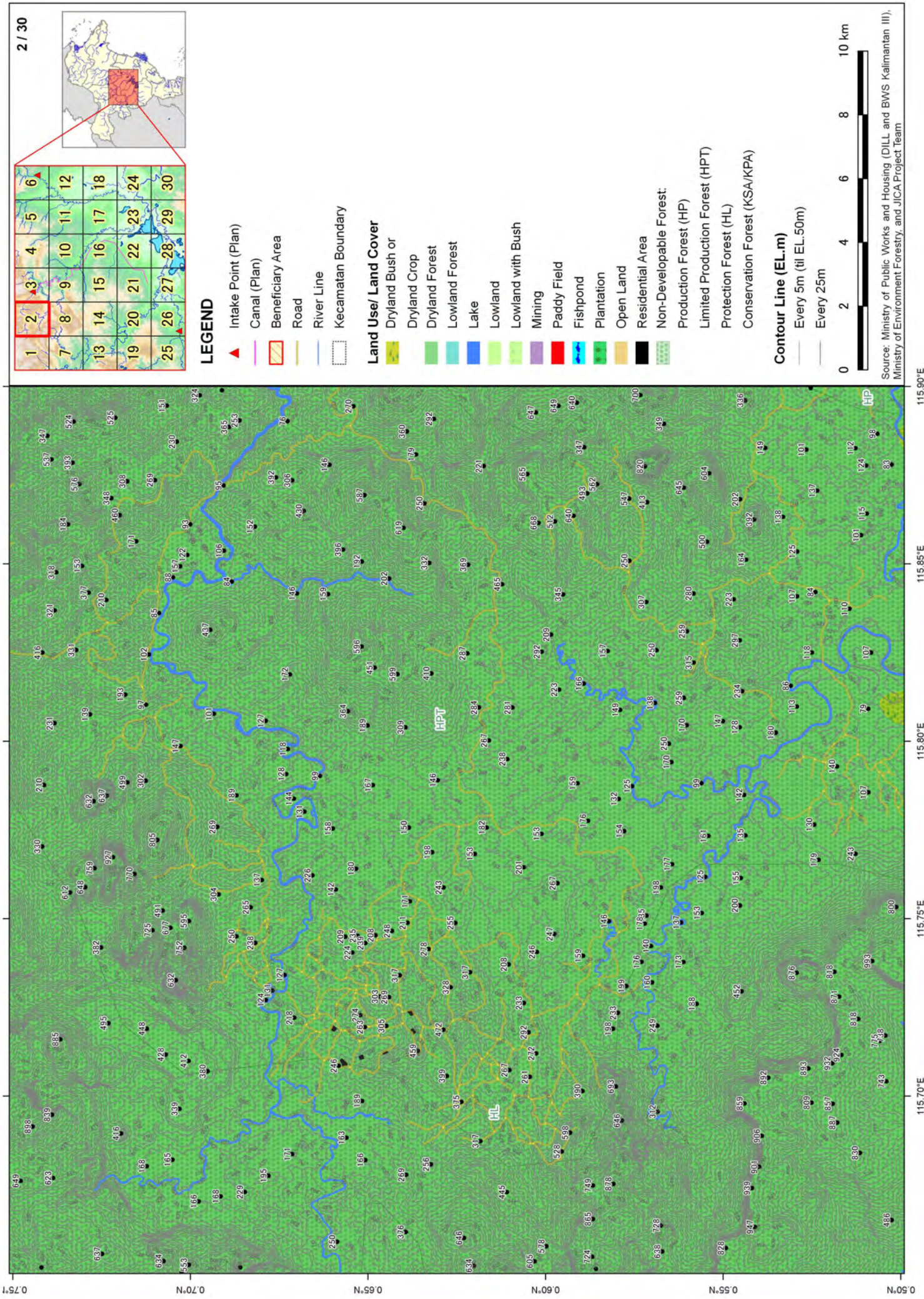
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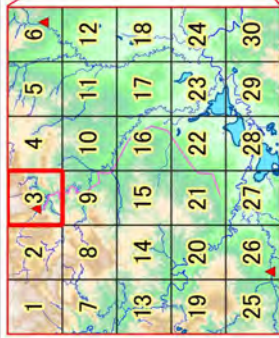
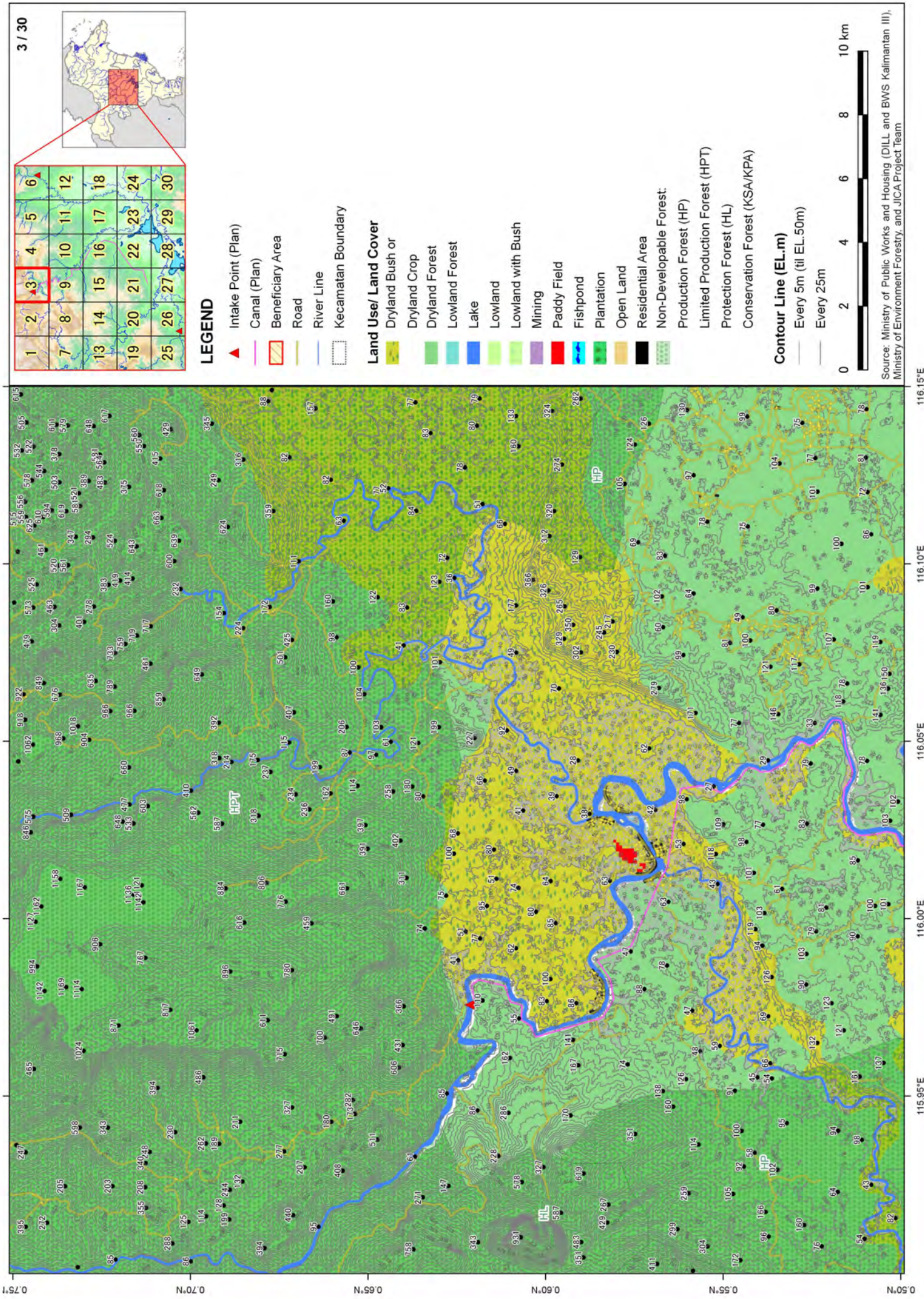
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Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III), Ministry of Environment Forestry, and JICA Project team





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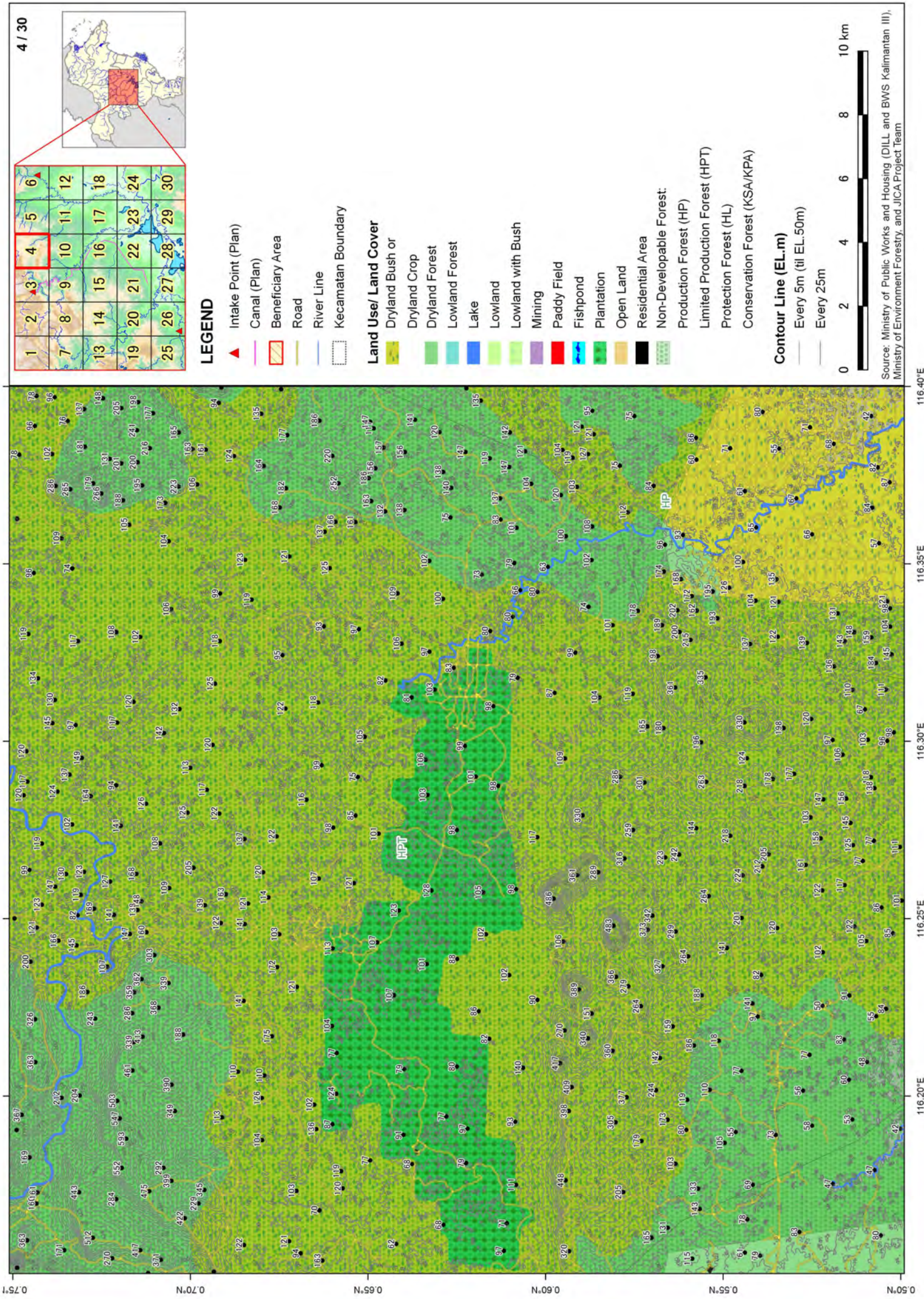
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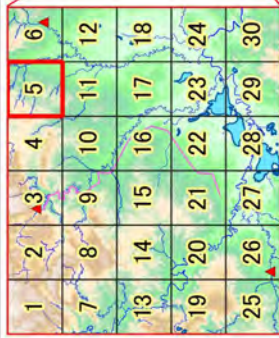
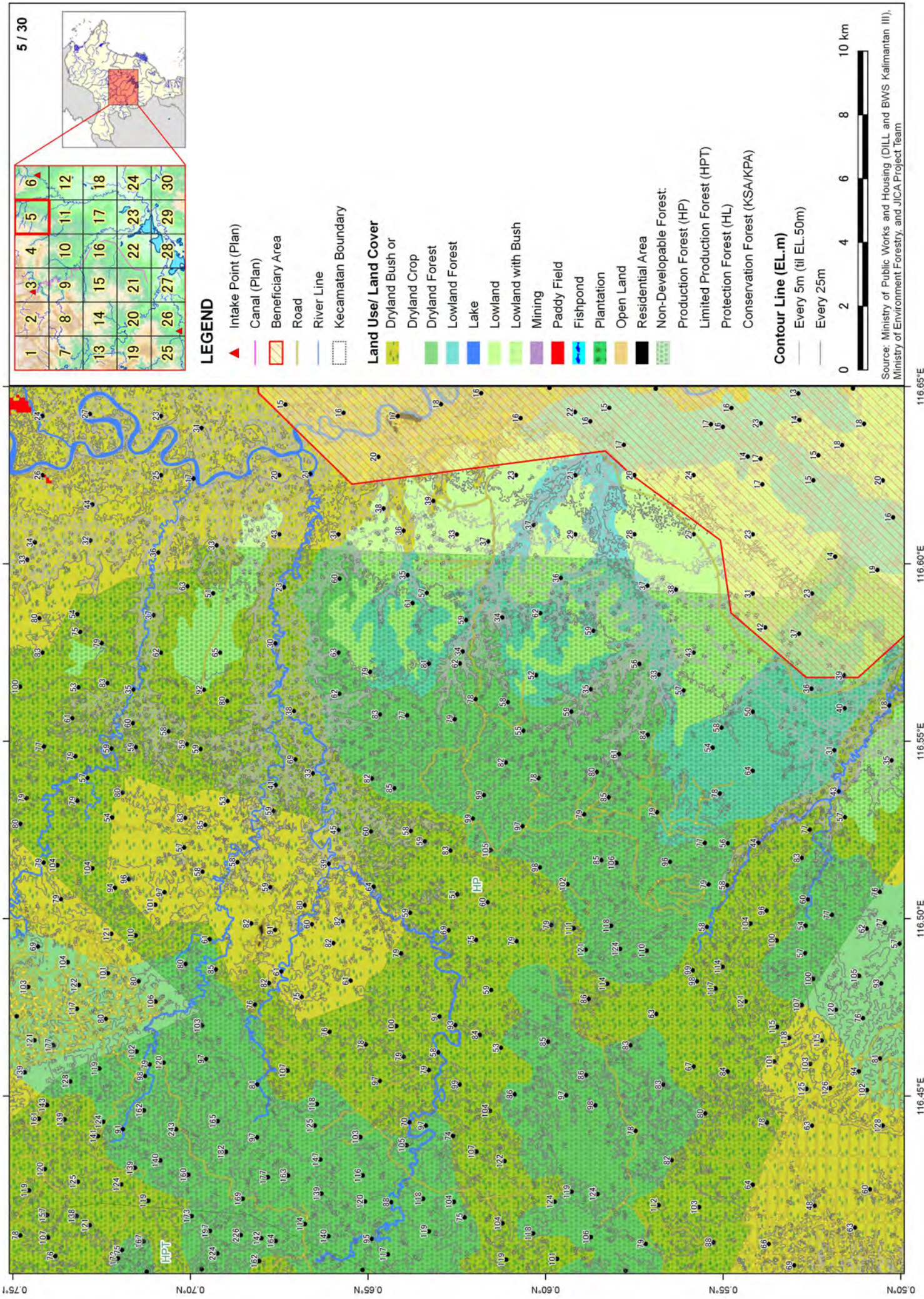
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Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III), Ministry of Environment Forestry, and JICA Project team



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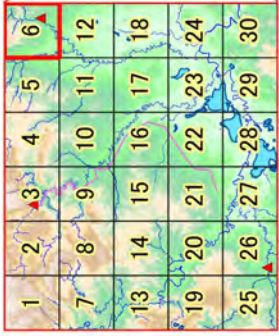
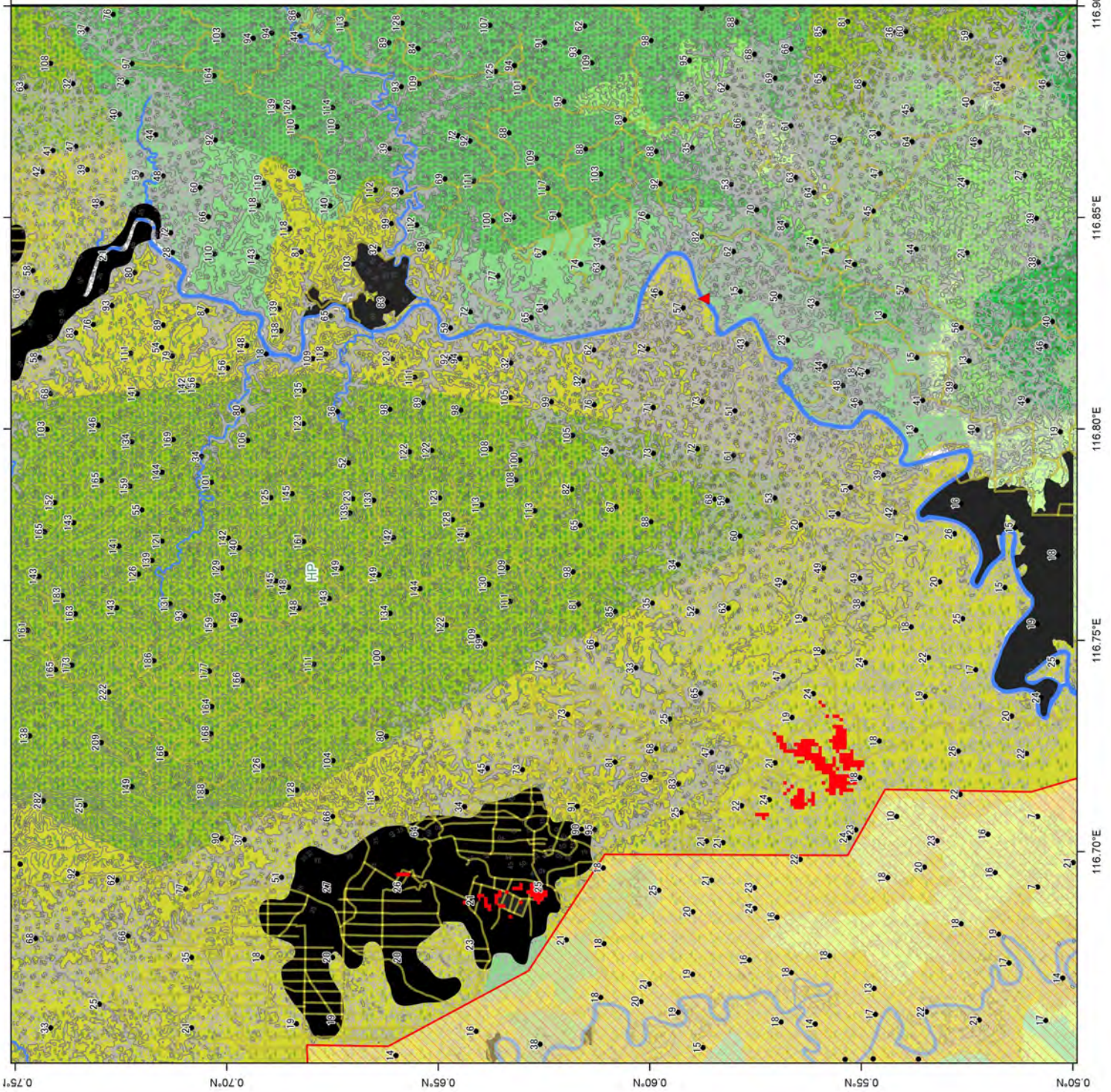
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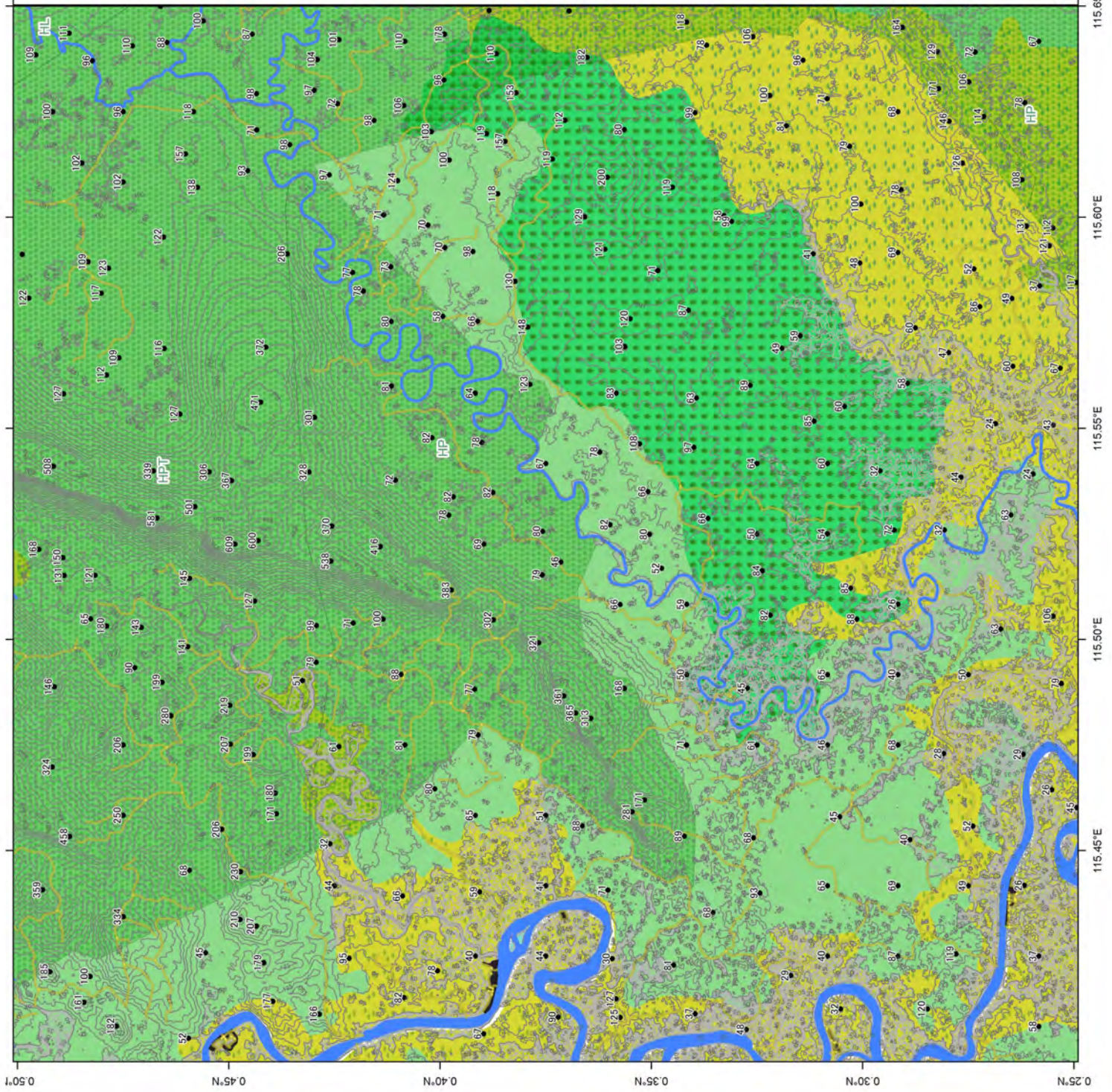
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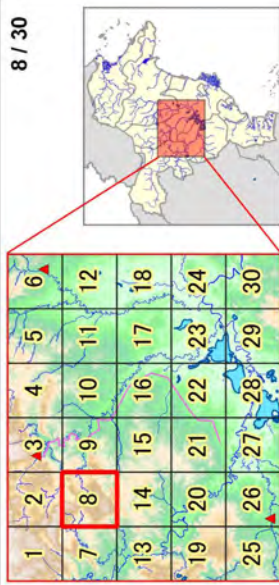
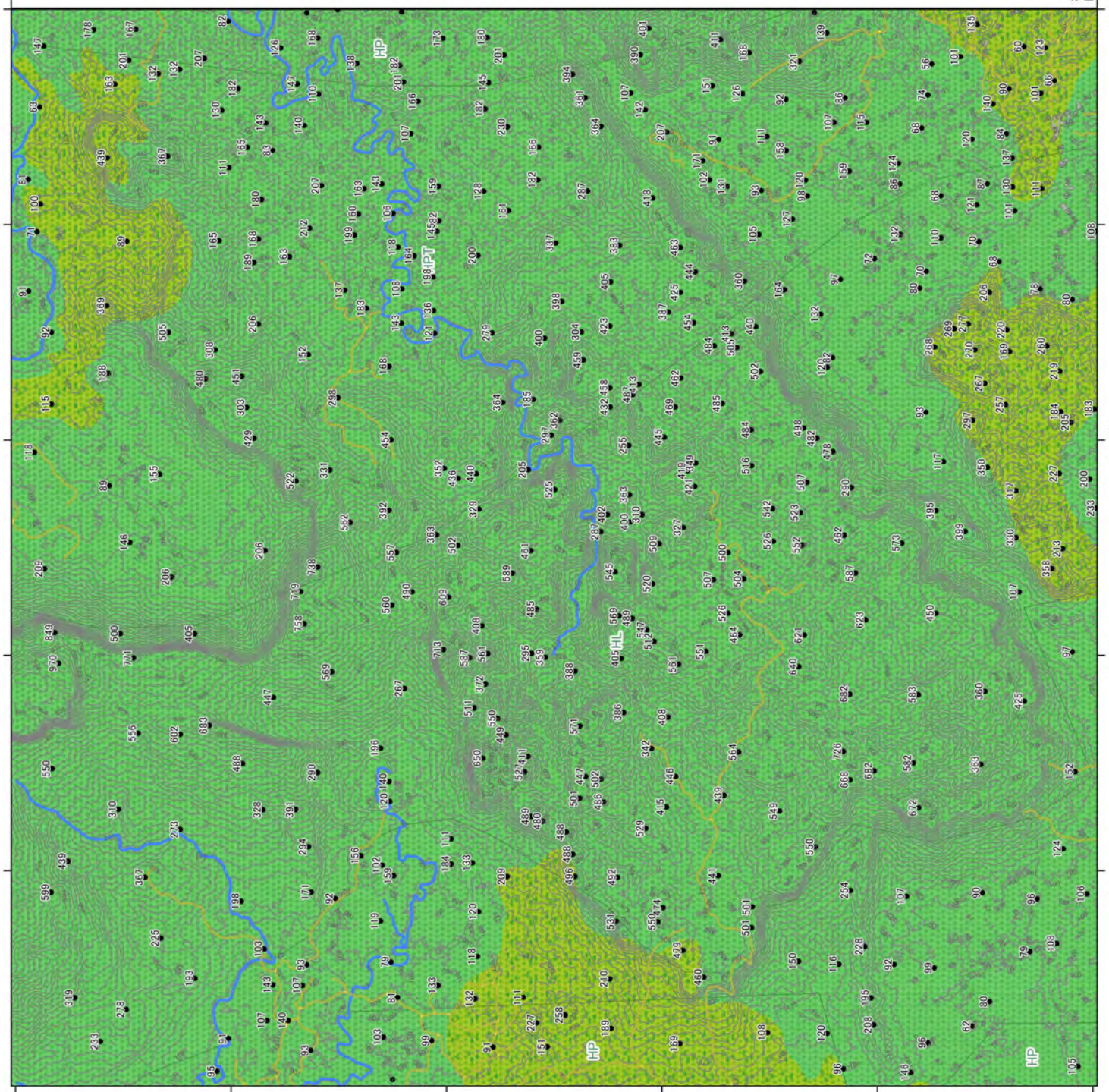
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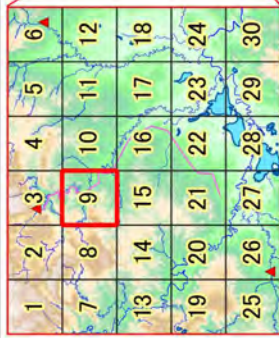
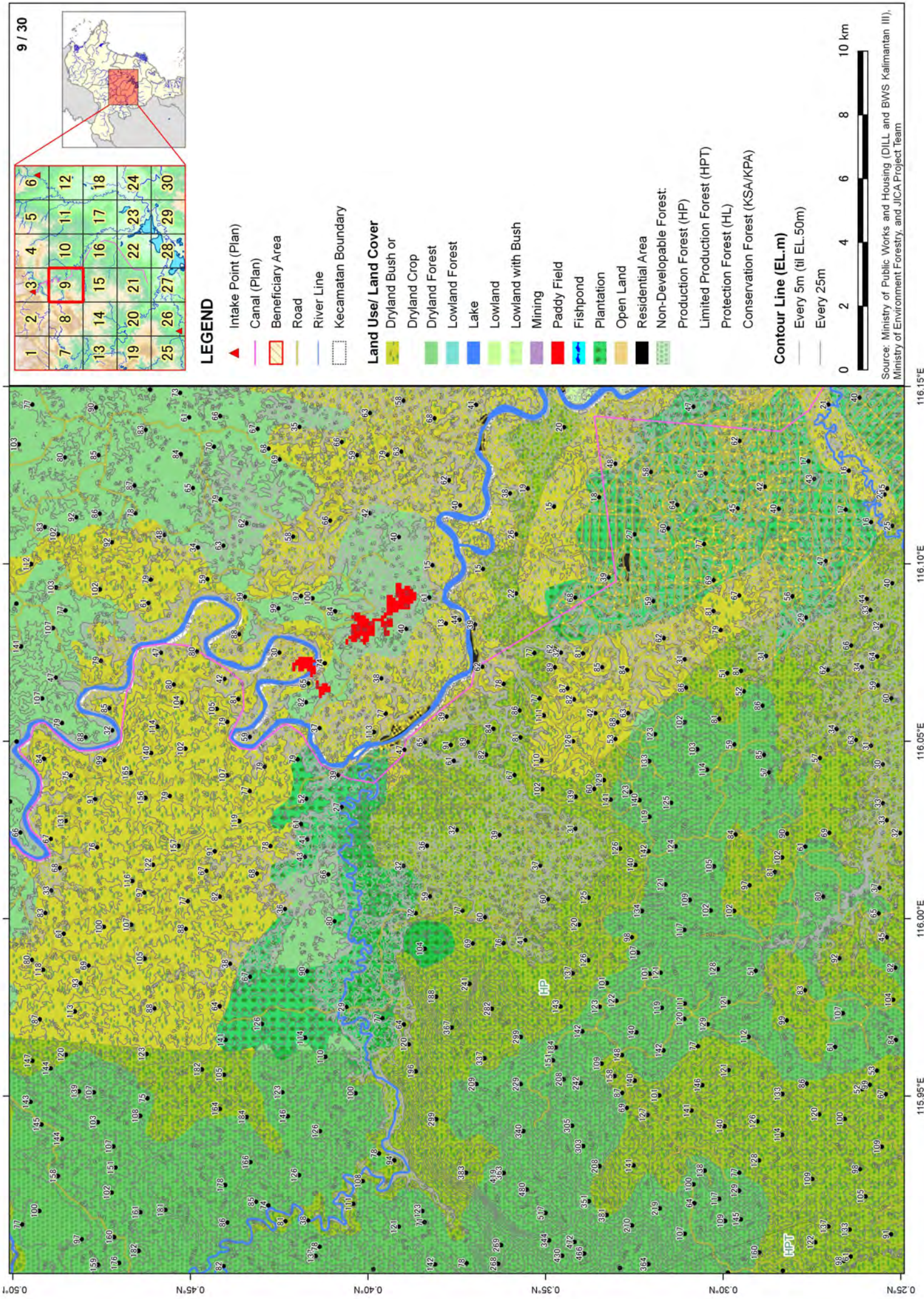
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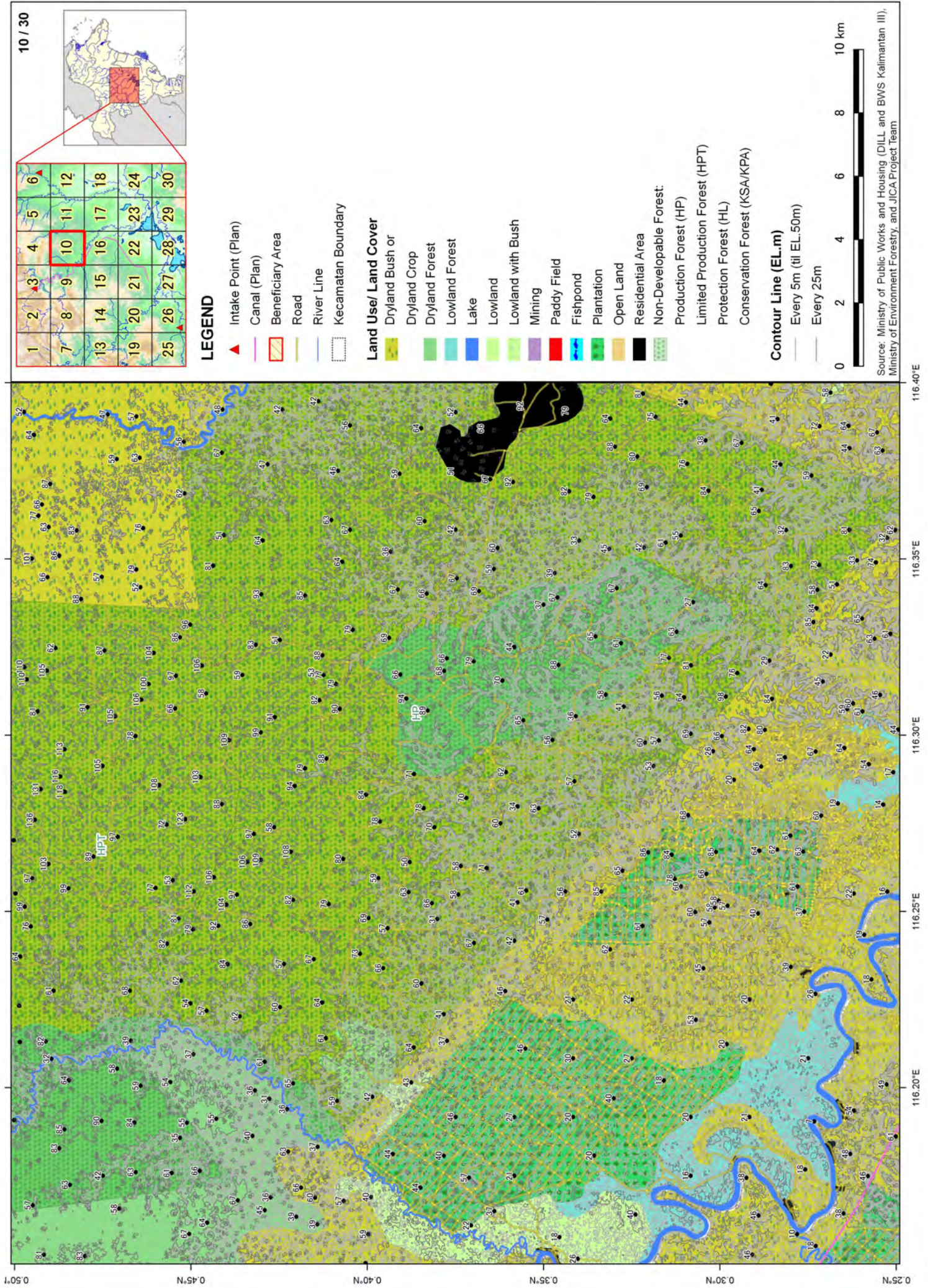
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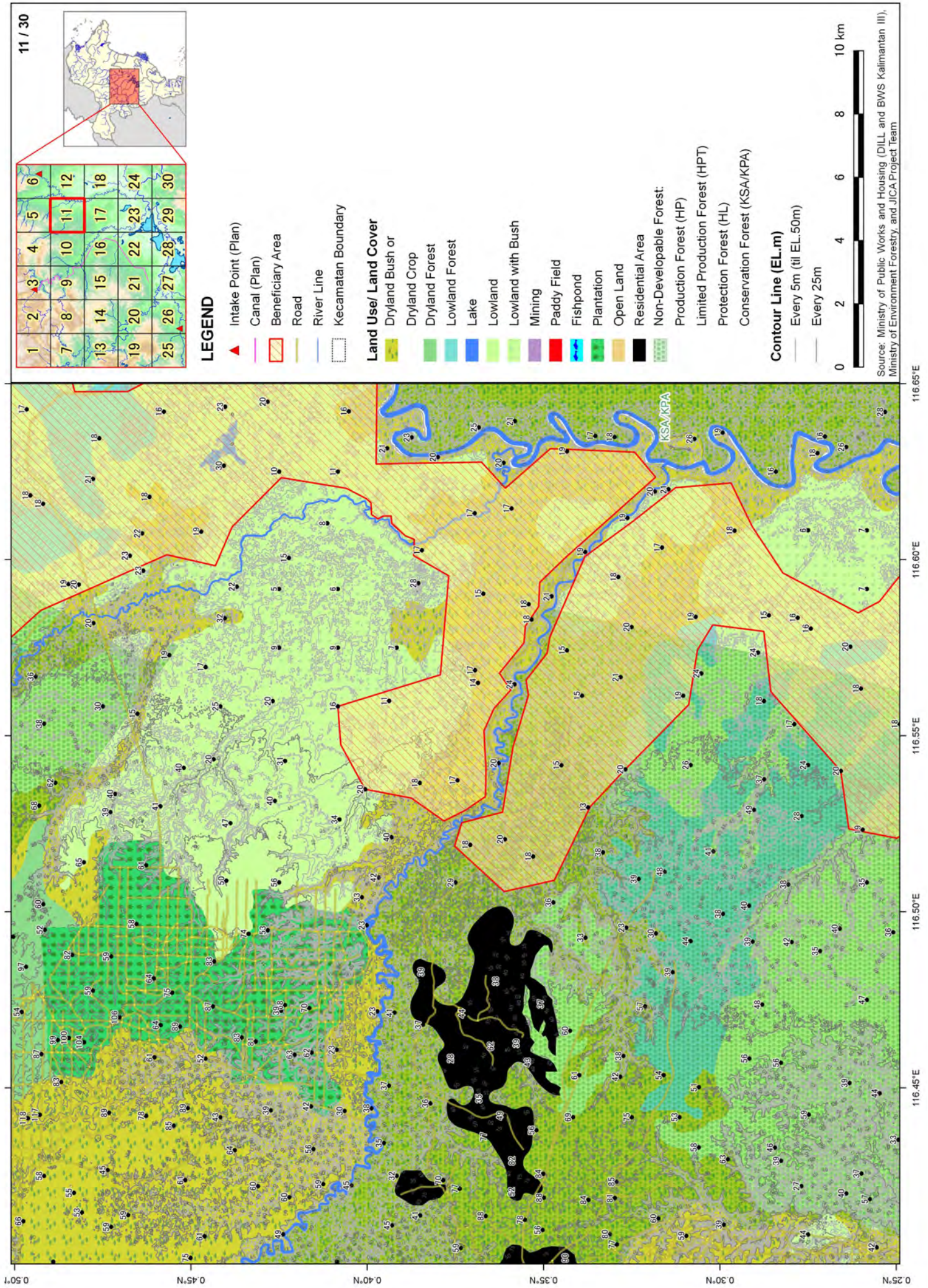
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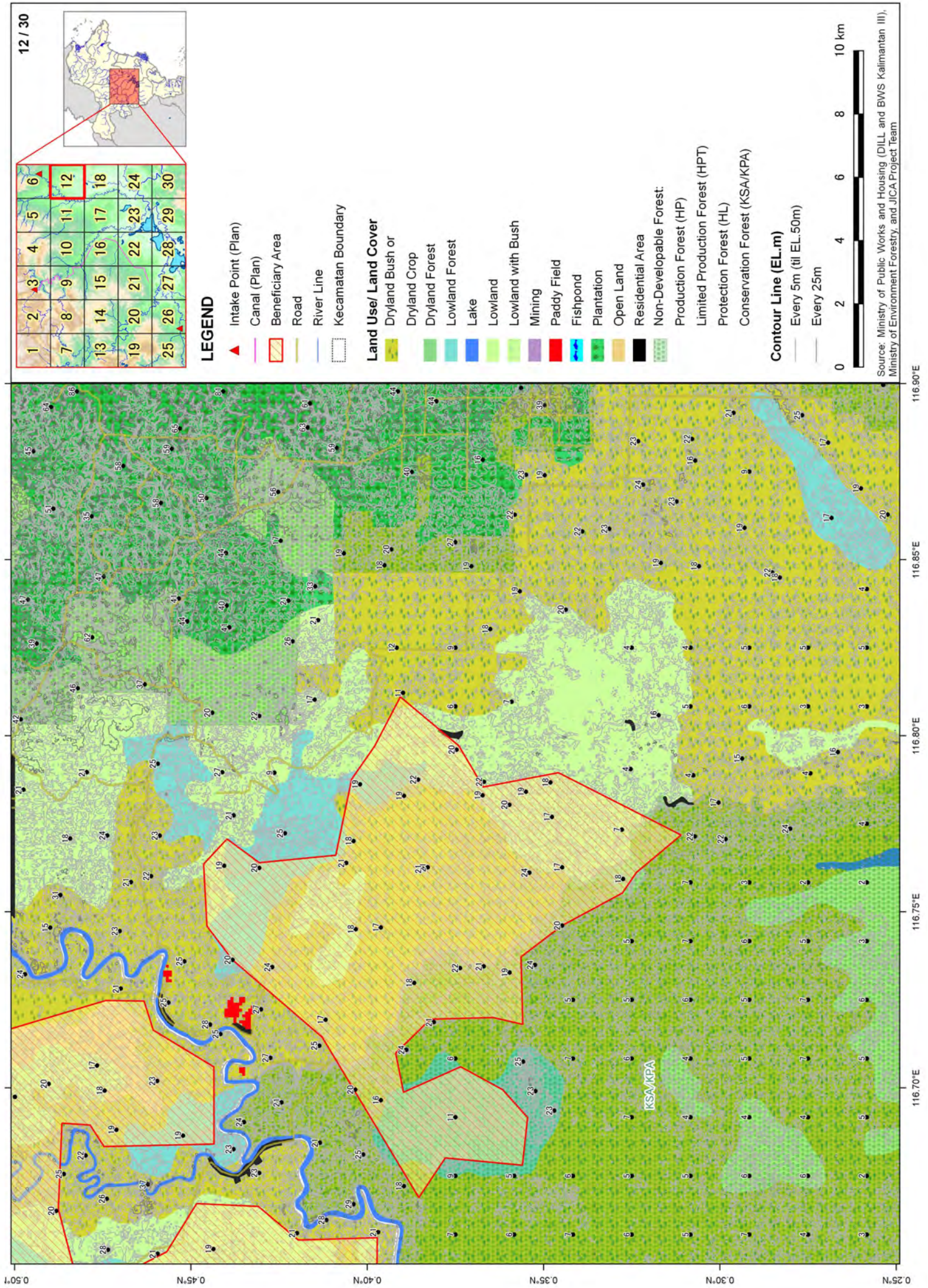
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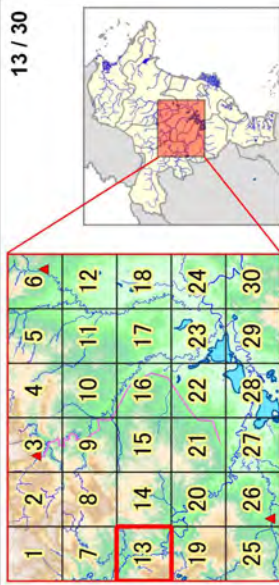
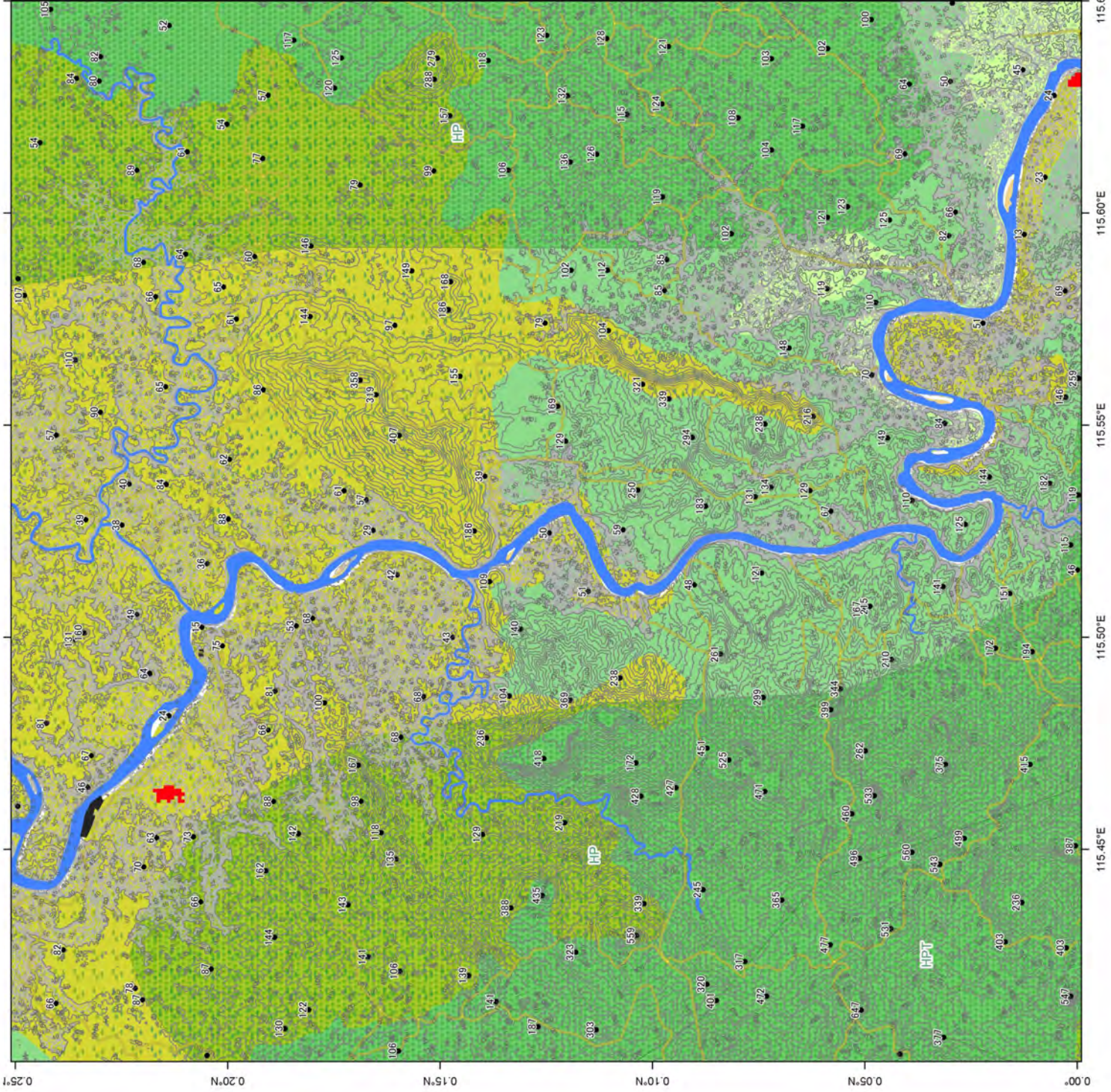
Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III), Ministry of Environment Forestry, and JICA Project team







Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III), Ministry of Environment Forestry, and JICA Project Team



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LEGEND

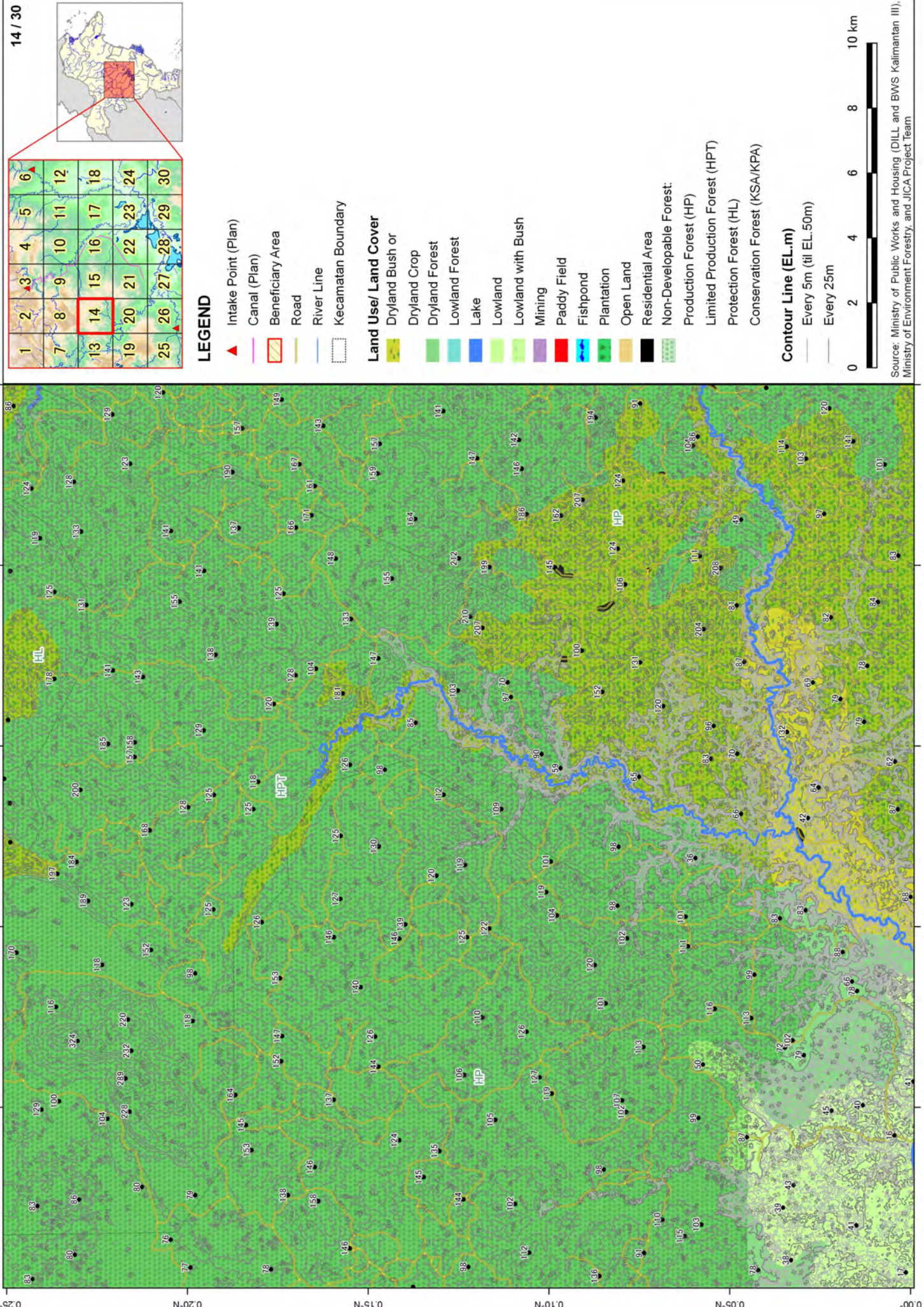
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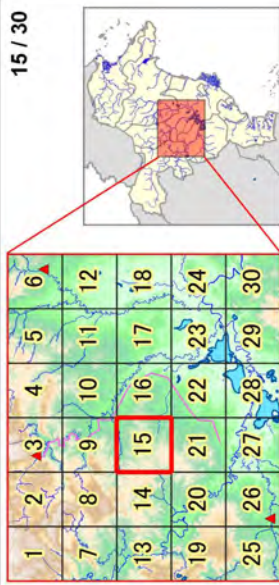
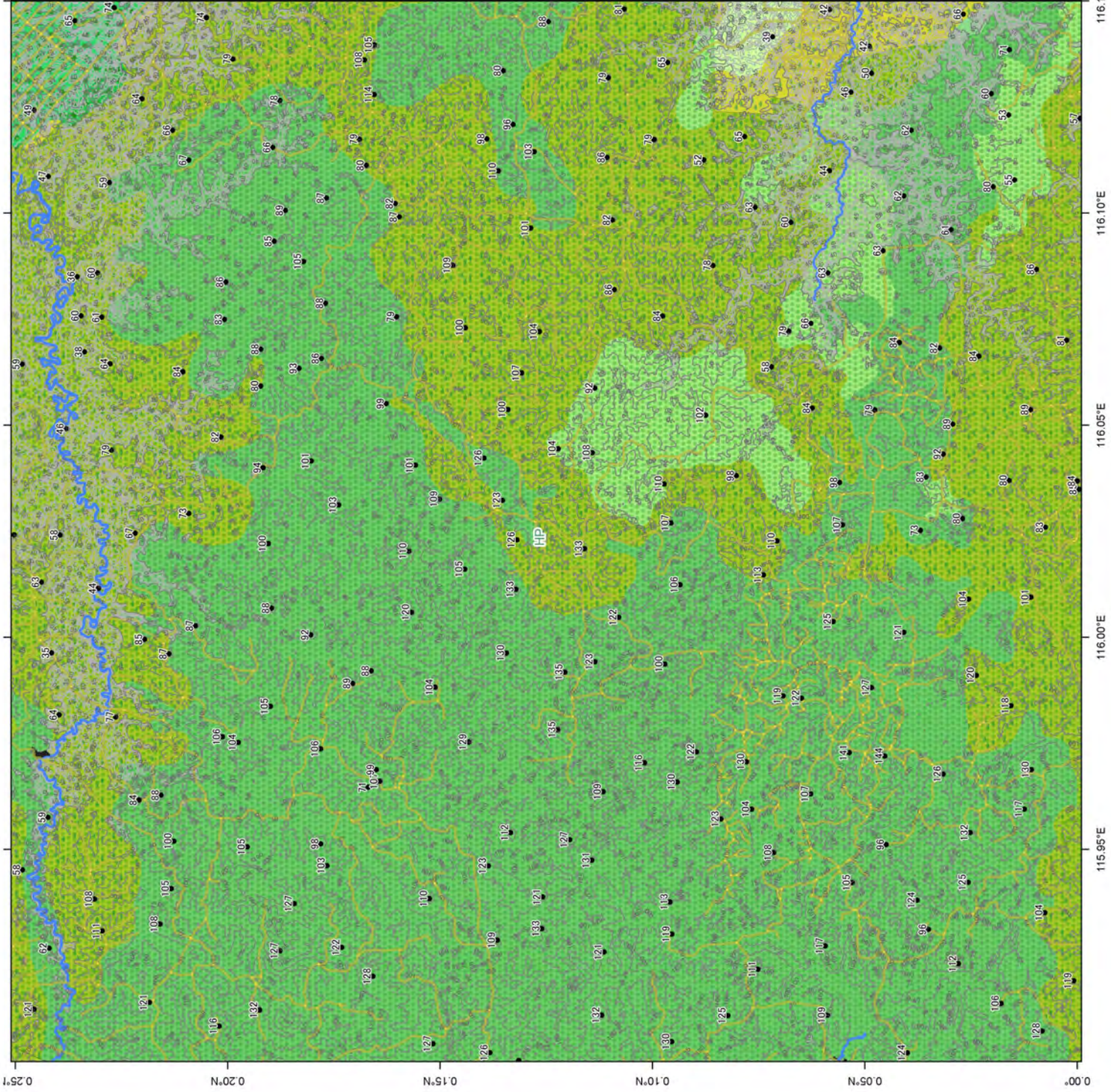
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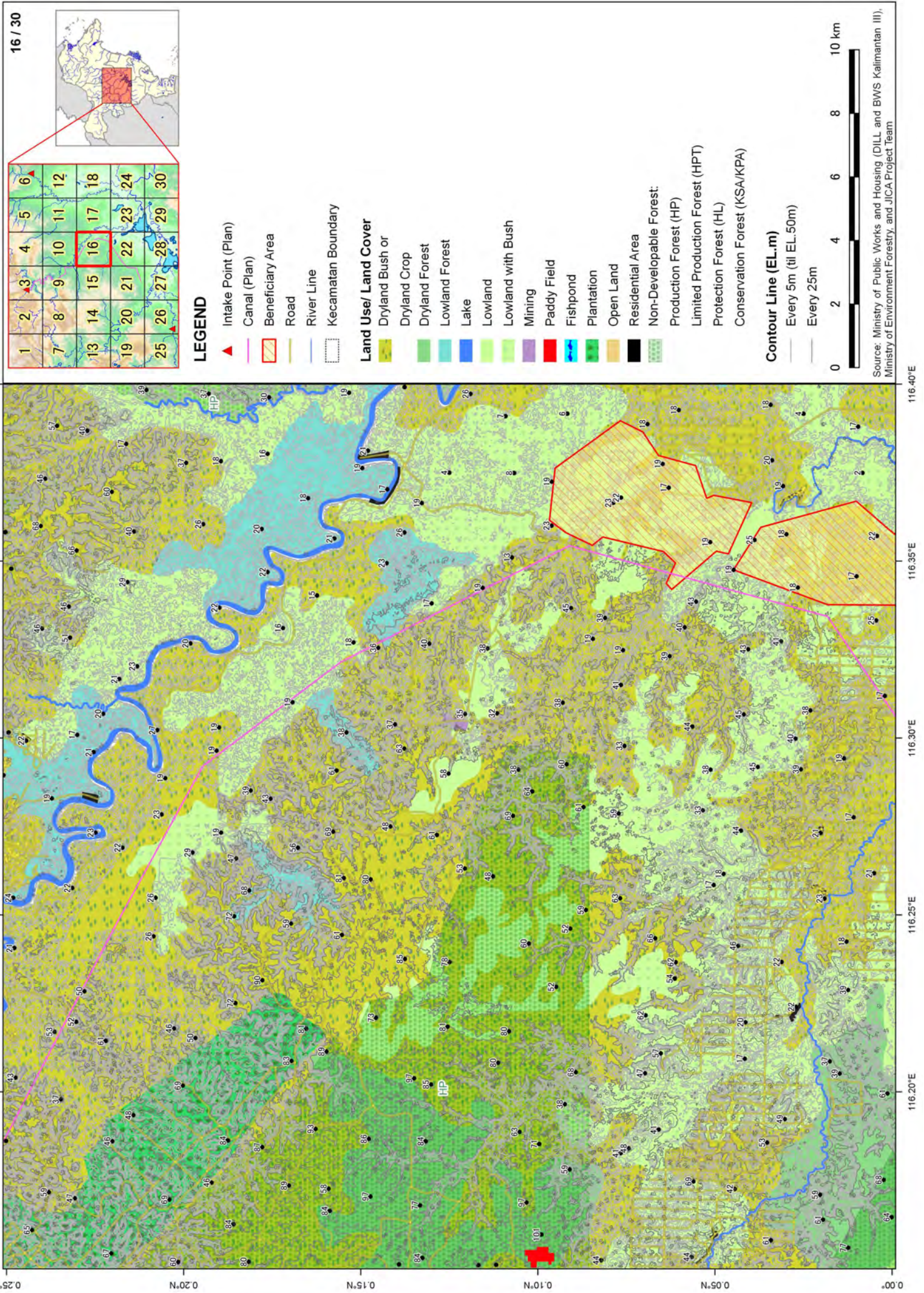
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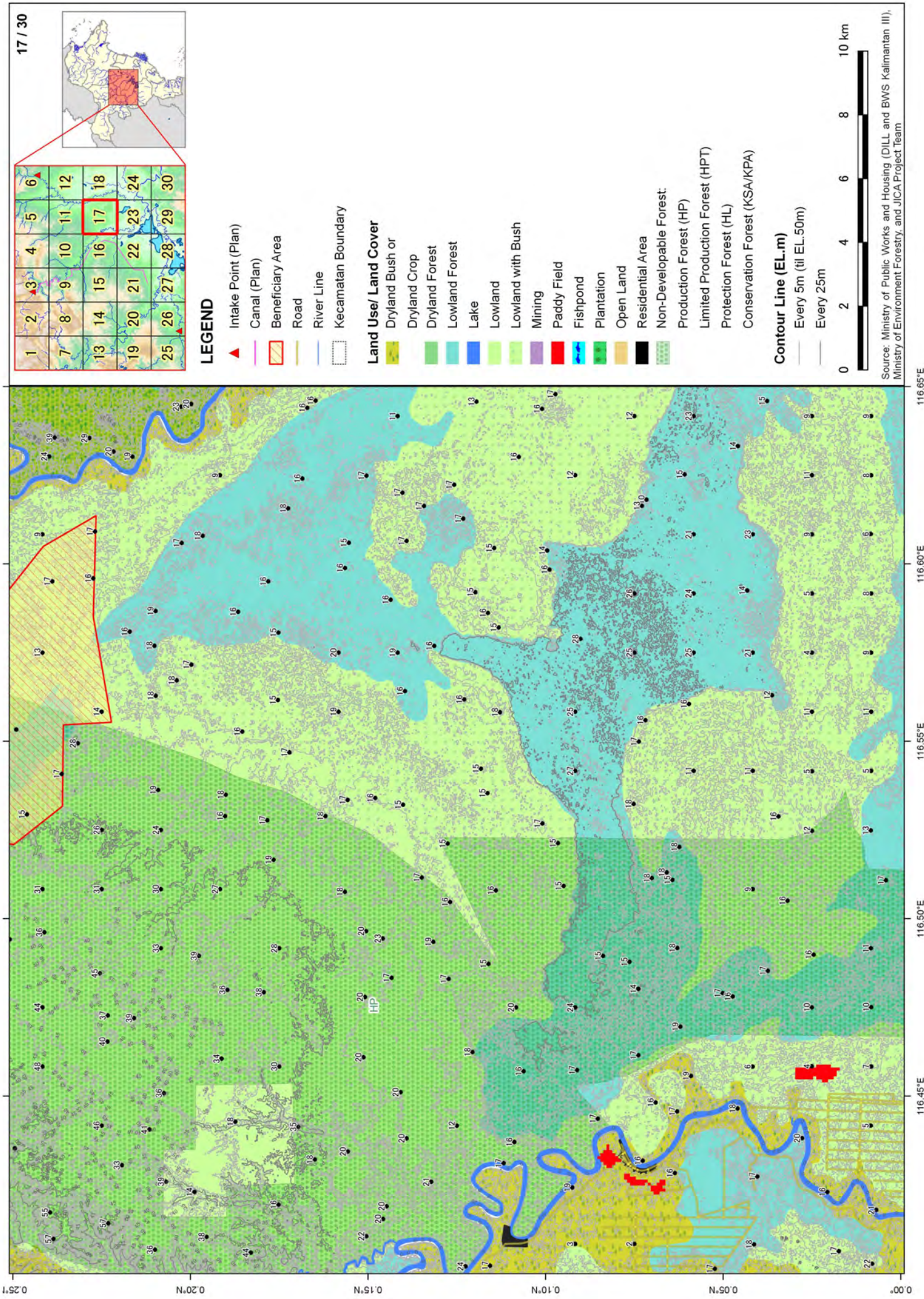
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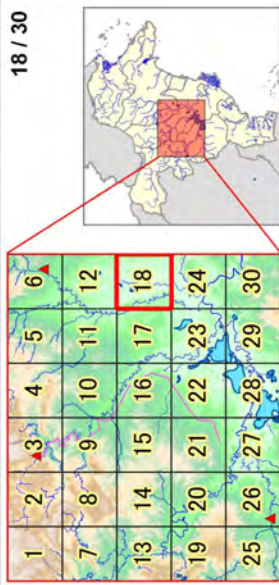
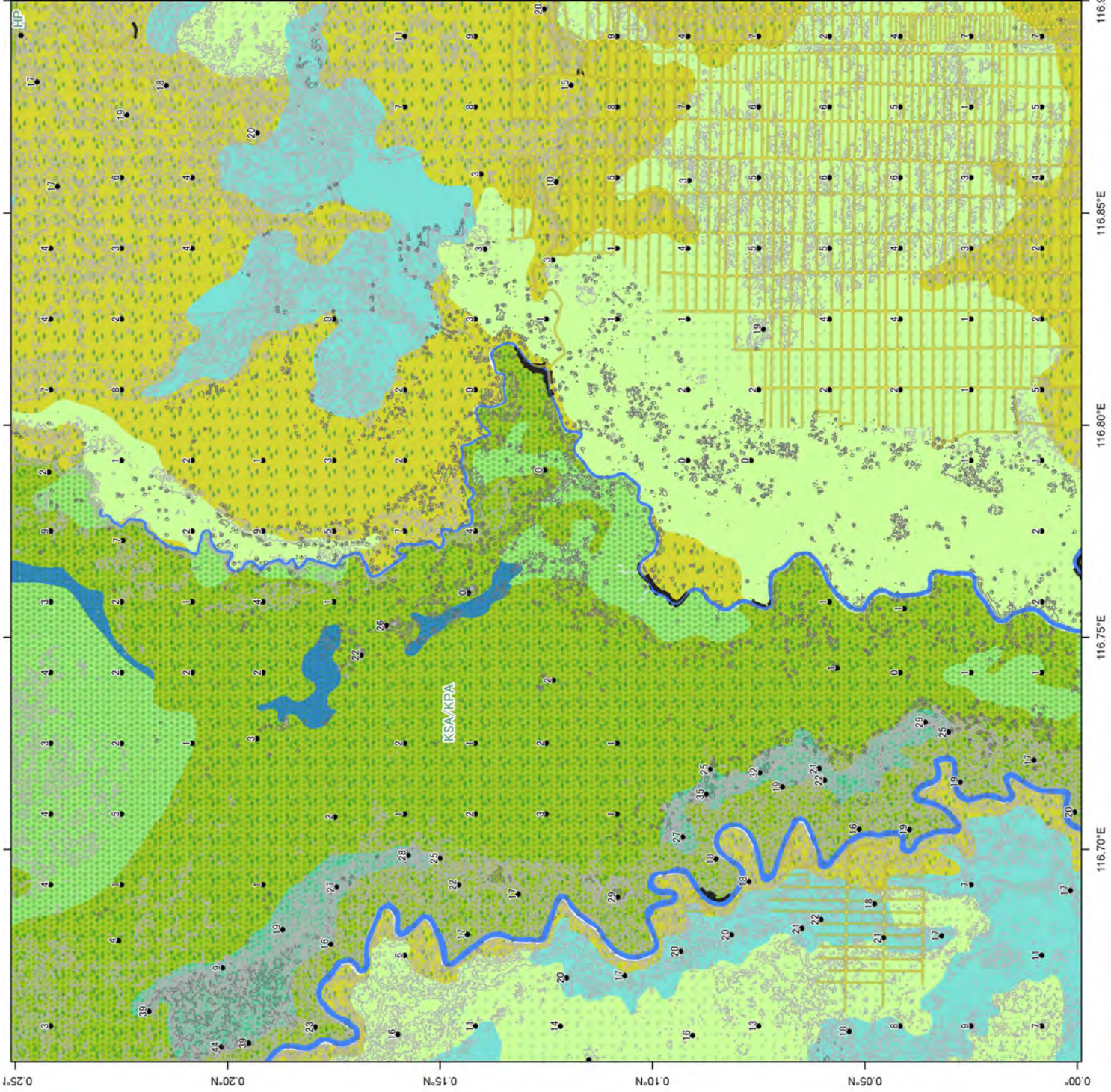
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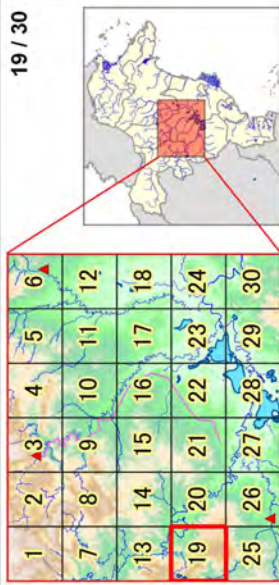
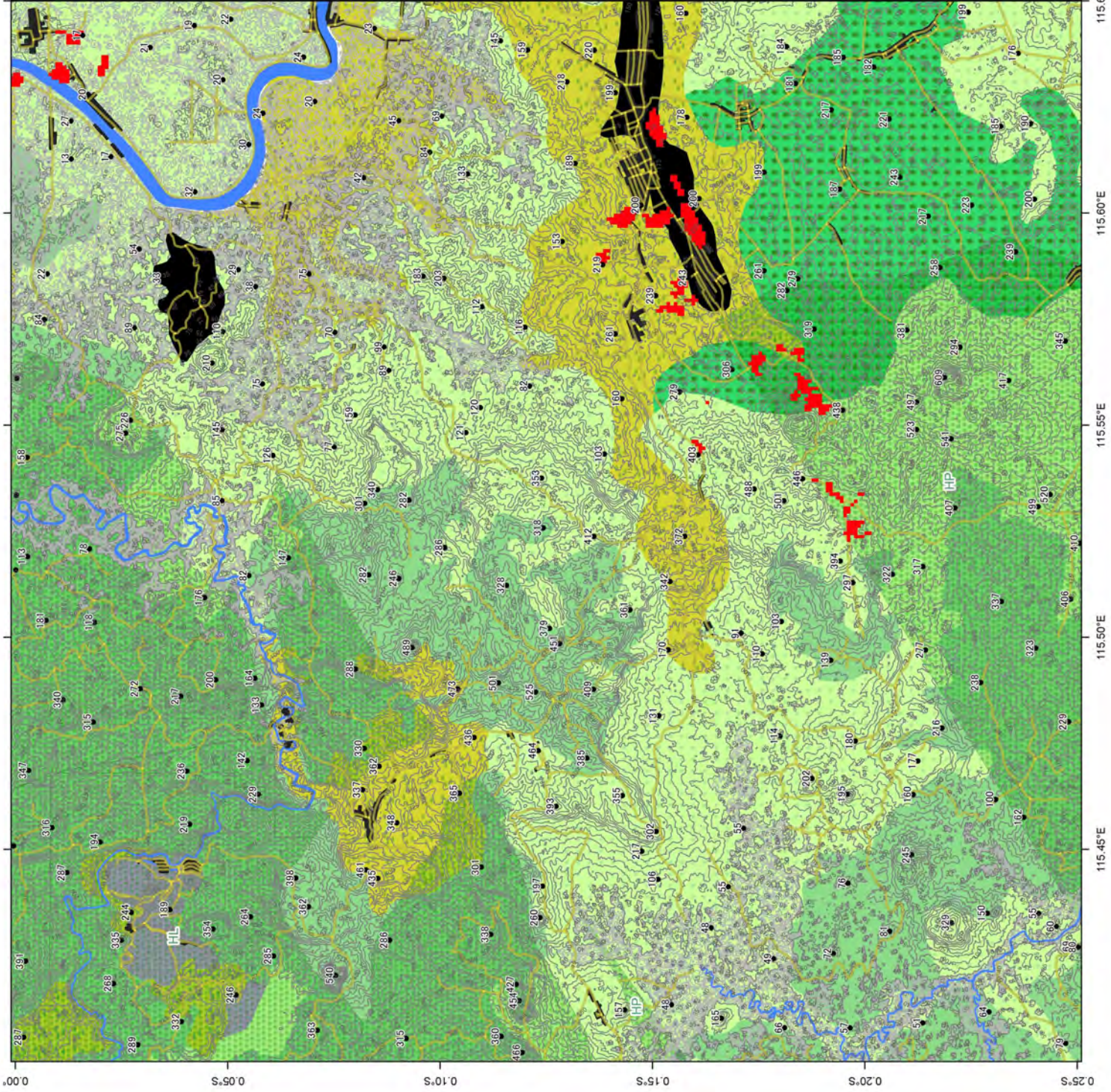
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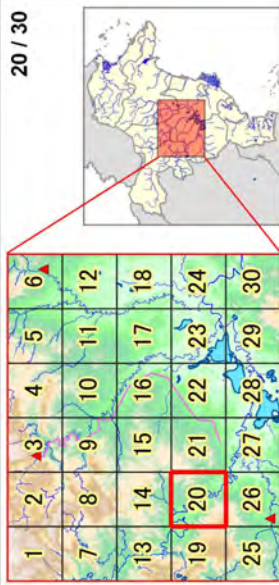
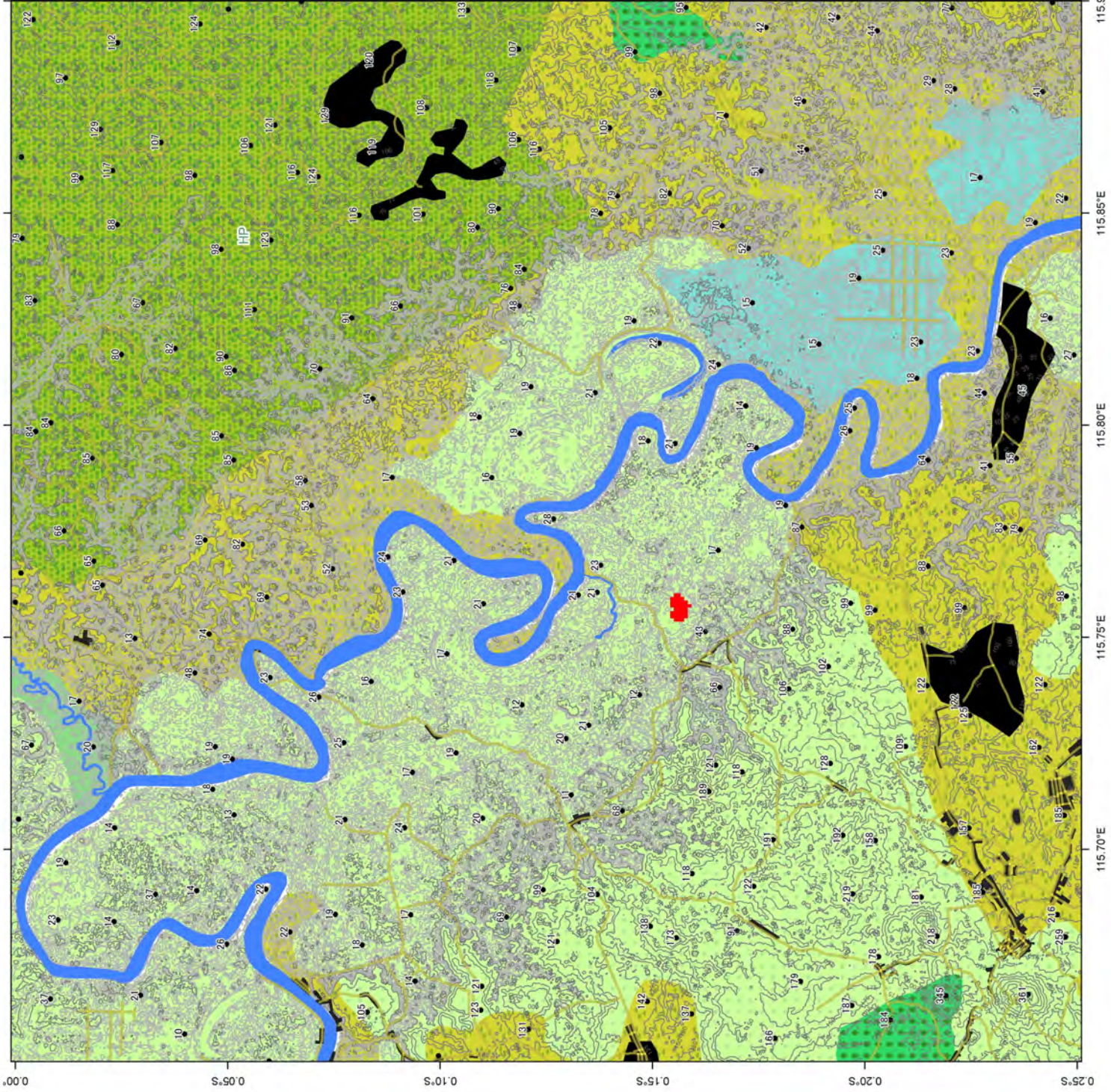
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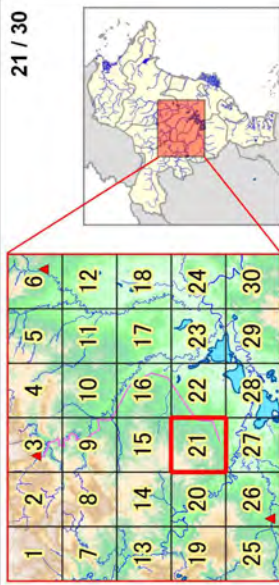
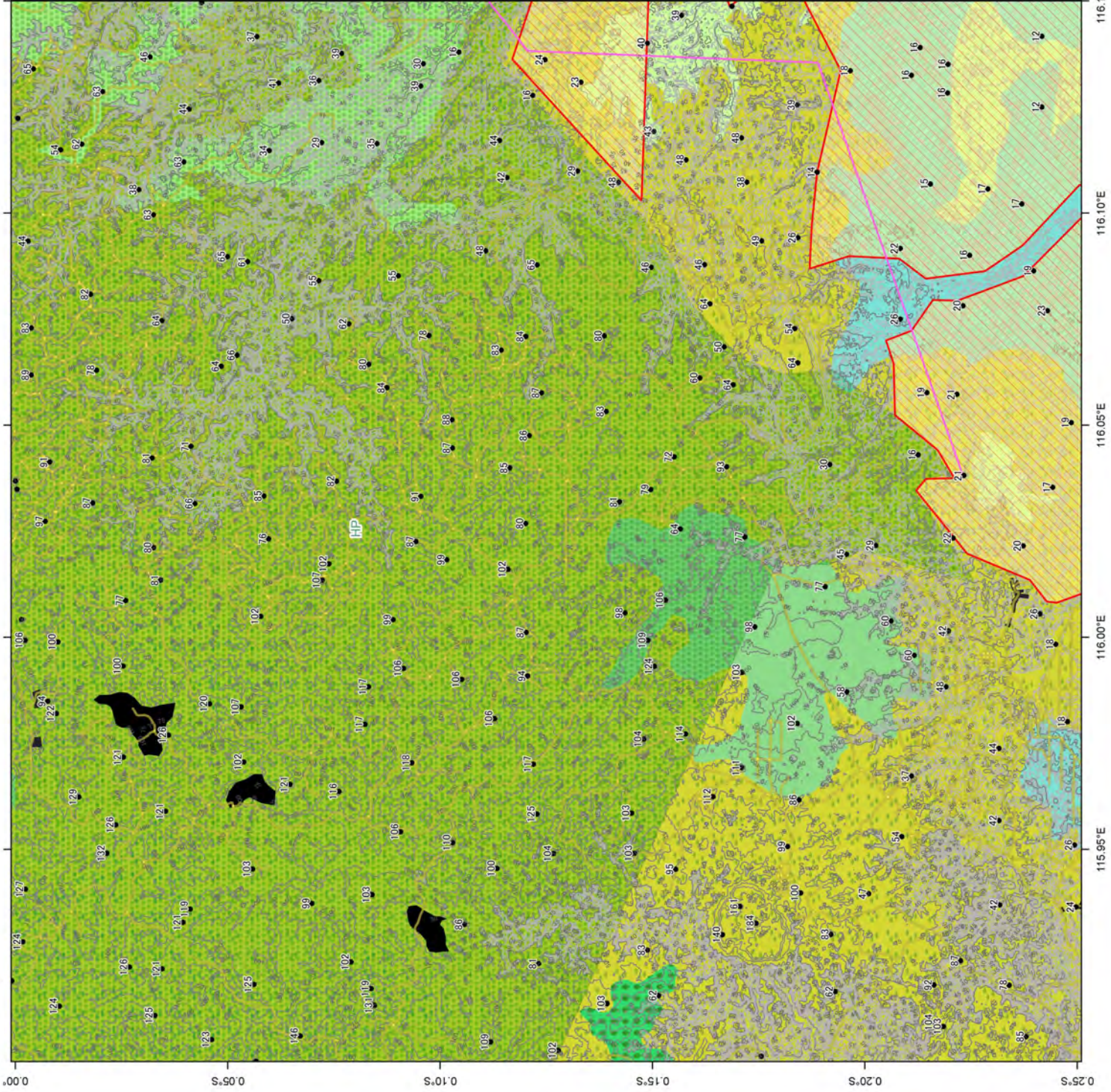
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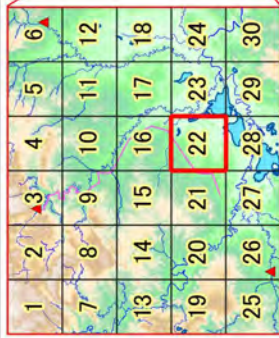
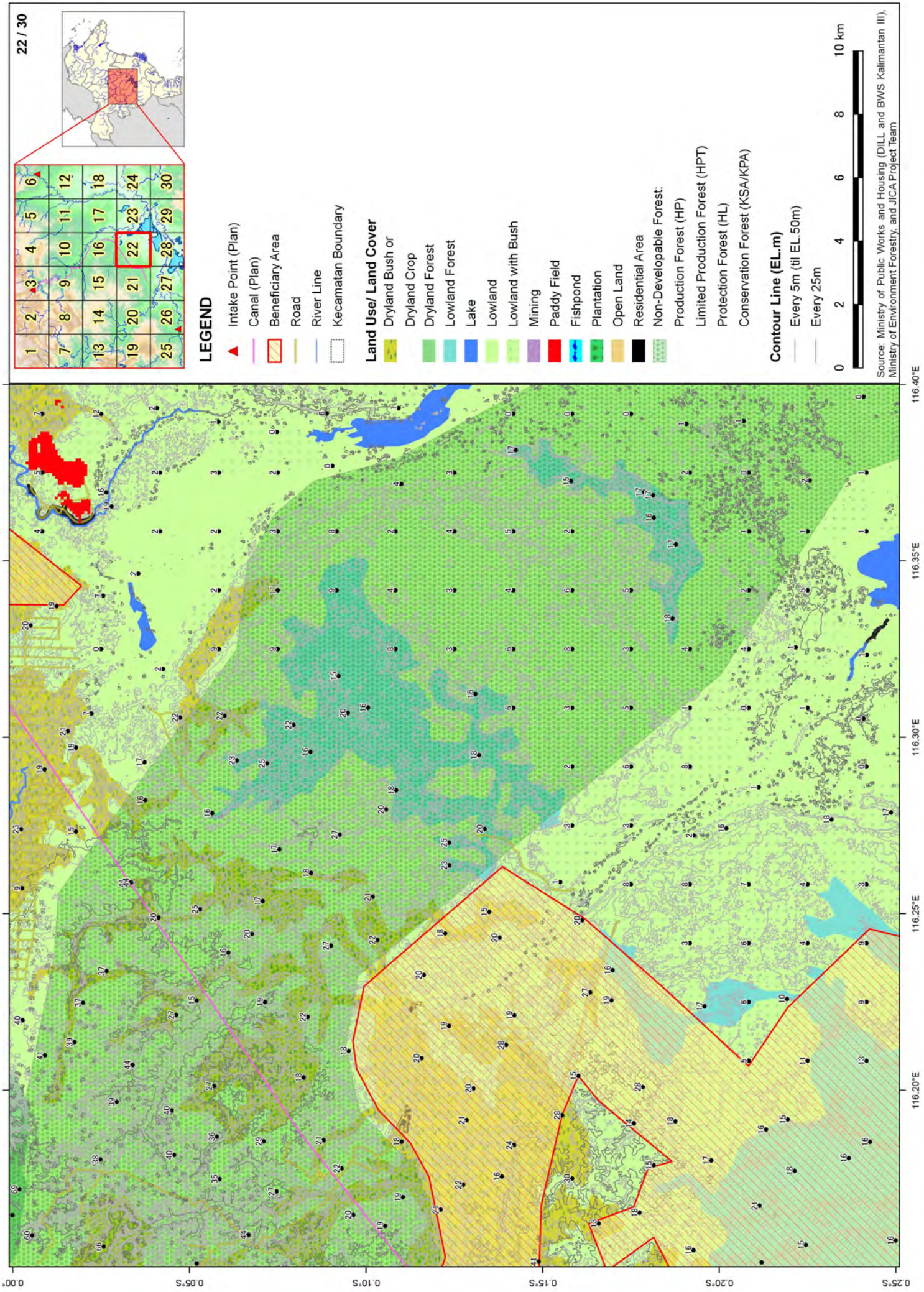
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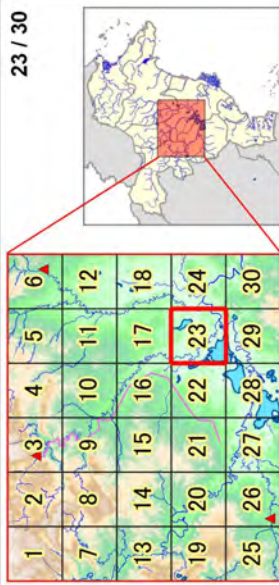
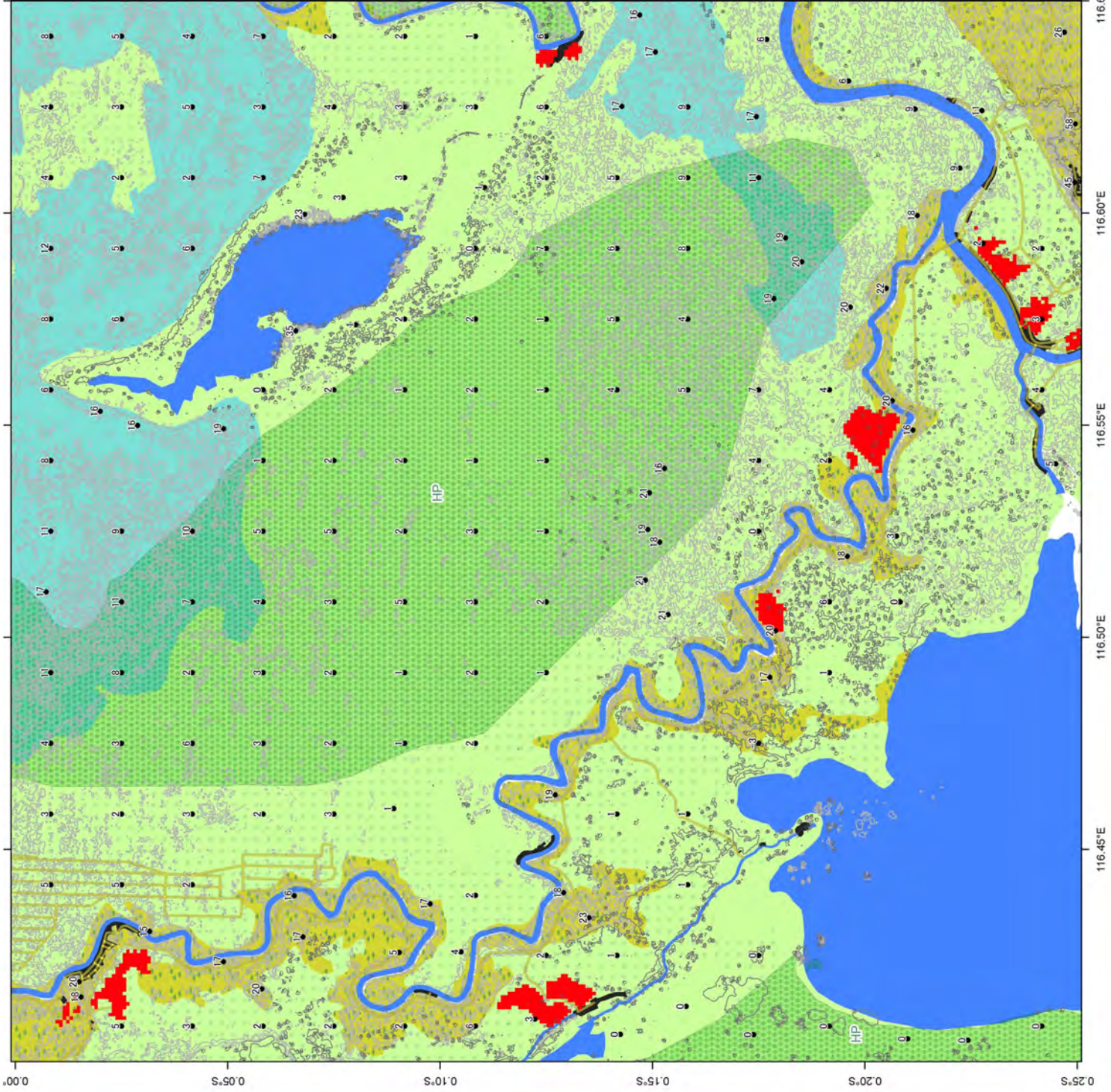
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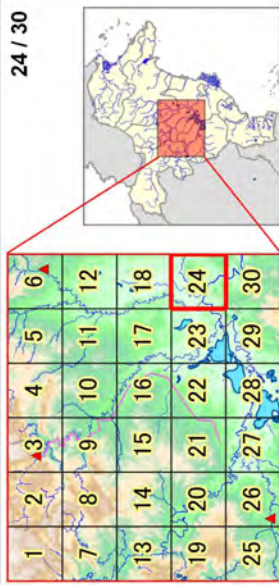
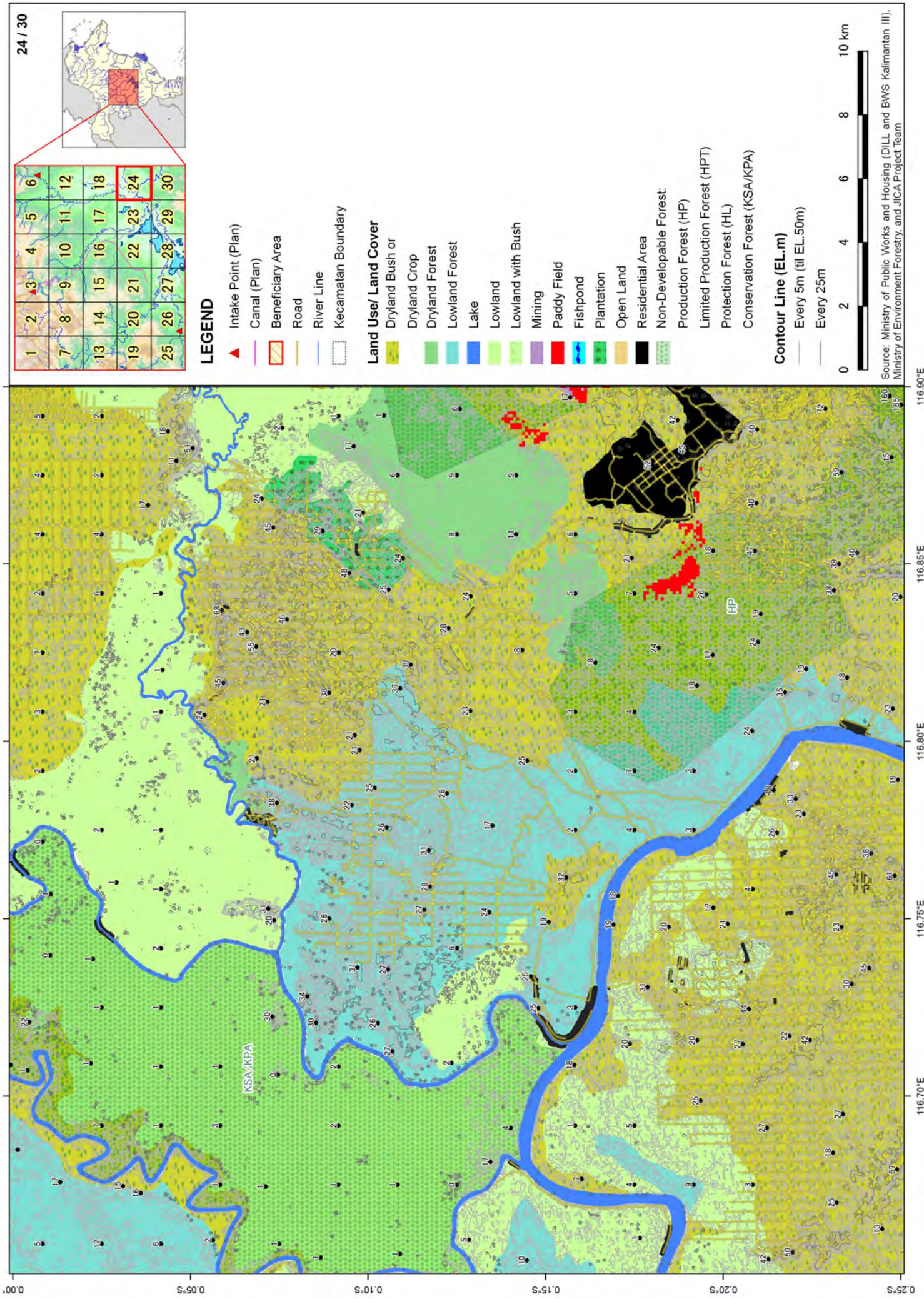
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 - Conservation Forest (KSA/KPA)

Contour Line (EL.m)

- Every 5m (til EL.50m)
- Every 25m



Source: Ministry of Public Works and Housing (DIL and BWS Kalimantan III),
Ministry of Environment Forestry, and JICA Project team



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LEGEND

- ▲ Intake Point (Plan)
 - Canal (Plan)
 - ▨ Beneficiary Area
 - Road
 - River Line
 - ⋯ Kecamatan Boundary
- Land Use/ Land Cover**
- Dryland Bush or
 - Dryland Crop
 - Dryland Forest
 - Lowland Forest
 - Lake
 - Lowland
 - Lowland with Bush
 - Mining
 - Paddy Field
 - Fishpond
 - Plantation
 - Open Land
 - Residential Area
 - Non-Developable Forest:
 - Production Forest (HP)
 - Limited Production Forest (HPT)
 - Protection Forest (HL)
 - Conservation Forest (KSA/KPA)

Contour Line (EL.m)

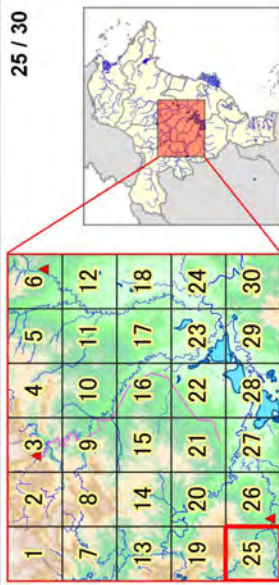
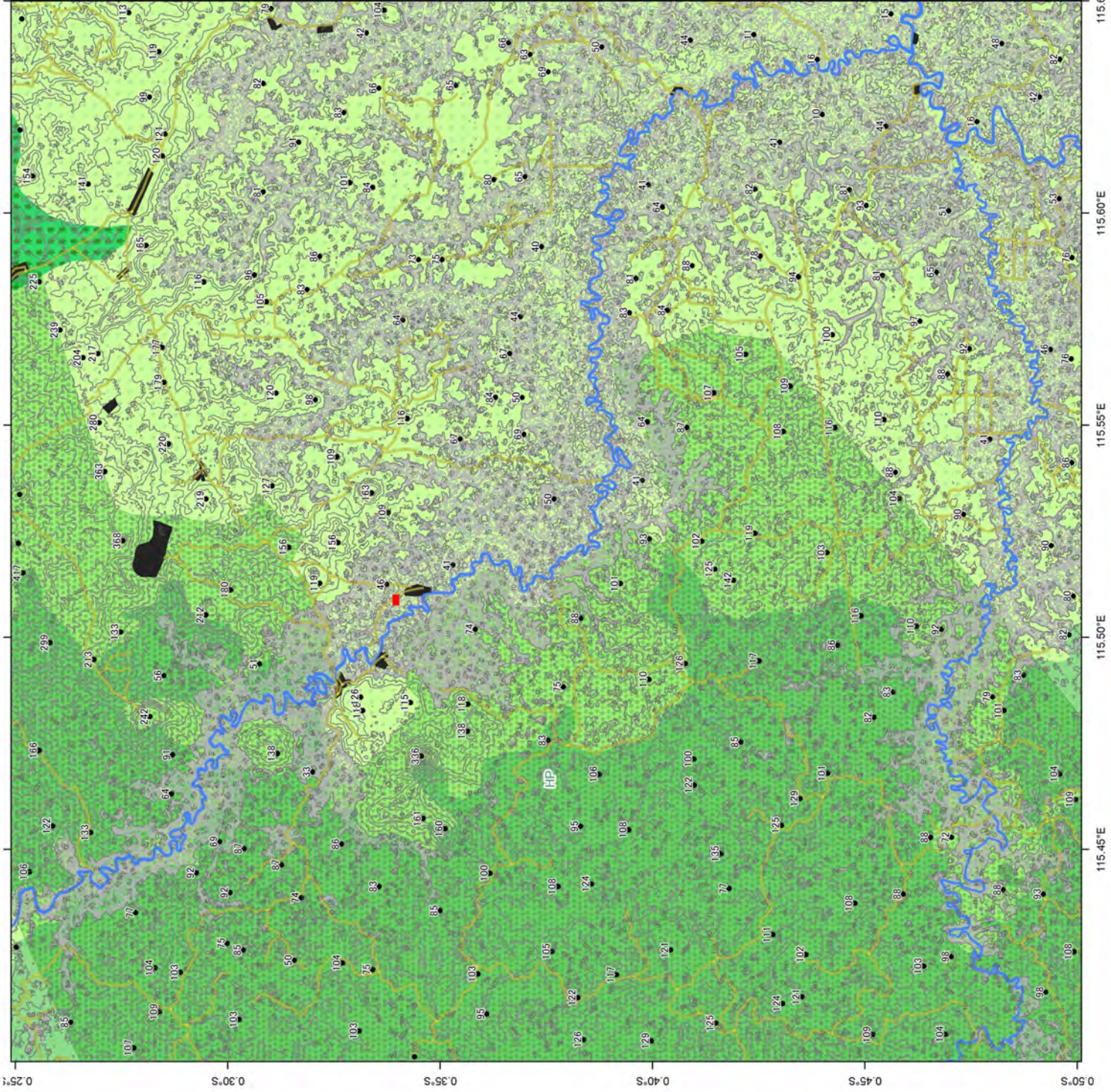
- Every 5m (til EL.50m)
- Every 25m



Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III),
Ministry of Environment Forestry, and JICA Project team

0.00°S 0.05°S 0.10°S 0.15°S 0.20°S 0.25°S

116.70°E 116.75°E 116.80°E 116.85°E 116.90°E



25 / 30

LEGEND

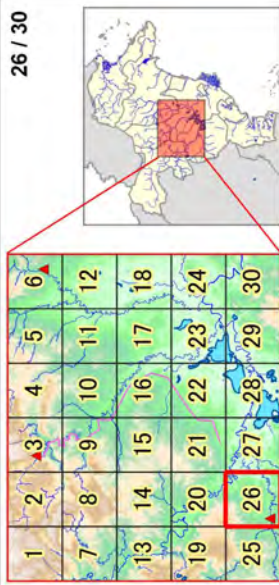
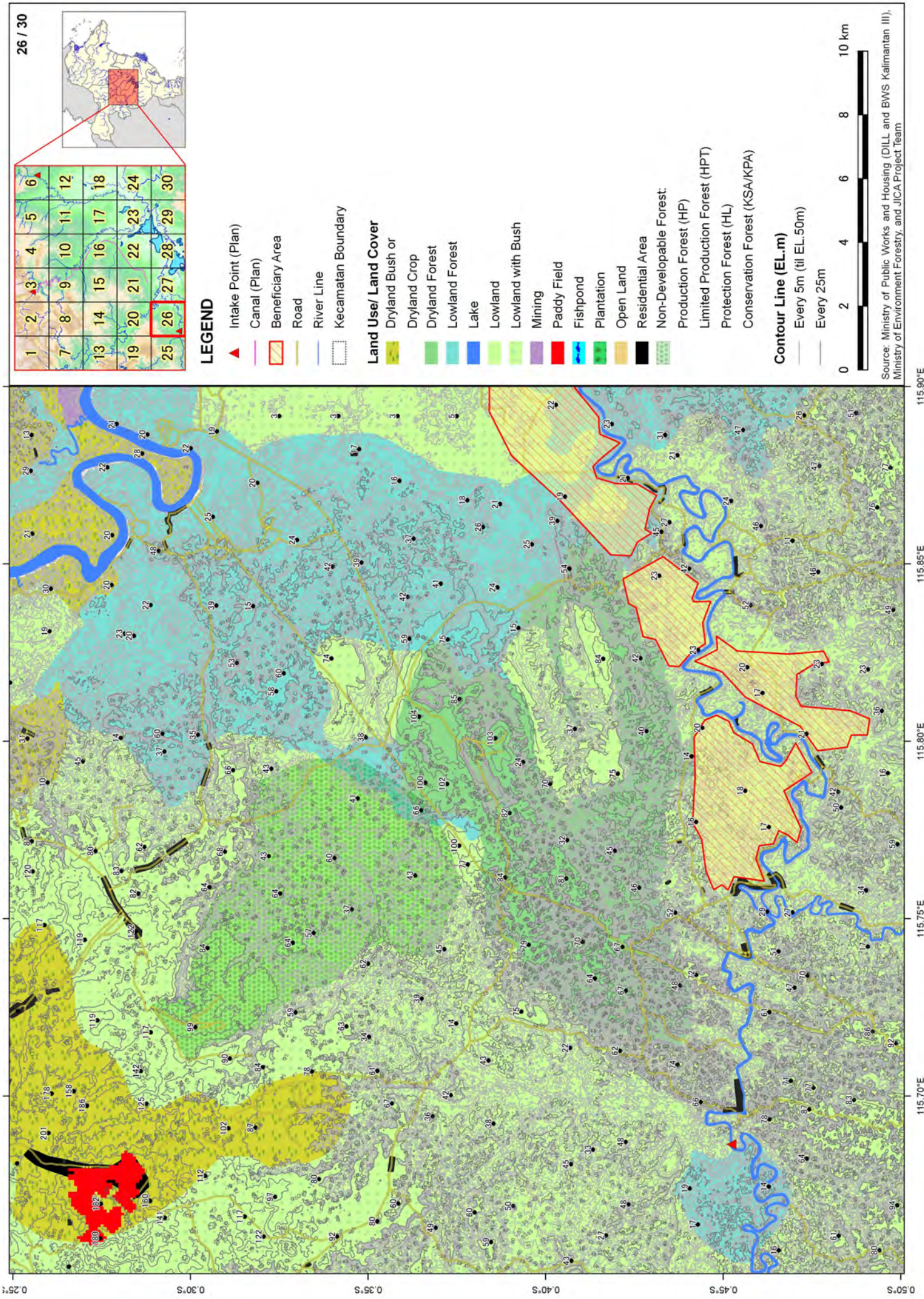
- ▲ Intake Point (Plan)
 - Canal (Plan)
 - Beneficiary Area
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 - Kecamatan Boundary
- Land Use/ Land Cover**
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Contour Line (EL.m)

- Every 5m (til EL.50m)
- Every 25m



Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III),
Ministry of Environment Forestry, and JICA Project team



LEGEND

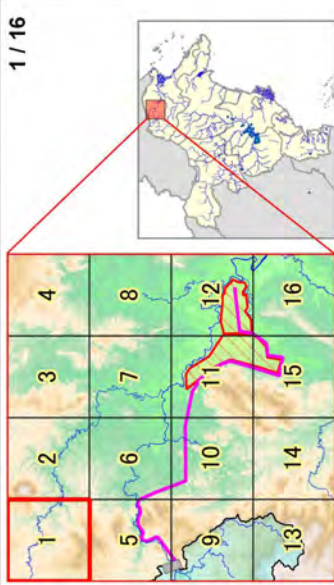
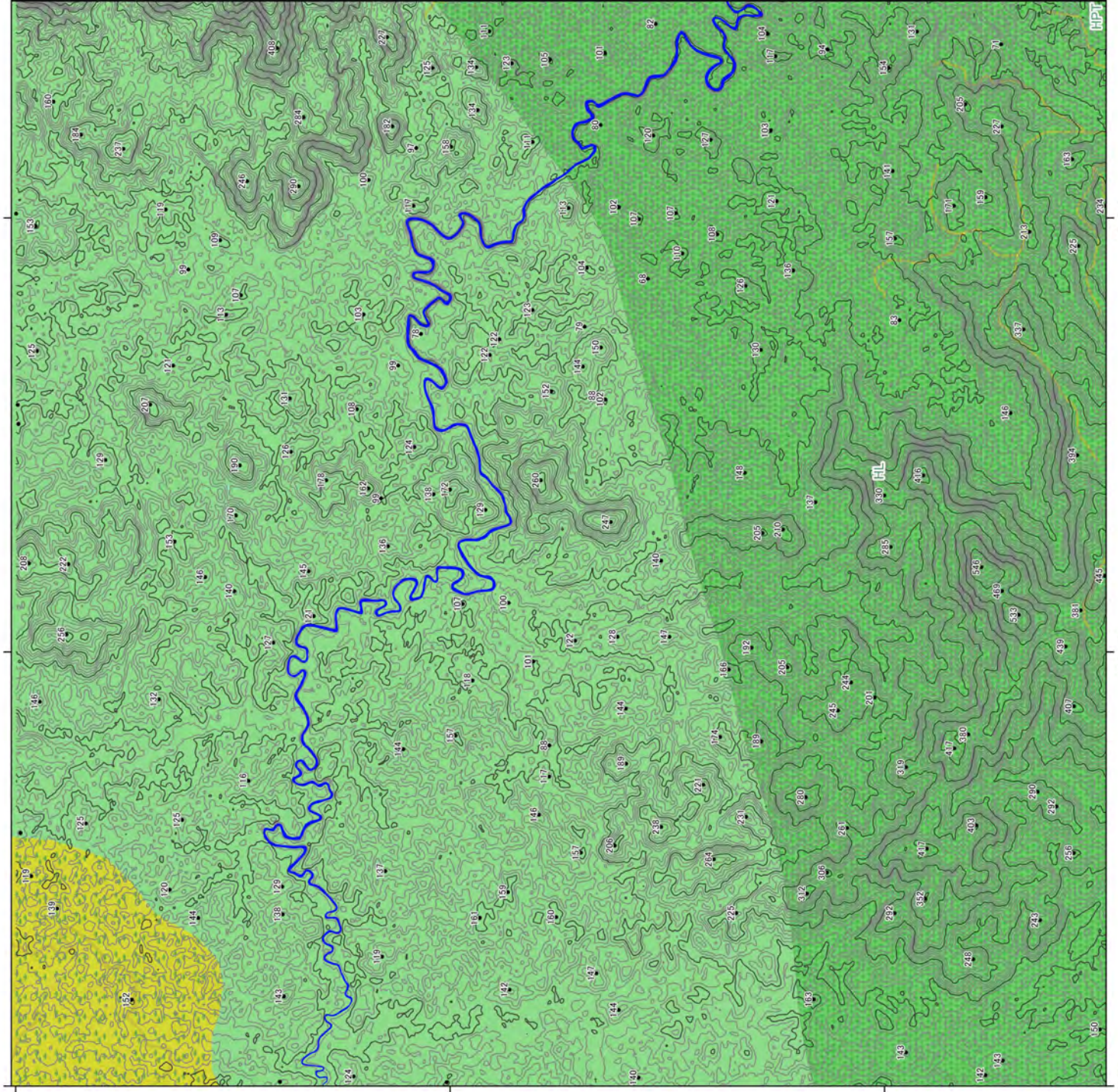
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Contour Line (EL.m)

- Every 5m (til EL.50m)
- Every 25m



Source: Ministry of Public Works and Housing (DILL and BWS Kalimantan III), Ministry of Environment Forestry, and JICA Project team



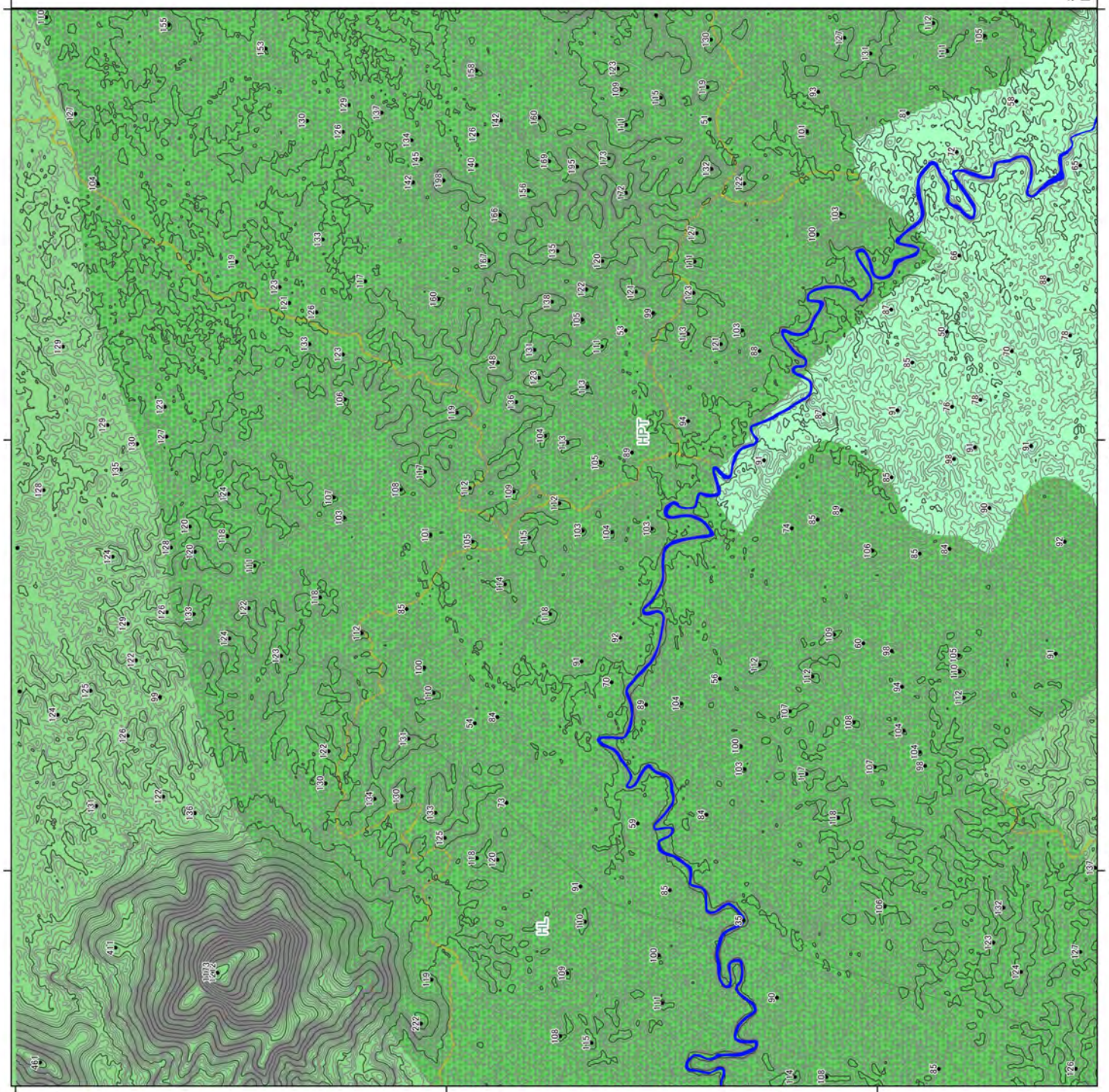
LEGEND

- Intake Point (Plan)
 - Canal (Plan)
 - Beneficiary Area
 - Road
 - River Line
 - Kecamatan Boundary
- Land Use/ Land Cover**
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 - Protection Forest (HL)
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Contour Line (EL.m)

- Every 10m
- Every 50m

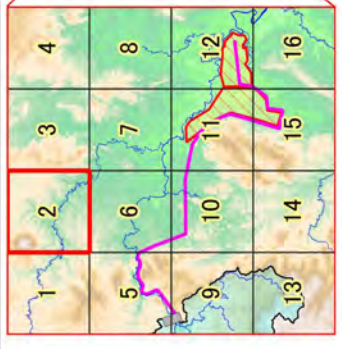




116.90°E

116.95°E

117.00°E



LEGEND

- Intake Point (Plan)
- Canal (Plan)
- Beneficiary Area
- Road
- River Line
- Kecamatan Boundary

Land Use/ Land Cover

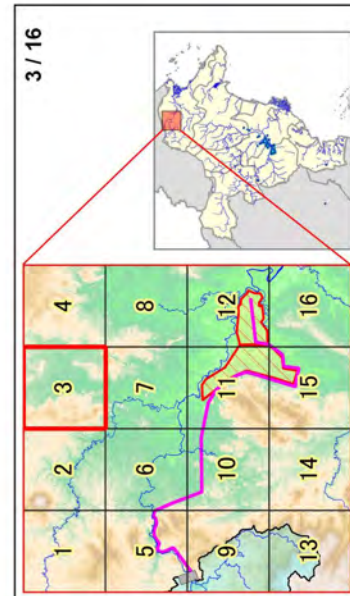
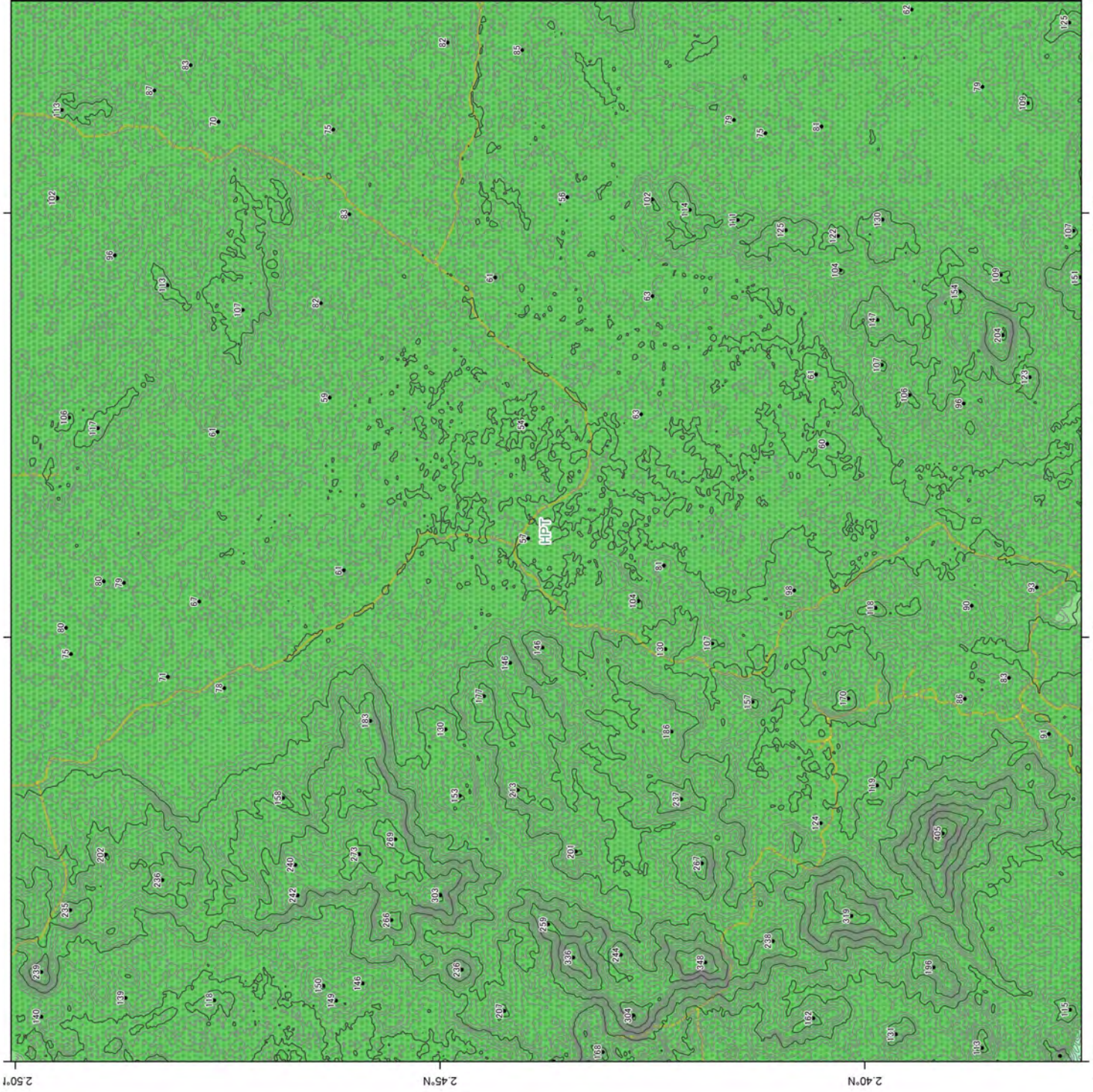
- Dryland Bush or
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- Lowland with Bush
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- Non-Developable Forest:
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- Limited Production Forest (HPT)
- Protection Forest (HL)
- Conservation Forest (KSA/KPA)

Contour Line (EL.m)

- Every 10m
- Every 50m





























Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
 Ministry of Environment Forestry, and JICA Project Team



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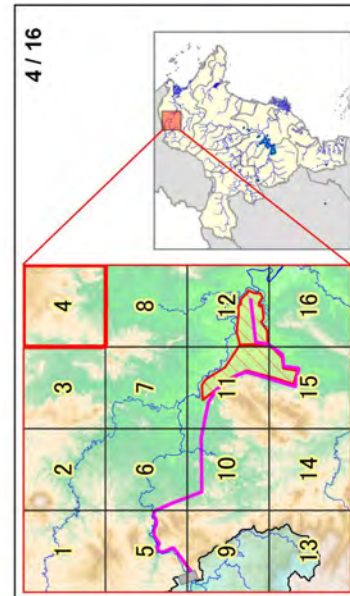
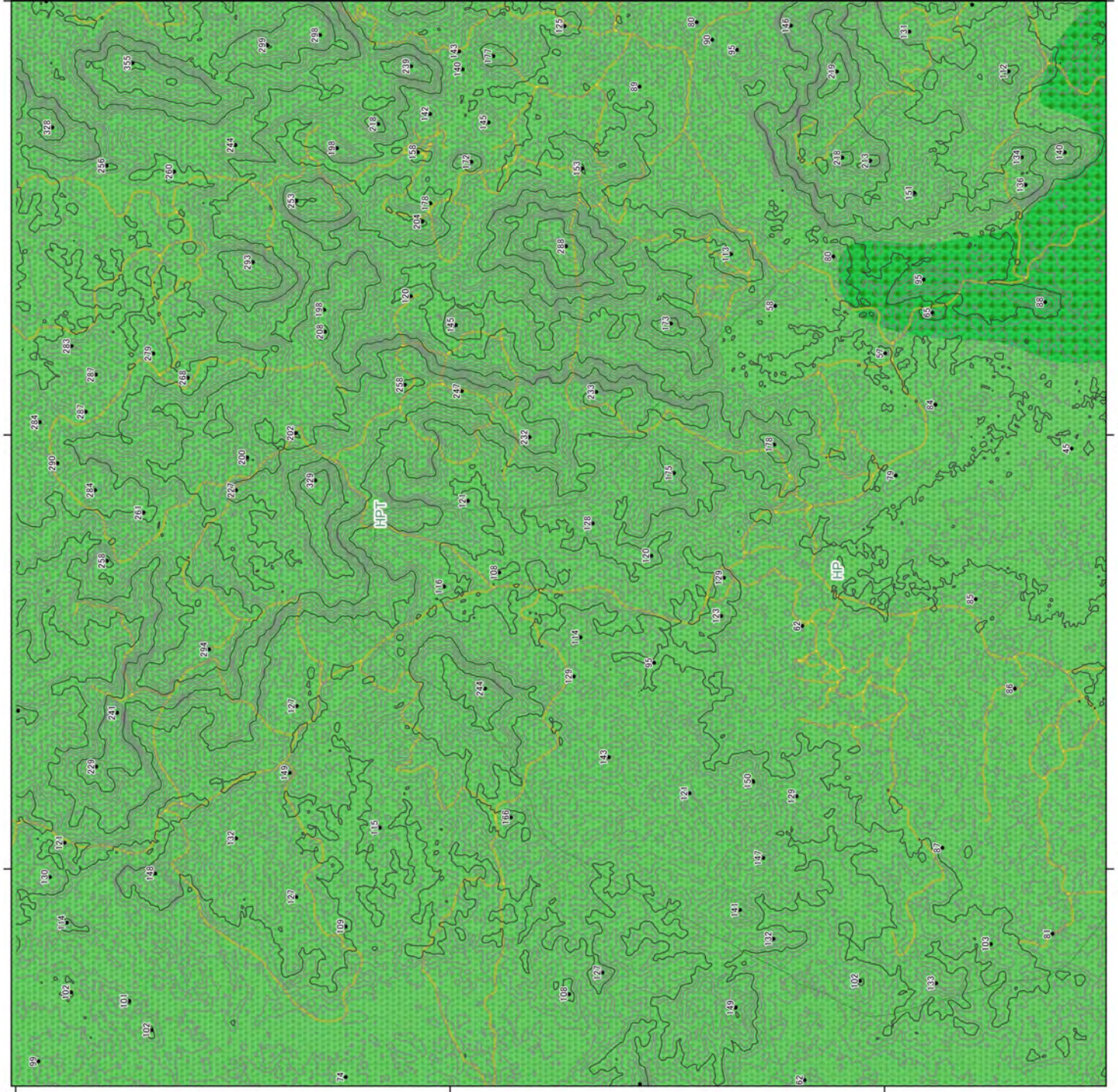
LEGEND

-  Intake Point (Plan)
 -  Canal (Plan)
 -  Beneficiary Area
 -  Road
 -  River Line
 -  Kecamatan Boundary
- Land Use/ Land Cover**
-  Dryland Bush or
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 -  Lowland Forest
 -  Lake
 -  Lowland
 -  Lowland with Bush
 -  Mining
 -  Paddy Field
 -  Fishpond
 -  Plantation
 -  Open Land
 -  Residential Area
 -  Non-Developable Forest:
 -  Production Forest (HP)
 -  Limited Production Forest (HPT)
 -  Protection Forest (HL)
 -  Conservation Forest (KSA/KPA)
- Contour Line (EL.m)**
-  Every 10m
 -  Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team

2.50°N 2.45°N 2.40°N 117.00°E 117.05°E 117.10°E



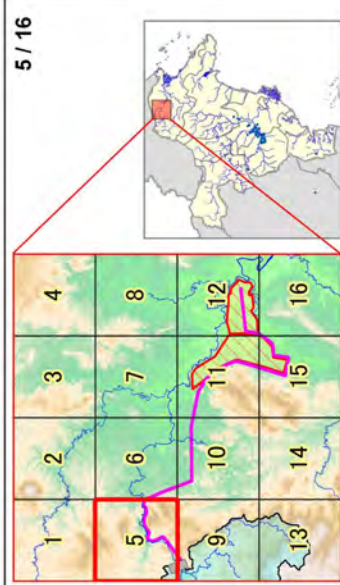
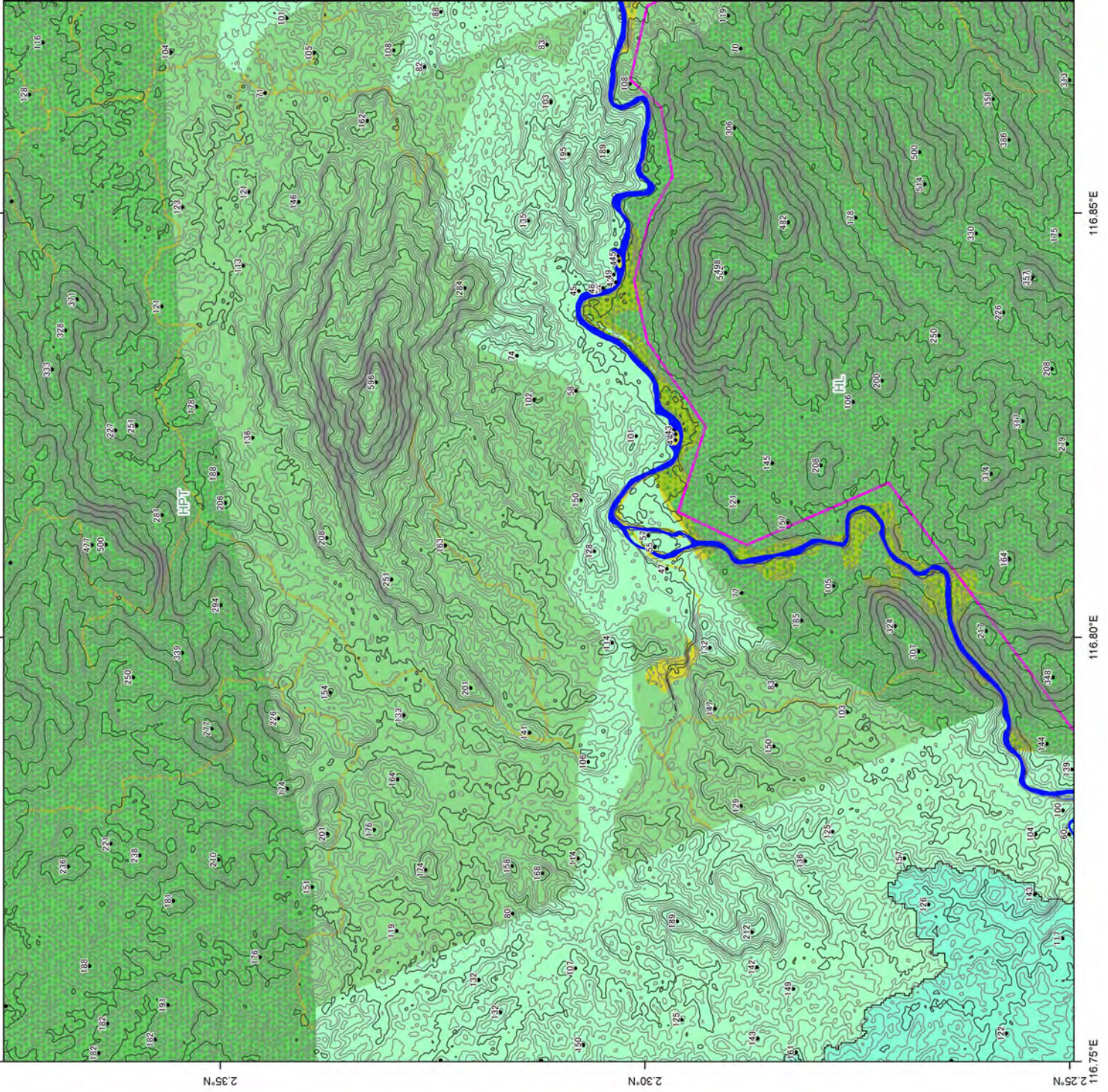
LEGEND

- Intake Point (Plan)
 - Canal (Plan)
 - Beneficiary Area
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 - River Line
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 - Conservation Forest (KSA/KPA)

Contour Line (EL.m)

- Every 10m
- Every 50m





LEGEND

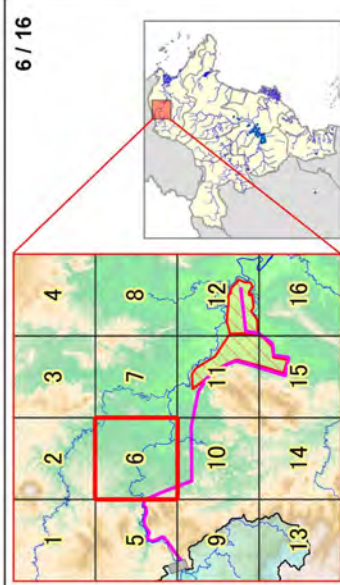
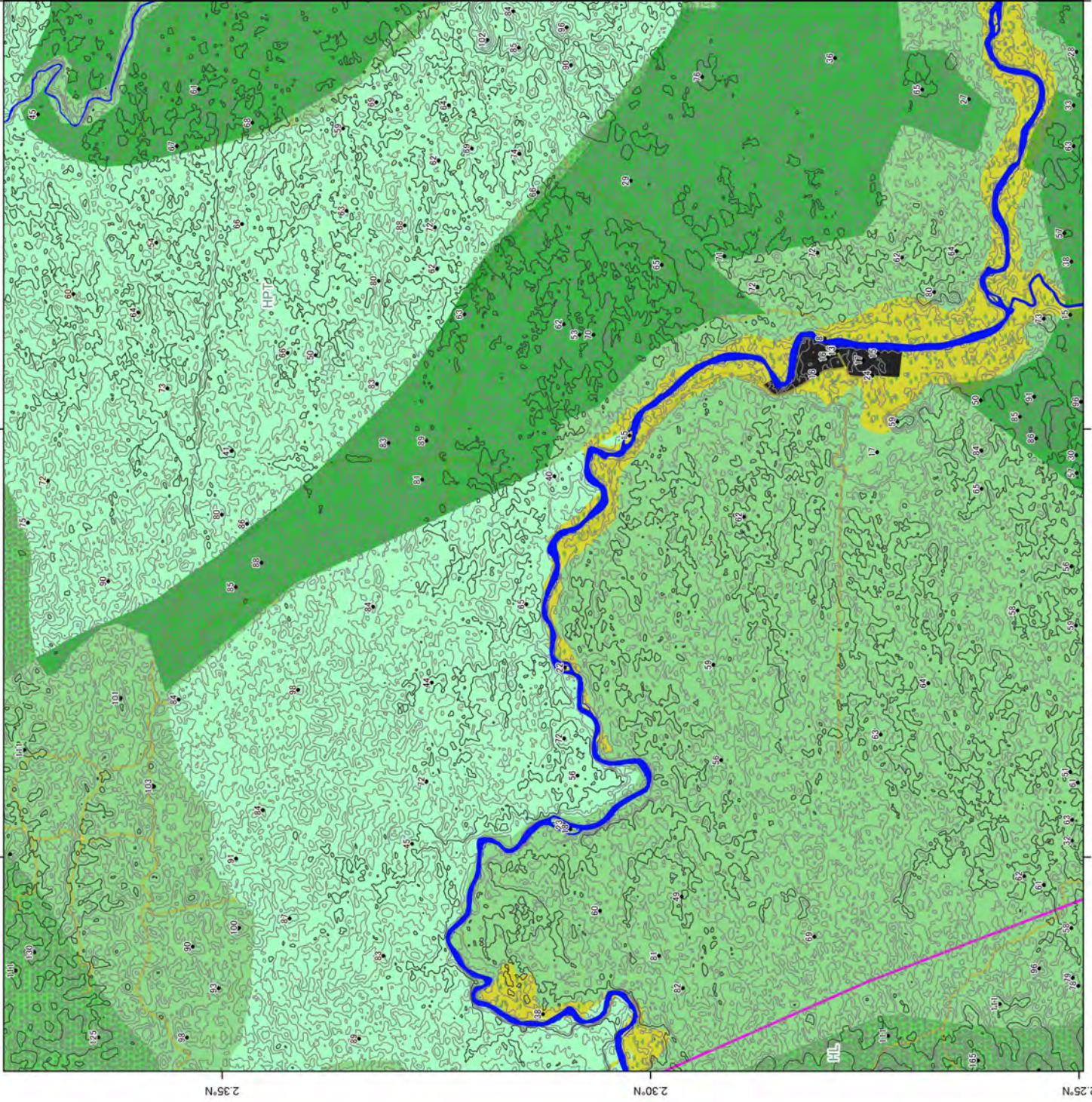
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Contour Line (EL.m)

- Every 10m
- Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III), Ministry of Environment Forestry, and JICA Project Team



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LEGEND

- Intake Point (Plan)
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Contour Line (EL.m)

- Every 10m
- Every 50m



2.35°N

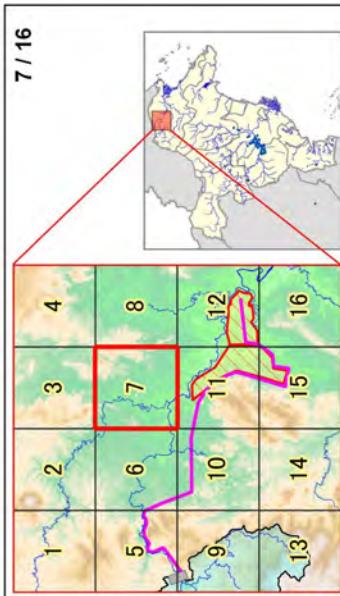
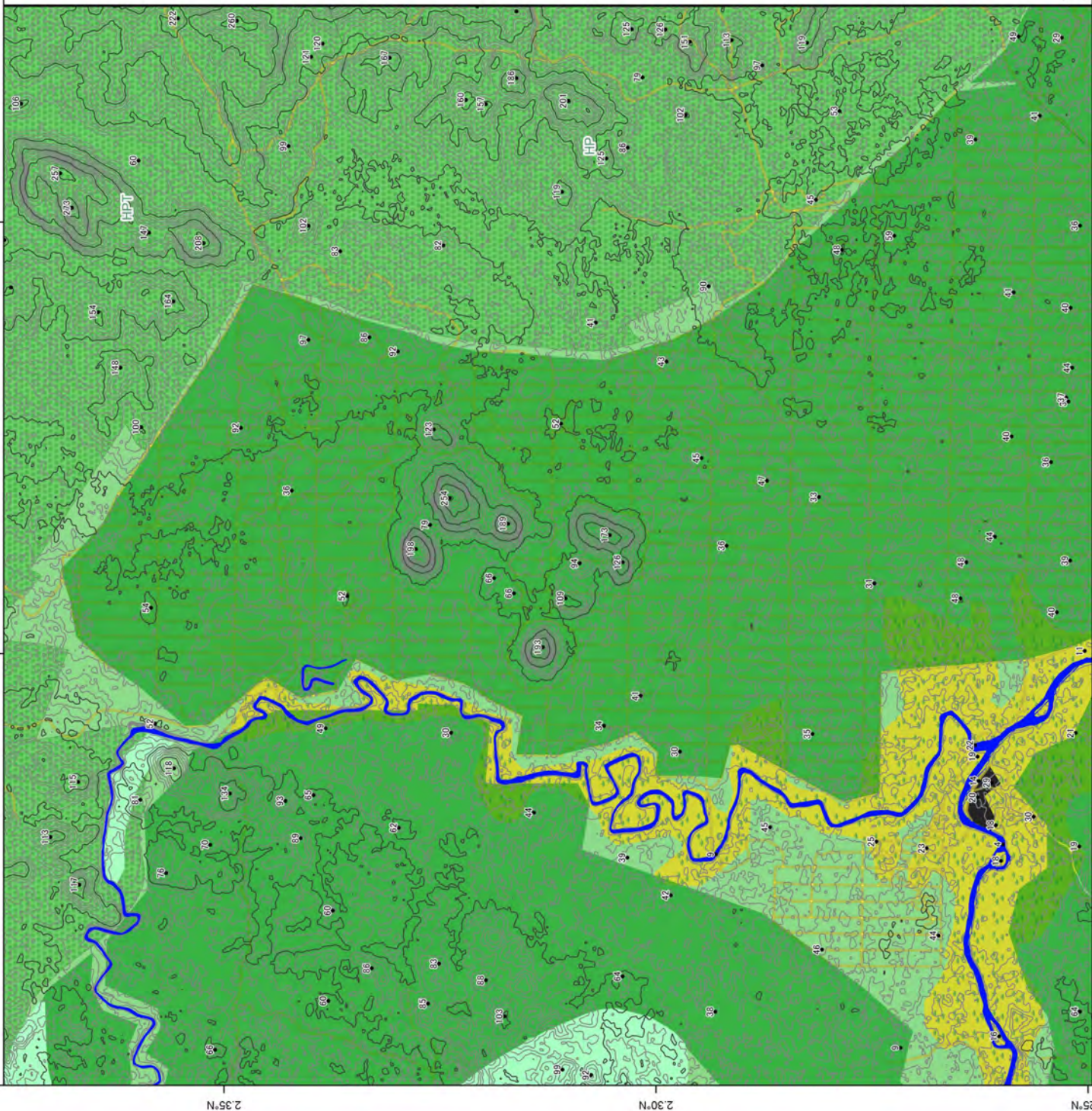
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2.25°N

116.90°E

116.95°E

117.00°E



LEGEND

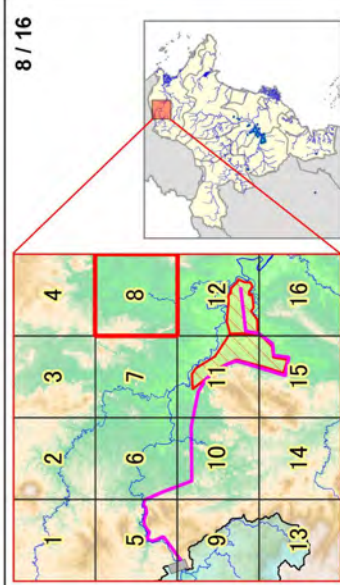
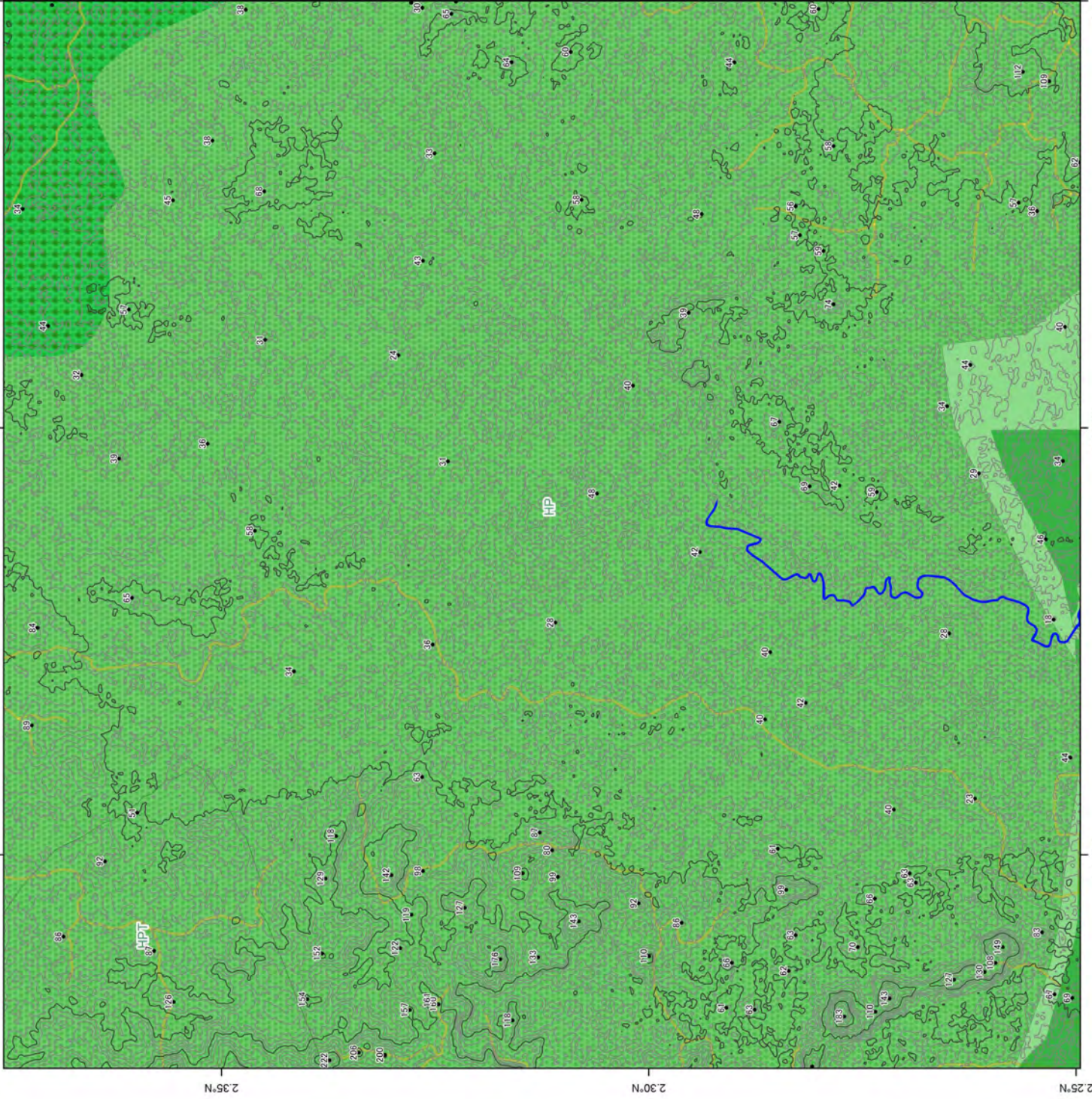
- Intake Point (Plan)
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Contour Line (EL.m)

- Every 10m
- Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team



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LEGEND

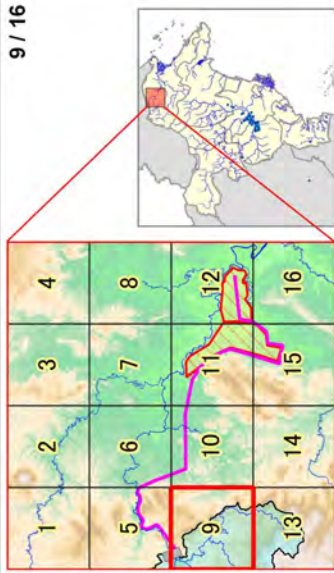
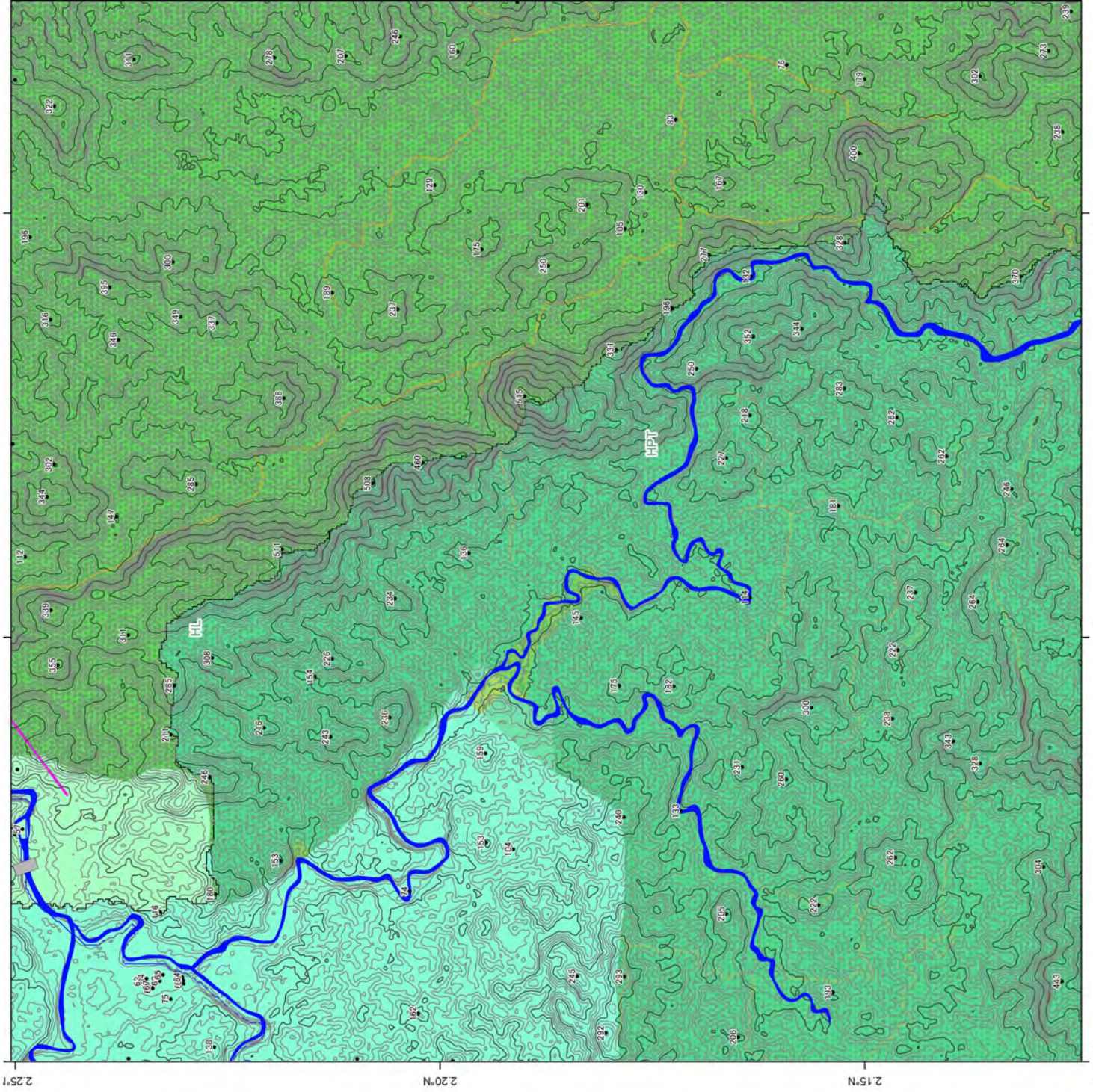
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Contour Line (EL.m)

- Every 10m
- Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team



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LEGEND

- Intake Point (Plan)
 - Canal (Plan)
 - Beneficiary Area
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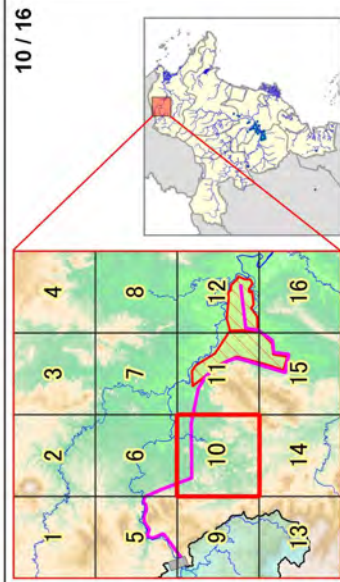
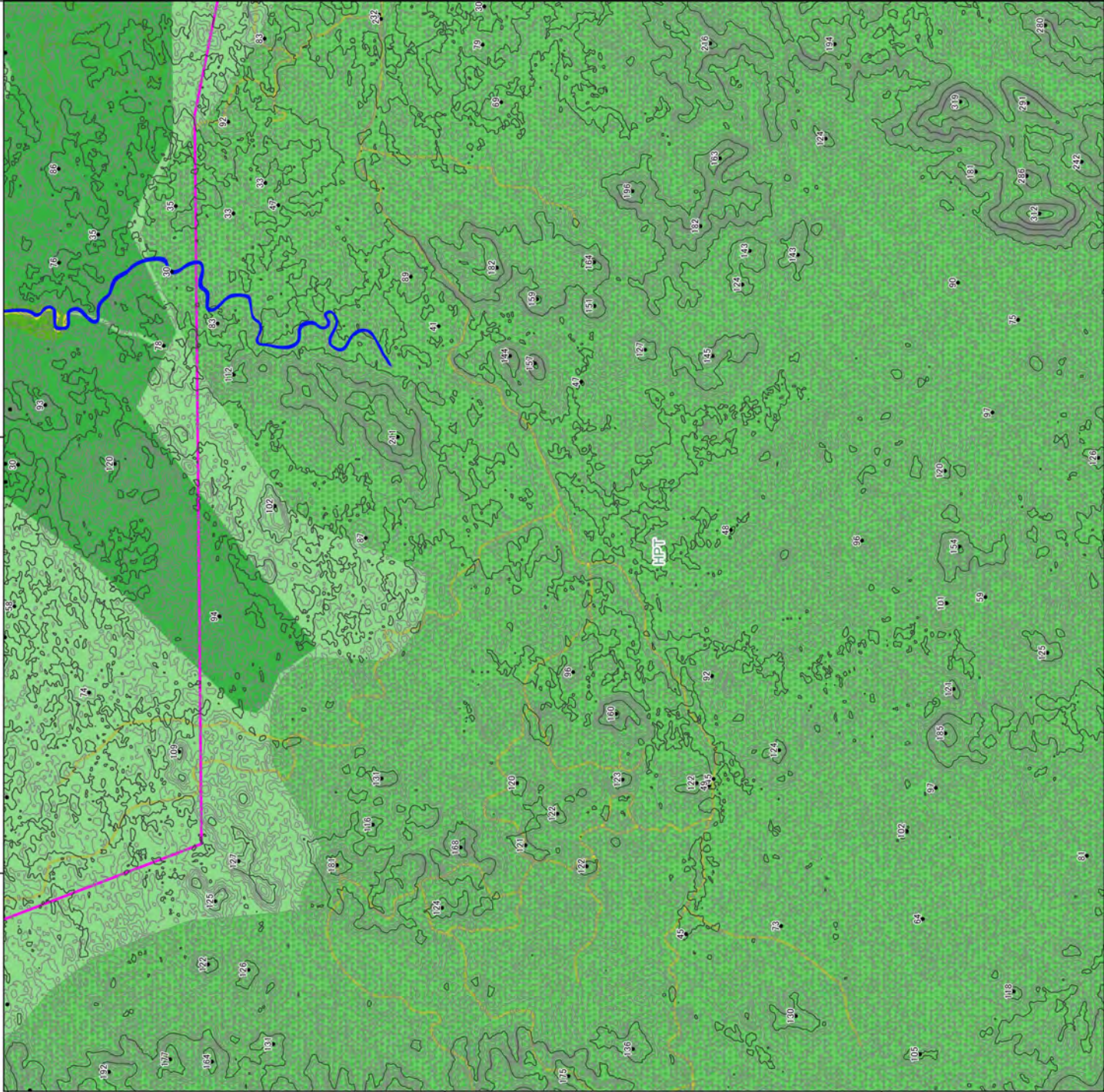
Contour Line (EL.m)

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Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team

2.25°N 2.20°N 2.15°N 116.75°E 116.80°E 116.85°E



LEGEND

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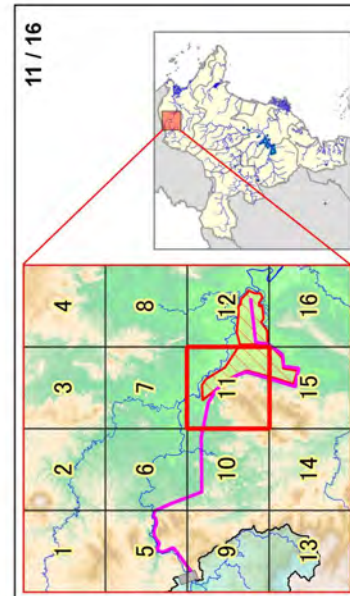
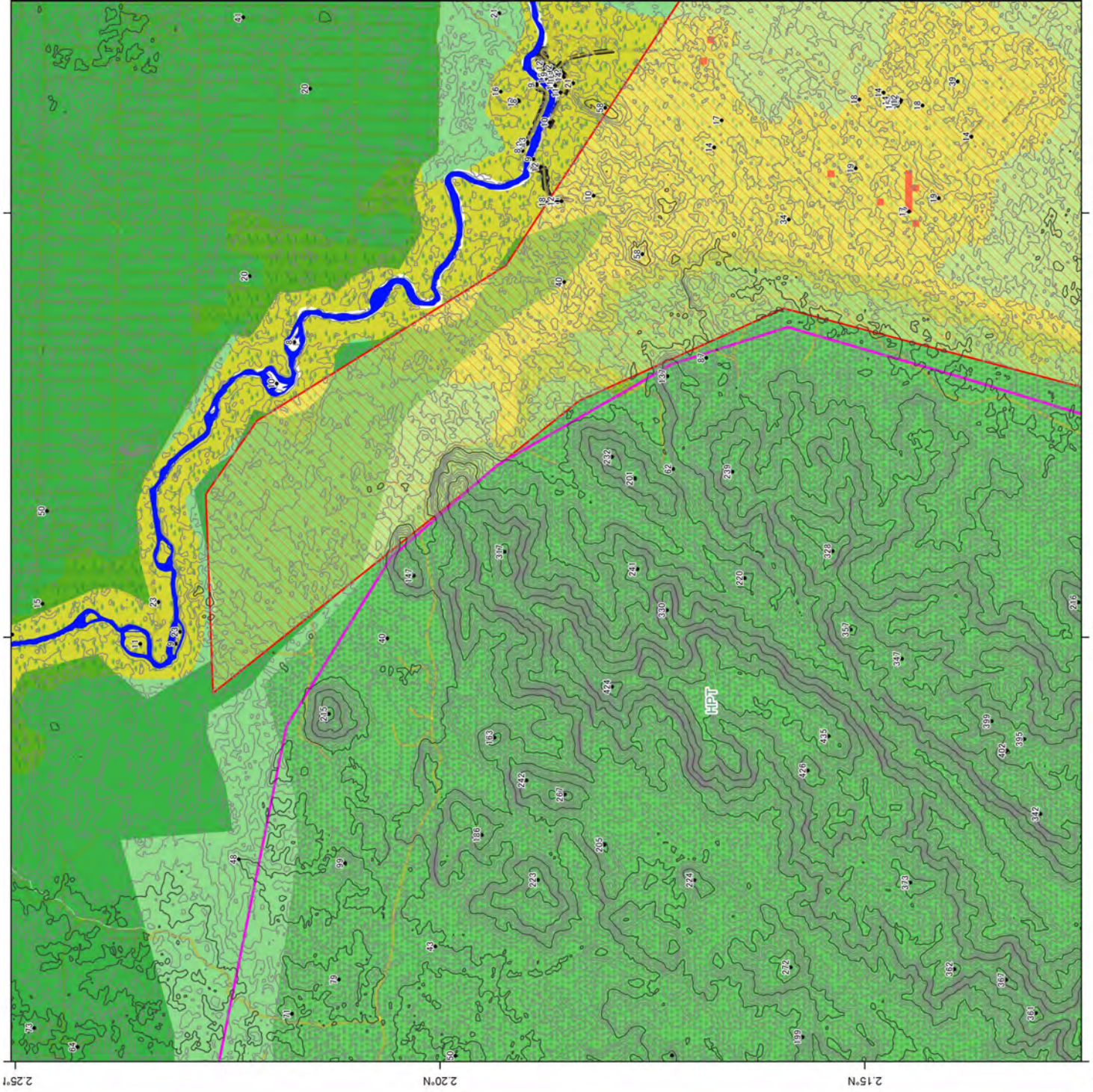
Contour Line (EL.m)

- Every 10m
- Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team

2.25°N 2.20°N 2.15°N 116.90°E 116.95°E 117.00°E



LEGEND

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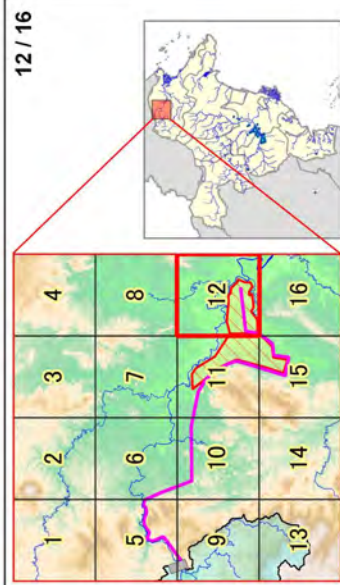
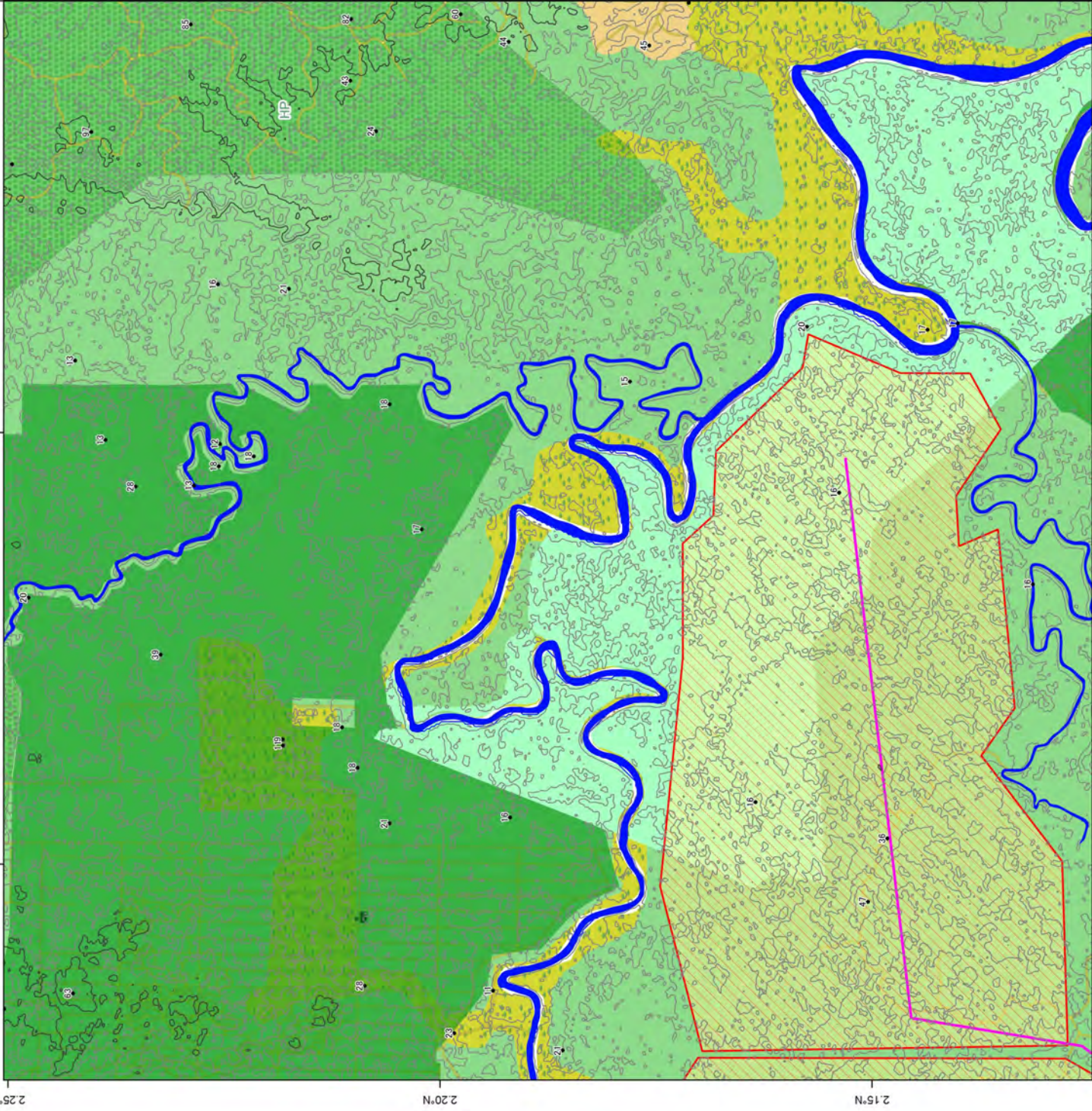
Contour Line (EL.m)

- Every 10m
- Every 50m



Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team

2.25°N 2.20°N 2.15°N 117.00°E 117.05°E 117.10°E



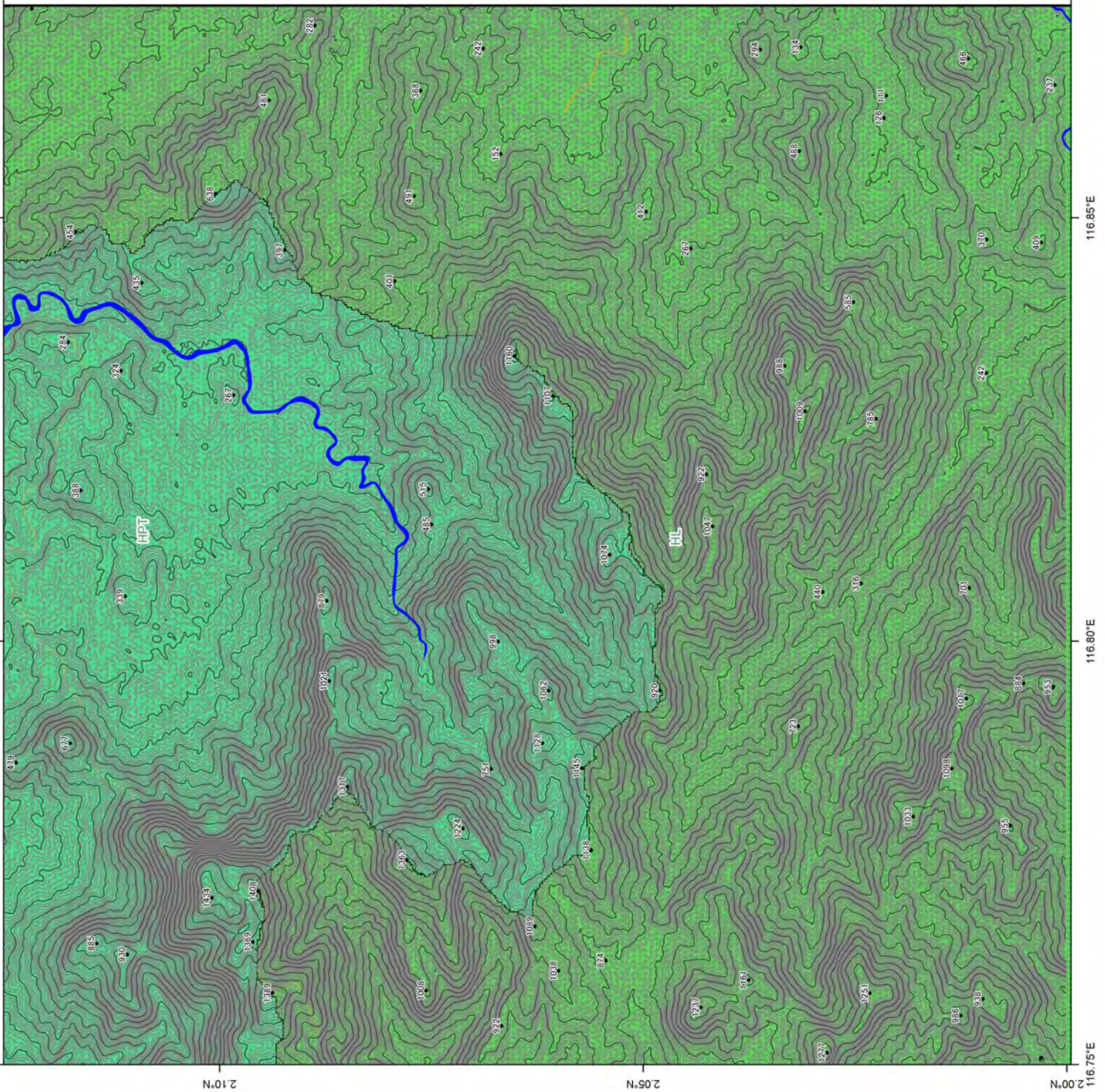
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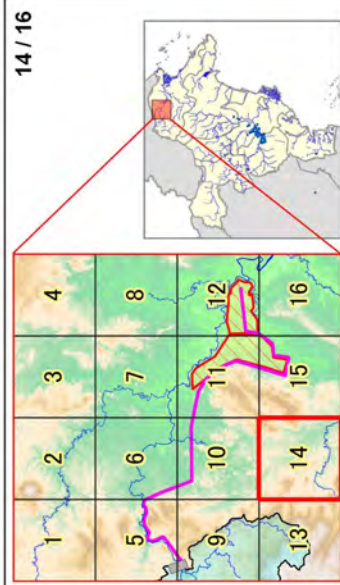
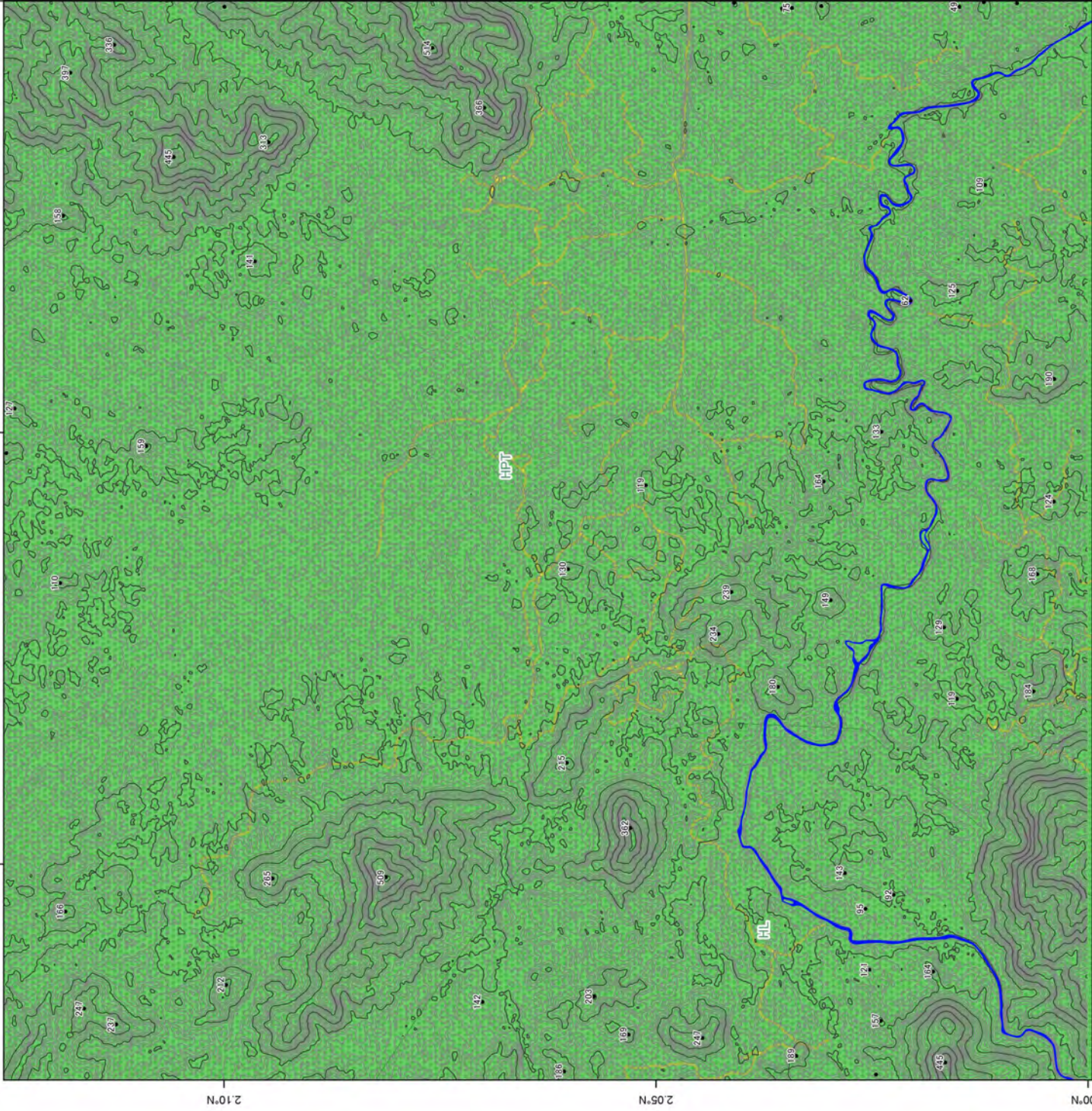
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Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team

2.25°N 2.20°N 2.15°N 117.15°E 117.20°E 117.25°E





LEGEND

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Contour Line (EL.m)

- Every 10m
- Every 50m



2.10°N

2.05°N

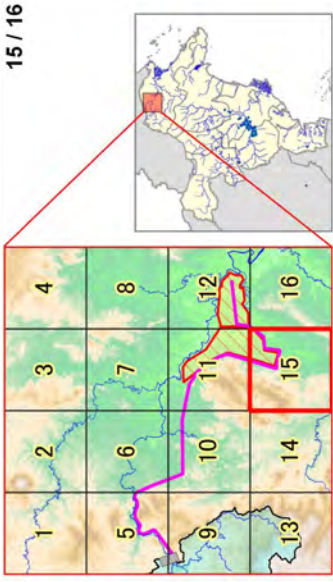
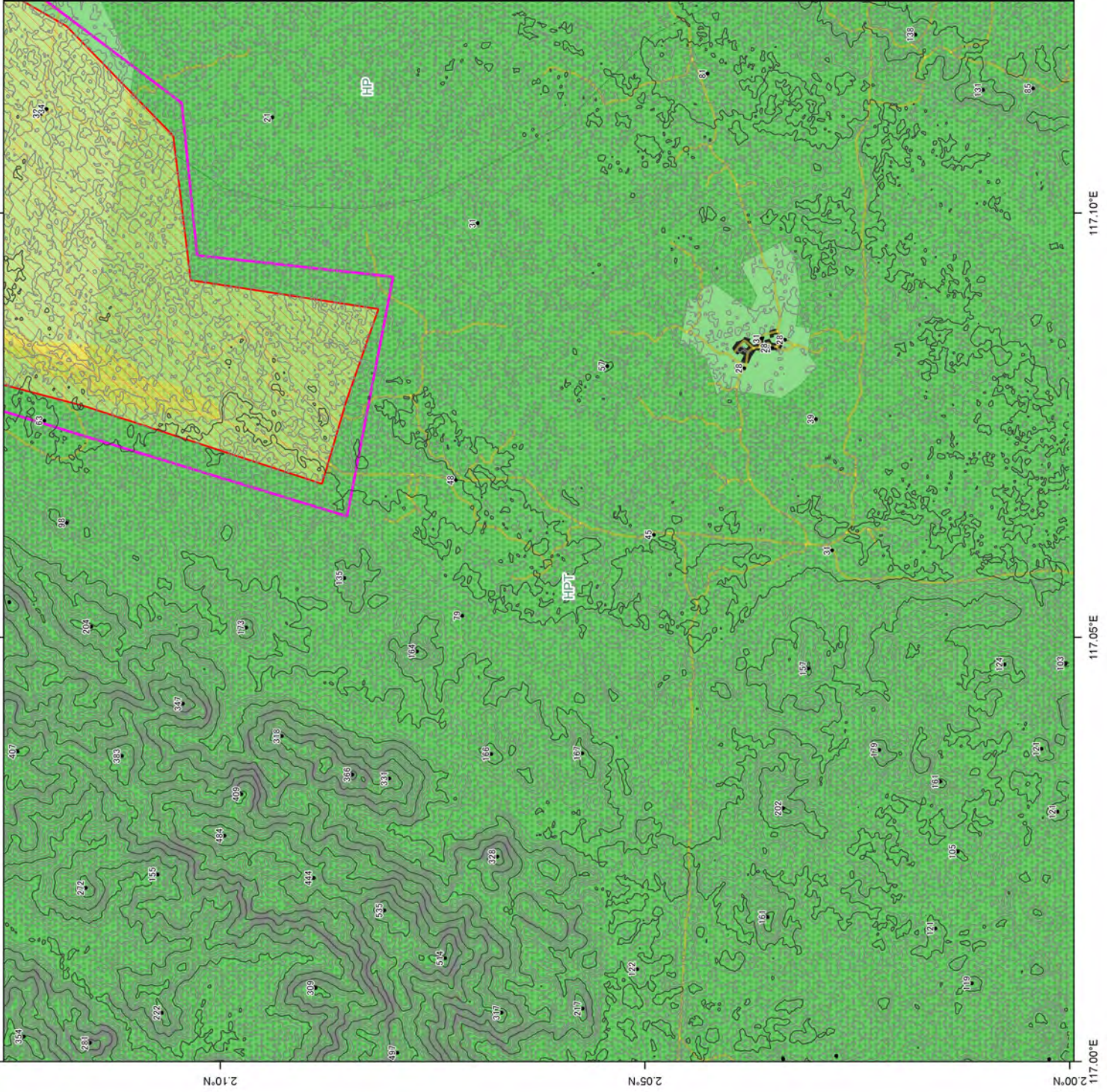
2.00°N

116.90°E

116.95°E

117.00°E

Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
Ministry of Environment Forestry, and JICA Project Team



LEGEND

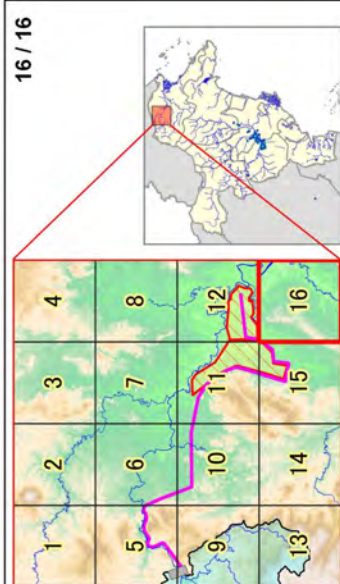
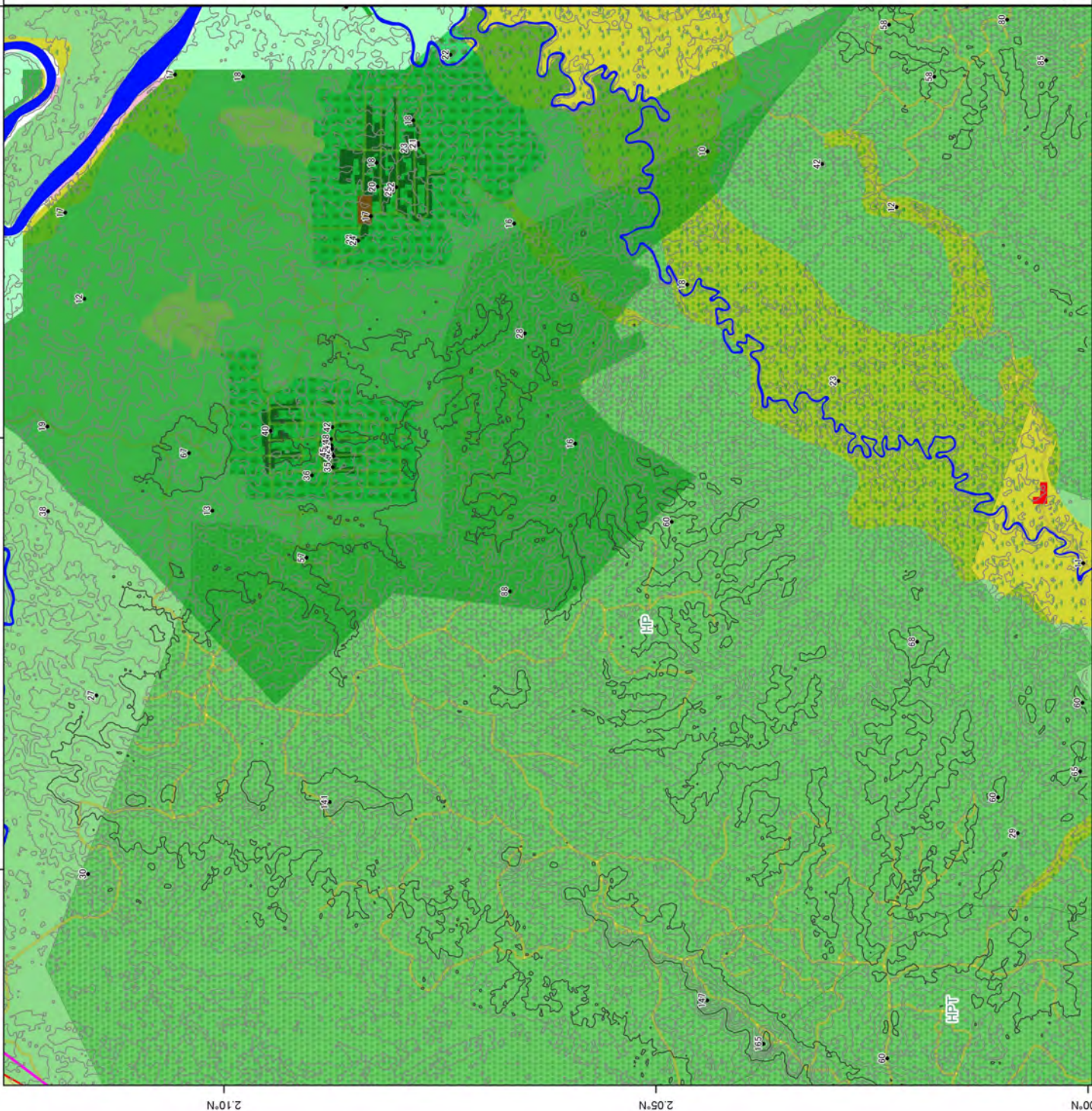
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Source: Ministry of Public Works and Housing (DILL and BWS Kallimantan III),
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2.10°N

2.05°N

2.00°N

117.25°E

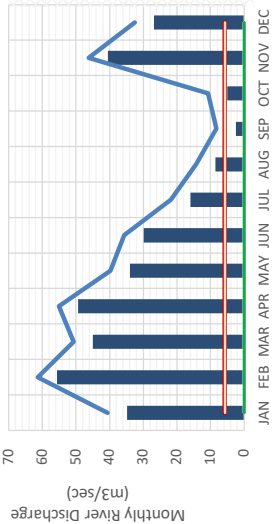
117.20°E

117.15°E

Calculation Sheet on Water Potential by DI (1 / 4)

Irrigation Scheme Name: KT-1		Water Source: Nyuatan												
		DI Watershed Area: 708 km ² Service Area: 3,258 ha												
(Unit)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources														
1.1	Rainfall P _{ave} (mm)	296	283	272	306	309	244	210	198	166	229	361	338	3,212
1.2	Rainfall P _{80%} (mm)	222	196	196	221	221	140	100	86	82	133	261	249	2,106
1.3	Discharge Q _{ave} (m ³ /sec)	54.32	88.68	70.37	76.34	55.33	61.96	45.61	32.83	16.80	18.47	63.94	44.14	52.07
1.4	Discharge Q _{80%} (m ³ /sec)	40.59	61.40	50.73	55.08	39.71	35.63	21.72	14.27	8.24	10.71	46.28	32.50	34.50
2 Water Demand														
2.1	RKI													
	Population (10 ³ person)	26	26	26	26	26	26	26	26	26	26	26	26	-
	Demand (m ³ /sec)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
2.2	Fish Pond													
	Pond Area (ha)	713	713	713	713	713	713	713	713	713	713	713	713	-
	Demand (m ³ /sec)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2.3	Livestock													
	Demand (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.4	River Maintenance													
	Demand (Q _{MIN5%}) (m ³ /sec)	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65
2.5	Irrigatoin (Service Area: 3,258 ha)													
	Irrigated Plantation Area (ha)	2,883	2,883	2,883	2,883	2,883	2,883	2,883	2,883	2,883	2,883	2,883	2,883	-
	Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
	Demand for Plantation (m ³ /sec)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	-
	Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
	Demand (Net) (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Water Balance (m ³ /sec)	34.85	55.65	44.98	49.34	33.96	29.88	15.98	8.52	2.50	4.96	40.54	26.75	28.76
4	Potential Area													
4.1	Case 1 (Paddy-Paddy)													
	Unit Water Demand of Paddy (m ³ /sec/1000ha)	0.52	0.59	1.02	0.24	0.49	0.62	-	-	-	-	1.04	0.08	-
	Potential Area (ha)	67,260	94,278	44,029	204,412	69,586	48,113	-	-	-	-	39,033	326,079	-

Available Water Resources: 1,088 MCM
Potential Water Resources: 907 MCM



Annual Water Balance

Calculation Sheet on Water Potential by DI (2 / 4)

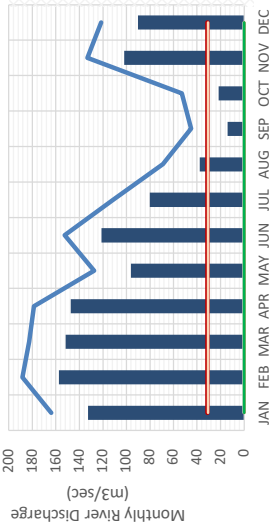
Irrigation Scheme Name: KT-2												Water Source: Belayan											
DI Watershed Area: 6,030 km ²												Service Area: 32,707 ha											
(Unit)																							
1 Available Water Resources																							
1.1 Rainfall P _{ave} (mm)												278											
1.2 Rainfall P _{80%} (mm)												199											
1.3 Discharge Q _{ave} (m ³ /sec)												438.60											
1.4 Discharge Q _{80%} (m ³ /sec)												313.84											
2 Water Demand																							
2.1 RKI																							
Population (10 ³ person)												224											
Demand (m ³ /sec)												0.75											
2.2 Fish Pond																							
Pond Area (ha)												6,075											
Demand (m ³ /sec)												0.05											
2.3 Livestock																							
Demand (m ³ /sec)												0.01											
2.4 River Maintenance																							
Demand (Q _{MIN5%}) (m ³ /sec)												55.81											
2.5 Irrigatoin (Service Area: 32,707 ha)																							
Irrigated Plantation Area (ha)												24,554											
Irrigated Palawija Planted Area (ha)												0											
Demand for Plantation (m ³ /sec)												3.01											
Demand for Palawija Production (m ³ /sec)												0.00											
Demand (Net) (m ³ /sec)												0.00											
3 Water Balance																							
Water Balance (m ³ /sec)												257.23											
4 Potential Area																							
4.1 Case 1 (Paddy-Paddy) (m ³ /sec/1000ha)												0.77											
Unit Water Demand of Paddy Potential Area (ha)												334,861											
												374,537											
												242,411											
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Calculation Sheet on Water Potential by DI (3 / 4)

Irrigation Scheme Name: KT-3												Water Source: Kelimjau													
DI Watershed Area: 3,190 km ²												Service Area: 13,413 ha													
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual												
1 Available Water Resources																									
1.1 Rainfall P _{ave} (mm)	278	214	236	240	237	214	193	162	189	242	241	287	2,732												
1.2 Rainfall P _{80%} (mm)	192	129	151	154	152	129	110	89	96	140	161	200	1,703												
1.3 Discharge Q _{ave} (m ³ /sec)	236.94	312.87	284.76	278.44	197.79	253.26	195.10	125.27	88.81	90.86	198.78	174.72	202.21												
1.4 Discharge Q _{80%} (m ³ /sec)	163.70	188.39	182.87	178.58	127.24	152.41	111.21	68.92	45.12	52.78	133.24	121.35	126.64												
2 Water Demand																									
2.1 RKI																									
Population (10 ³ person)	118	118	118	118	118	118	118	118	118	118	118	118	-												
Demand (m ³ /sec)	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39												
2.2 Fish Pond																									
Pond Area (ha)	3,214	3,214	3,214	3,214	3,214	3,214	3,214	3,214	3,214	3,214	3,214	3,214	-												
Demand (m ³ /sec)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03												
2.3 Livestock																									
Demand (m ³ /sec)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01												
2.4 River Maintenance																									
Demand (Q _{MIN5%}) (m ³ /sec)	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73												
2.5 Irrigatoin (Service Area: 13,413 ha)																									
Irrigated Plantation Area (ha)	12,990	12,990	12,990	12,990	12,990	12,990	12,990	12,990	12,990	12,990	12,990	12,990	-												
Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-												
Demand for Plantation (m ³ /sec)	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	-												
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-												
Demand (Net) (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
3 Water Balance																									
(m ³ /sec)	132.54	157.23	151.71	147.43	96.08	121.25	80.05	37.76	13.96	21.62	102.08	90.19	95.49												
4 Potential Area																									
4.1 Case 1 (Paddy-Paddy) (m ³ /sec/1000ha)																									
Unit Water Demand of Paddy Potential Area (ha)	0.64	0.91	1.14	0.44	0.66	0.61	-	-	-	-	1.30	0.25	-												
Potential Area (ha)	207,954	172,662	132,585	338,566	144,652	198,804	-	-	-	-	78,389	354,835	-												

Available Water Resources: 3,994 MCM

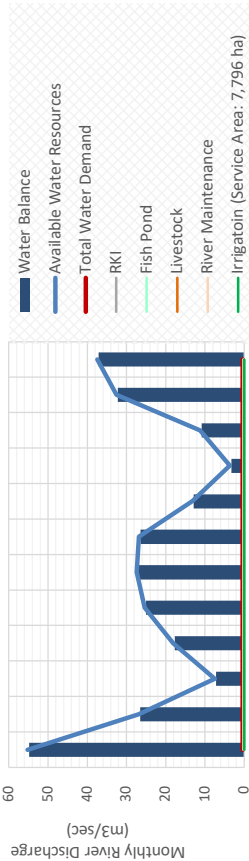
Potential Water Resources: 3,011 MCM



Calculation Sheet on Water Potential by DI (4 / 4)

Irrigation Scheme Name: KT-4		Water Source: Berau												
		DI Watershed Area: 1,210 km ² Service Area: 7,796 ha												
	(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources														
1.1	Rainfall P _{ave}	254	218	213	217	208	209	214	200	227	248	234	257	2,699
1.2	Rainfall P _{80%}	180	144	96	107	148	142	146	115	111	135	130	168	1,624
1.3	Discharge Q _{ave}	78.02	40.61	16.57	36.55	35.60	40.21	39.45	22.88	7.45	20.57	58.48	57.25	37.80
1.4	Discharge Q _{80%}	55.23	26.87	7.50	18.07	25.38	27.39	26.78	13.21	3.65	11.21	32.55	37.45	23.79
2 Water Demand														
2.1	RKI													
	Population	31	31	31	31	31	31	31	31	31	31	31	31	-
	Demand	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
2.2	Fish Pond													
	Pond Area	1,461	1,461	1,461	1,461	1,461	1,461	1,461	1,461	1,461	1,461	1,461	1,461	-
	Demand	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2.3	Livestock													
	Demand	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2.4	River Maintenance													
	Demand (Q _{MIN5%})	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2.5	Irrigatoin (Service Area: 7,796 ha)													
	Irrigated Plantation Area	4,927	4,927	4,927	4,927	4,927	4,927	4,927	4,927	4,927	4,927	4,927	4,927	-
	Irrigated Palawija Planted Area	0	0	0	0	0	0	0	0	0	0	0	0	-
	Demand for Plantation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
	Demand for Palawija Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
	Demand (Net)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Water Balance	54.84	26.49	7.12	17.69	25.00	27.00	26.40	12.83	3.27	10.82	32.17	37.07	23.40
4 Potential Area														
4.1	Case 1 (Paddy-Paddy)													
	Unit Water Demand of Paddy	0.46	0.68	-	1.22	0.51	0.80	0.73	-	-	-	1.15	0.17	-
	Potential Area	120,085	38,957	-	14,493	48,723	33,947	36,145	-	-	-	27,952	216,125	-

Available Water Resources: 750 MCM
Potential Water Resources: 738 MCM

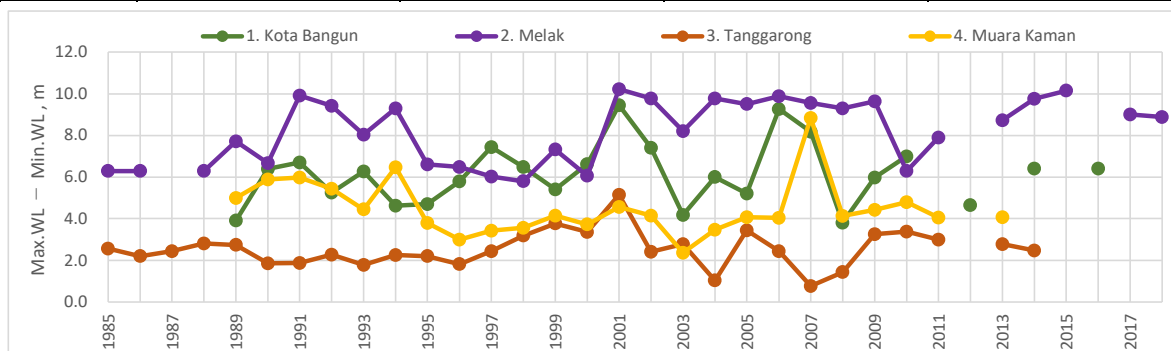


Monthly Water Balance

Annual Water Balance

Maximum Annual Water Level at Each Water Gauging Station

ID	1		2		3		4	
Name	Duga Air Kota Bangun		Duga Air Melak		Duga Air Tenggarong		Duga Air Muara Kaman	
Longitude	116.5865		115.8216		116.9917		116.7182	
Latitude	-0.2686		-0.2299		-0.4138		-0.1602	
Elevation	2.321		8.512		1.581		2.168	
Year	Date	Max WL.	Date	Max WL.	Date	Max WL.	Date	Max WL.
1985			17/06/1985	17.16	13/08/1985	4.62		
1986			17/06/1986	17.16	29/04/1986	4.8		
1987					13/04/1987	4.56		
1988			17/06/1988	17.16	12/12/1988	4.93		
1989	31/12/1989	25.58	28/01/1989	18.73	12/12/1989	4.97	01/01/1990	9.48
1990	02/01/1990	26.13	02/01/1990	17.53	13/05/1990	4.79	02/01/1990	8.91
1991	03/06/1991	26.83	24/05/1991	19.64	17/05/1991	5.11	03/06/1991	9.53
1992	31/12/1992	26.66	11/12/1992	19.02	04/04/1992	4.79	21/12/1992	9.95
1993	03/01/1993	26.69	24/01/1993	19.81	11/01/1993	4.8	03/01/1993	9.65
1994	18/05/1994	26.44	11/05/1994	19.72	26/05/1994	4.91	23/05/1994	9.86
1995	08/05/1995	26.73	18/05/1995	19.68	29/08/1995	5.3	06/05/1995	9.84
1996	23/02/1996	26.53	08/05/1996	20.29	02/03/1996	4.93	27/02/1996	9.71
1997	03/01/1997	25.9	02/04/1997	19.41	01/01/1997	4.63	30/01/1997	9.36
1998	14/08/1998	26.35	08/07/1998	18.86	23/06/1998	6.19	21/11/1998	9.75
1999	18/05/1999	26.34	17/07/1999	19.25	02/03/1999	5	28/04/1999	10.47
2000	07/12/2000	26.05	04/05/2000	19.5	02/05/2000	4.84	24/05/2000	9.82
2001	18/03/2001	27.24	17/02/2001	21.45	26/02/2001	6.63	04/03/2001	10.66
2002	15/04/2002	27.01	12/05/2002	21	24/03/2002	4.83	22/04/2002	9.74
2003	15/06/2003	24.88	10/04/2003	19.9	07/04/2003	5.12	28/04/2003	8.96
2004	17/03/2004	26.56	12/05/2004	21	02/01/2004	4.55	15/03/2004	9.67
2005	19/04/2005	27.68	10/04/2005	21.67	23/05/2005	6.04	03/05/2005	10.55
2006	03/06/2006	27.63	30/06/2006	21.31	30/05/2006	4.81	28/05/2006	10.59
2007	25/05/2007	29.94	07/05/2007	21.55	01/06/2007	4.43	24/06/2007	16.77
2008	02/07/2008	25.58	26/12/2008	21.34	28/11/2008	5.05	01/01/2009	10.71
2009	01/05/2009	26.21	06/02/2009	20.69	11/02/2009	4.43	12/01/2009	10.96
2010	28/11/2010	27.82	19/05/2010	20.84	23/06/2010	5.45	01/06/2010	10.63
2011			06/05/2011	20.88	25/01/2011	4.87	11/05/2011	9.5
2012	20/01/2012	26.7	12/12/2012	11.16				
2013			03/12/2013	17.27	01/07/2013	4.95	31/05/2013	8.69
2014	02/01/2014	25.68	13/01/2014	17.95	27/01/2014	4.37		
2015			12/02/2015	17.75				
2016	02/01/2016	26.58						
2017			12/05/2017	12.67				
2018			30/04/2018	11.12				



Source: BWS Kalimantan III

APPENDIX II-IV:

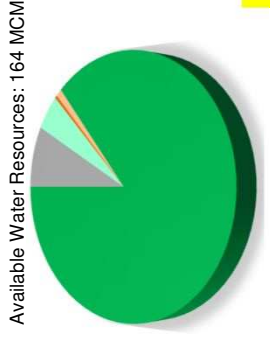
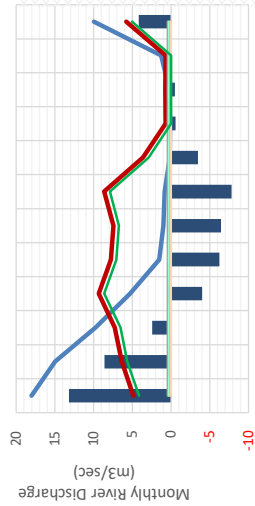
SULAWESI SOUTH PROVINCE (BBWS POMPENGAN JENEBERANG)

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Calculation Sheet on Water Potential by DI (1 / 5)

River Territory ID: DI Kelara Karalloe														
DI Watershed Area: 281 km2						Water Source: Sungai Kelara & Sungai Karalloe Before Improvement								
	(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources														
1.1	Rainfall P _{ave}	320	225	198	124	67	99	40	29	41	80	135	329	1,687
1.2	Rainfall P _{80%}	201	136	137	69	29	32	7	3	6	22	79	209	931
1.3	Discharge Q _{ave}	33.52	30.01	16.51	10.80	3.87	2.92	2.44	0.84	0.45	0.88	4.63	23.12	10.74
1.4	Discharge Q _{80%}	18.04	14.97	9.72	5.31	1.53	0.96	0.83	0.17	0.12	0.22	1.26	9.97	5.22
														0.00
2 Water Demand														
2.1 RKI														
	Population	362	362	362	362	362	362	362	362	362	362	362	362	362
	Domestic Use	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
	Urban Use	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Industry Use	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	Demand	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
2.2 Fish Pond														
	Pond Area	111	111	111	111	111	111	111	111	111	111	111	111	111
	Demand	0.24	0.22	0.24	0.23	0.24	0.23	0.24	0.24	0.23	0.24	0.23	0.24	0.24
2.3 Livestock														
	Cattle/Bufalo	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
	Sheep/Goat	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
	Pig	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	Poultry	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	Demand	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2.4 River Maintenance														
	Demand (Q _{MIN95%})	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2.5 Irrigation (Service Area: 10,000 ha)														
	Irrigated Paddy Planted Area	7,199	7,199	7,199	6,066	5,500	5,500	5,500	1,833	0	0	0	4,799	-
	Irrigated Palawija Planted Area	0	0	0	0	697	1,045	1,045	348	0	0	0	0	-
	Irrigated Sugarcane Planted Area	0	0	0	0	0	0	0	0	0	0	0	0	-
	Demand for Paddy Production	4.14	5.68	6.55	8.62	6.95	6.55	7.74	2.84	0.00	0.00	0.00	5.07	-
	Demand for Palawija Production	0.00	0.00	0.00	0.00	0.10	0.18	0.16	0.06	0.00	0.00	0.00	0.00	-
	Demand for Sugarcane Production	4.14	5.68	6.55	8.62	7.05	6.73	7.91	2.90	0.00	0.00	0.00	5.07	-
	Demand (Net)	4.14	5.68	6.55	8.62	7.05	6.73	7.91	2.90	0.00	0.00	0.00	5.07	4.55
3 Water Balance														
	Water Balance	13.17	8.58	2.45	(4.03)	(6.25)	(6.48)	(7.80)	(3.46)	(0.60)	(0.50)	0.54	4.17	(0.06)



Available Water Resources: 164 MCM

RKI: 13 MCM (7.90 %)
 Fish Pond: 7 MCM (4.53 %)
 Livestock: 1 MCM (0.38 %)
 Maintenance: 2 MCM (1.01 %)
 Irrigation: 144 MCM (87.29 %)
 Potential: -2 MCM (-1.11 %)

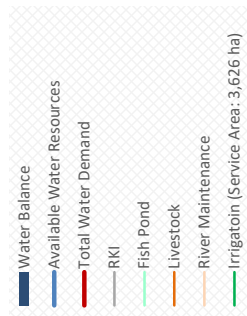
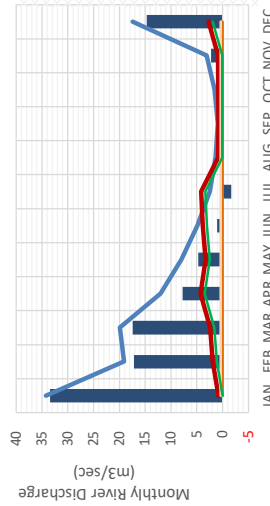
Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

Annual Water Balance

Monthly Water Balance

Calculation Sheet on Water Potential by DI (2 / 5)

River Territory ID: DI Lelokopancing			DI Watershed Area: 278 km2			Water Source: Sungai Lelokopancing Before Improvement							
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P _{ave} (mm)	347	264	219	143	70	99	41	29	43	82	149	342	1,828
1.2 Rainfall P _{80%} (mm)	243	169	145	95	40	34	9	4	7	28	85	240	1,099
1.3 Discharge Q _{ave} (m ³ /sec)	46.93	38.25	30.35	20.27	14.65	11.17	7.00	5.31	3.73	6.10	13.83	39.31	19.66
1.4 Discharge Q _{80%} (m ³ /sec)	34.25	19.11	19.87	12.01	8.04	4.94	2.49	1.32	0.94	1.55	3.10	17.42	10.40
-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	121	121	121	121	121	121	121	121	121	121	121	121	121
Domestic Use (m ³ /sec)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Urban Use (m ³ /sec)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industry Use (m ³ /sec)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Demand (m ³ /sec)	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
2.2 Fish Pond													
Pond Area (ha)	91	91	91	91	91	91	91	91	91	91	91	91	91
Demand (m ³ /sec)	0.20	0.18	0.20	0.19	0.20	0.19	0.20	0.20	0.19	0.20	0.19	0.20	0.19
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Sheep/Goat (10 ³ tails)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Pig (10 ³ tails)	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Poultry (10 ⁶ tails)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Demand (m ³ /sec)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2.4 River Maintenance													
Demand (Q _{MIN95%}) (m ³ /sec)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
2.5 Irrigatoin (Service Area: 3,626 ha)													
Irrigated Paddy Planted Area (ha)	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463	2,463
Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	0
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	0
Demand for Paddy Production (m ³ /sec)	0.00	1.12	1.64	3.47	2.49	3.07	3.36	0.04	0.04	0.04	0.03	1.86	0.03
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.03	0.03
Demand for Sugarcane Production (m ³ /sec)	0.00	1.12	1.64	3.47	2.49	3.07	3.36	0.04	0.04	0.07	0.07	1.89	0.07
Demand (Net) (m ³ /sec)	0.00	1.12	1.64	3.47	2.49	3.07	3.36	0.04	0.04	0.07	0.07	1.89	0.07
3 Water Balance													
Demand (m ³ /sec)	33.45	17.20	17.43	7.74	4.75	1.07	(1.67)	0.48	0.11	0.68	2.24	14.73	8.17



Available Water Resources: 328 MCM

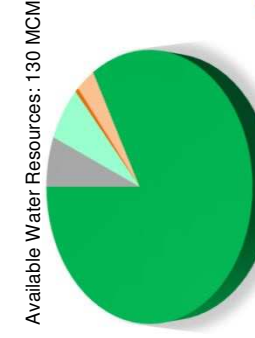
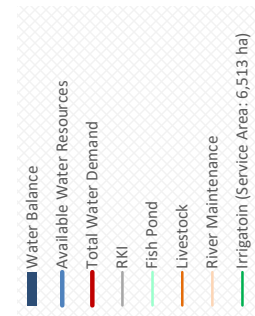
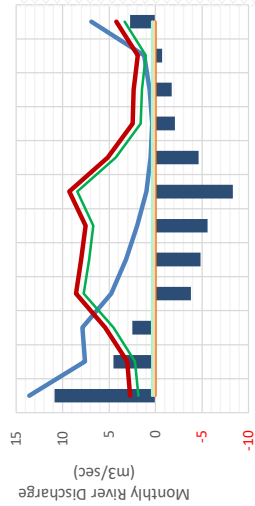
Available Water Resources: 328 MCM
 RKI: 6 MCM (1.76 %)
 Fish Pond: 6 MCM (1.86 %)
 Livestock: 1 MCM (0.16 %)
 Maintenance: 13 MCM (3.89 %)
 Irrigation: 45 MCM (13.82 %)
 Potential: 258 MCM (78.50 %)

Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

Annual Water Balance

Calculation Sheet on Water Potential by DI (3 / 5)

River Territory ID: DI Bantimurung													
Water Source: Sungai Bantimurung Before Improvement													
DI Watershed Area: 111 km2													
River Territory ID: DI Bantimurung													
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P_{ave} (mm)	355	310	232	158	88	115	62	48	62	106	172	356	2,064
1.2 Rainfall $P_{80\%}$ (mm)	246	218	154	104	49	54	15	7	8	40	96	272	1,263
1.3 Discharge Q_{ave} (m ³ /sec)	18.59	15.18	12.05	8.05	5.82	4.43	2.78	2.11	1.48	2.42	5.49	15.60	7.80
1.4 Discharge $Q_{80\%}$ (m ³ /sec)	13.59	7.58	7.89	4.77	3.19	1.96	0.99	0.53	0.37	0.61	1.23	6.91	4.13
-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	217	217	217	217	217	217	217	217	217	217	217	217	-
Domestic Use (m ³ /sec)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	2.24
Urban Use (m ³ /sec)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.38
Industry Use (m ³ /sec)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.32
Demand (m ³ /sec)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
2.2 Fish Pond													
Pond Area (ha)	164	164	164	164	164	164	164	164	164	164	164	164	-
Demand (m ³ /sec)	0.36	0.32	0.36	0.34	0.36	0.34	0.36	0.36	0.34	0.36	0.34	0.36	0.35
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	-
Sheep/Goat (10 ³ tails)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	-
Pig (10 ³ tails)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	-
Poultry (10 ⁶ tails)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-
Demand (m ³ /sec)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2.4 River Maintenance													
Demand ($Q_{MIN95\%}$) (m ³ /sec)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
2.5 Irrigation (Service Area: 6,513 ha)													
Irrigated Paddy Planted Area (ha)	6,513	6,513	6,513	6,252	6,122	6,122	6,122	2,694	980	980	980	4,669	-
Irrigated Palawija Planted Area (ha)	0	0	0	0	391	391	391	0	0	0	0	0	-
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Demand for Paddy Production (m ³ /sec)	1.86	2.22	4.53	7.72	7.09	6.61	8.37	4.28	1.60	1.47	1.06	3.32	-
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.06	0.08	0.06	0.00	0.00	0.00	0.00	0.00	-
Demand for Sugarcane Production (m ³ /sec)	1.86	2.22	4.53	7.72	7.15	6.69	8.43	4.28	1.60	1.47	1.06	3.32	-
Demand (Net) (m ³ /sec)	1.86	2.22	4.53	7.72	7.15	6.69	8.43	4.28	1.60	1.47	1.06	3.32	4.21
3 Water Balance													
Demand (m ³ /sec)	10.86	4.52	2.48	(3.82)	(4.83)	(5.59)	(8.31)	(4.63)	(2.09)	(1.73)	(0.70)	2.72	(0.95)



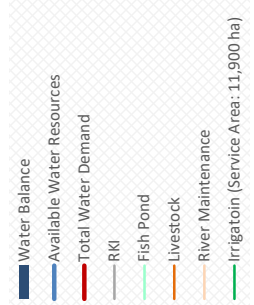
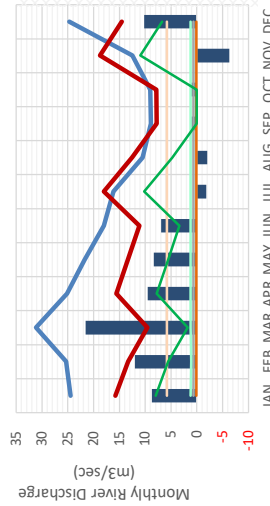
Available Water Resources:
 130 MCM
 RKI: 10 MCM (7.97 %)
 Fish Pond: 11 MCM (8.46 %)
 Livestock: 1 MCM (0.71 %)
 Maintenance: 5 MCM (3.89 %)
 Irrigation: 133 MCM (101.93 %)
 Potential: -30 MCM (-22.96 %)

Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

Monthly Water Balance

Calculation Sheet on Water Potential by DI (4 / 5)

River Territory ID: DI Lamasi		DI Watershed Area: 399 km2		Water Source: Sungai Lamasi Before Improvement											
(Unit)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual	
1 Available Water Resources															
1.1	Rainfall P _{ave} (mm)	216	270	274	293	253	271	189	152	156	209	209	284	2,776	
1.2	Rainfall P _{80%} (mm)	153	186	195	205	176	191	106	64	70	87	117	190	1,740	
1.3	Discharge Q _{ave} (m ³ /sec)	33.79	33.48	38.20	35.64	33.75	28.03	23.95	18.24	15.71	16.69	23.71	30.50	27.61	
1.4	Discharge Q _{80%} (m ³ /sec)	24.50	25.31	31.18	25.11	21.74	18.04	16.20	10.50	8.88	9.04	12.45	24.72	18.95	
2 Water Demand															
2.1 RKI															
	Population (10 ³ person)	508	508	508	508	508	508	508	508	508	508	508	508	508	
	Domestic Use (m ³ /sec)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	
	Urban Use (m ³ /sec)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
	Industry Use (m ³ /sec)	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	
	Demand (m ³ /sec)	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	
2.2 Fish Pond															
	Pond Area (ha)	566	566	566	566	566	566	566	566	566	566	566	566	566	
	Demand (m ³ /sec)	1.23	1.11	1.23	1.19	1.23	1.19	1.23	1.23	1.19	1.23	1.19	1.23	1.21	
2.3 Livestock															
	Cattle/Bufalo (10 ³ tails)	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	
	Sheep/Goat (10 ³ tails)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
	Pig (10 ³ tails)	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	
	Poultry (10 ⁶ tails)	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	
	Demand (m ³ /sec)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
2.4 River Maintenance															
	Demand (Q _{MIN95%}) (m ³ /sec)	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	
2.5 Irrigation (Service Area: 11,900 ha)															
	Irrigated Paddy Planted Area (ha)	11,506	11,506	3,835	7,671	11,506	11,506	11,506	3,835	0	0	7,671	11,506	-	
	Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-	
	Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-	
	Demand for Paddy Production (m ³ /sec)	7.94	5.57	1.79	7.78	5.55	3.35	10.21	4.71	0.00	0.00	10.95	6.69	-	
	Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	
	Demand for Sugarcane Production (m ³ /sec)	7.94	5.57	1.79	7.78	5.55	3.35	10.21	4.71	0.00	0.00	10.95	6.69	-	
	Demand (Net) (m ³ /sec)	7.94	5.57	1.79	7.78	5.55	3.35	10.21	4.71	0.00	0.00	10.95	6.69	5.38	
3 Water Balance															
	Water Balance (m ³ /sec)	8.72	12.03	21.56	9.54	8.35	6.90	(1.85)	(2.05)	1.09	1.21	(6.29)	10.20	5.77	



Available Water Resources: 598 MCM

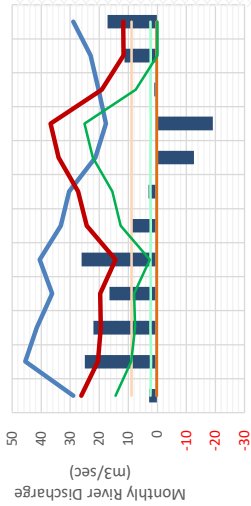
Available Water Resources: 598 MCM
 RKI: 21 MCM (3.56 %)
 Fish Pond: 38 MCM (6.36 %)
 Livestock: 3 MCM (0.53 %)
 Maintenance: 184 MCM (30.74 %)
 Irrigation: 170 MCM (28.37 %)
 Potential: 182 MCM (30.43 %)

Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

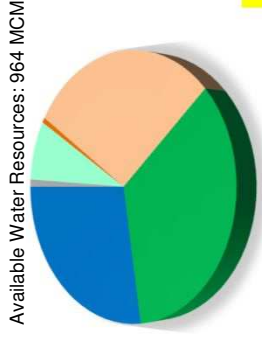
Annual Water Balance

Calculation Sheet on Water Potential by DI (5 / 5)

River Territory ID: DI Kalaena		DI Watershed Area: 1,062 km2												Water Source: Sungai Kalaena & Sungai Singeni Before Improvement																		
(Unit)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual			
1 Available Water Resources																																
1.1	Rainfall P _{ave} (mm)	208	282	297	307	281	270	203	160	165	217	224	263	2,877			208	282	297	307	281	270	203	160	165	217	224	263	2,877			
1.2	Rainfall P _{80%} (mm)	147	195	211	215	197	190	114	68	74	91	126	176	1,804			147	195	211	215	197	190	114	68	74	91	126	176	1,804			
1.3	Discharge Q _{ave} (m ³ /sec)	76.27	82.26	91.45	92.53	62.61	52.27	49.26	48.29	52.80	36.31	48.39	62.07	62.73			76.27	82.26	91.45	92.53	62.61	52.27	49.26	48.29	52.80	36.31	48.39	62.07	62.73			
1.4	Discharge Q _{80%} (m ³ /sec)	29.04	45.52	41.54	36.23	40.53	33.25	30.36	21.37	17.73	20.24	22.96	28.93	30.55			29.04	45.52	41.54	36.23	40.53	33.25	30.36	21.37	17.73	20.24	22.96	28.93	30.55			
2 Water Demand																																
2.1 RKI																																
Population (10 ³ person)		257	257	257	257	257	257	257	257	257	257	257	257	257			257	257	257	257	257	257	257	257	257	257	257	257	257	257		
Domestic Use (m ³ /sec)		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20			0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Urban Use (m ³ /sec)		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Industry Use (m ³ /sec)		0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07			0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Demand (m ³ /sec)		0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29			0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
2.2 Fish Pond																																
Pond Area (ha)		1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093			1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	
Demand (m ³ /sec)		2.37	2.14	2.37	2.30	2.37	2.30	2.37	2.37	2.30	2.37	2.30	2.37	2.33			2.37	2.14	2.37	2.30	2.37	2.30	2.37	2.37	2.30	2.37	2.30	2.37	2.33	2.37	2.33	
2.3 Livestock																																
Cattle/Bufalo (10 ³ tails)		195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4			195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	
Sheep/Goat (10 ³ tails)		96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6			96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
Pig (10 ³ tails)		93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3			93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
Poultry (10 ⁶ tails)		13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3			13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Demand (m ³ /sec)		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20			0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2.4 River Maintenance																																
Demand (Q _{MIN95%}) (m ³ /sec)		8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89			8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89
2.5 Irrigation (Service Area: 16,985 ha)																																
Irrigated Paddy Planted Area (ha)		12,123	18,184	18,184	18,184	6,061	12,123	18,184	18,184	18,184	6,061	18,184	18,184	18,184			12,123	18,184	18,184	18,184	6,061	12,123	18,184	18,184	18,184	6,061	18,184	18,184	18,184	18,184	18,184	
Irrigated Palawija Planted Area (ha)		0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irrigated Sugarcane Planted Area (ha)		0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demand for Paddy Production (m ³ /sec)		14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00			14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00	0.00	0.00	
Demand for Palawija Production (m ³ /sec)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demand for Sugarcane Production (m ³ /sec)		14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00			14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00	0.00	0.00	0.00
Demand (Net) (m ³ /sec)		14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00			14.44	8.99	7.74	8.02	2.64	12.65	15.52	22.28	25.12	7.44	0.00	0.00	0.00	0.00	0.00	0.00
3 Water Balance																																
Demand (m ³ /sec)		2.85	25.01	22.06	16.53	26.15	8.93	3.09	(12.66)	(19.06)	1.06	11.28	17.18	8.45			2.85	25.01	22.06	16.53	26.15	8.93	3.09	(12.66)	(19.06)	1.06	11.28	17.18	8.45			



Monthly Water Balance



Annual Water Balance

Available Water Resources: 964 MCM

RKI: 9 MCM (0.94 %)

Fish Pond: 73 MCM (7.62 %)

Livestock: 6 MCM (0.64 %)

Maintenance: 280 MCM (29.11 %)

Irrigation: 328 MCM (34.05 %)

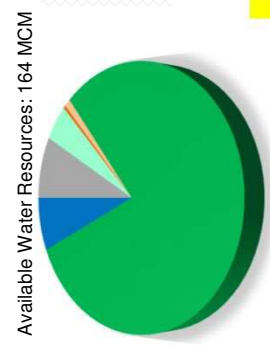
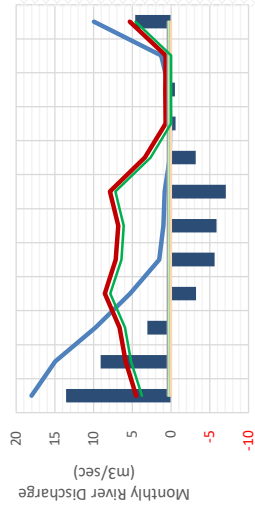
Potential: 266 MCM (27.64 %)

Water Potential Area for Double Cropping: - ha

Unit Water Potential Area: - ha/km²

Calculation Sheet on Water Potential by DI (1 / 5)

River Territory ID: DI Kelara Karalloe													
DI Watershed Area: 281 km2						Water Source: Sungai Kelara & Sungai Karalloe After Improvement							
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P _{ave} (mm)	320	225	198	124	67	99	40	29	41	80	135	329	1,687
1.2 Rainfall P _{80%} (mm)	201	136	137	69	29	32	7	3	6	22	79	209	931
1.3 Discharge Q _{ave} (m ³ /sec)	33.52	30.01	16.51	10.80	3.87	2.92	2.44	0.84	0.45	0.88	4.63	23.12	10.74
1.4 Discharge Q _{80%} (m ³ /sec)	18.04	14.97	9.72	5.31	1.53	0.96	0.83	0.17	0.12	0.22	1.26	9.97	5.22
-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	362	362	362	362	362	362	362	362	362	362	362	362	362
Domestic Use (m ³ /sec)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Urban Use (m ³ /sec)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industry Use (m ³ /sec)	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Demand (m ³ /sec)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
2.2 Fish Pond													
Pond Area (ha)	111	111	111	111	111	111	111	111	111	111	111	111	111
Demand (m ³ /sec)	0.24	0.22	0.24	0.23	0.24	0.23	0.24	0.24	0.23	0.24	0.23	0.24	0.24
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
Sheep/Goat (10 ³ tails)	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Pig (10 ³ tails)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Poultry (10 ⁶ tails)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Demand (m ³ /sec)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2.4 River Maintenance													
Demand (Q _{MIN95%}) (m ³ /sec)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2.5 Irrigation (Service Area: 10,000 ha)													
Irrigated Paddy Planted Area (ha)	7,199	7,199	7,199	6,066	5,500	5,500	5,500	1,833	0	0	0	4,799	-
Irrigated Palawija Planted Area (ha)	0	0	0	0	697	1,045	1,045	348	0	0	0	0	-
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Demand for Paddy Production (m ³ /sec)	3.76	5.17	5.95	7.84	6.32	5.95	7.04	2.59	0.00	0.00	0.00	4.61	-
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.09	0.16	0.15	0.05	0.00	0.00	0.00	0.00	-
Demand for Sugarcane Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand (Net) (m ³ /sec)	3.76	5.17	5.95	7.84	6.41	6.11	7.19	2.64	0.00	0.00	0.00	4.61	4.14
3 Water Balance													
Demand (m ³ /sec)	13.55	9.10	3.05	(3.24)	(5.60)	(5.87)	(7.08)	(3.19)	(0.60)	(0.50)	0.54	4.63	0.36



Available Water Resources: 164 MCM

RKI: 13 MCM (7.90 %)
 Fish Pond: 7 MCM (4.53 %)
 Livestock: 1 MCM (0.38 %)
 Maintenance: 2 MCM (1.01 %)
 Irrigation: 131 MCM (79.36 %)
 Potential: 11 MCM (6.82 %)

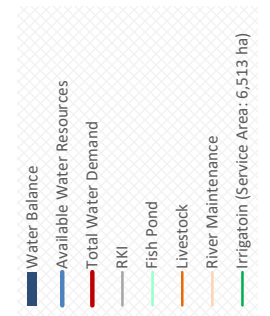
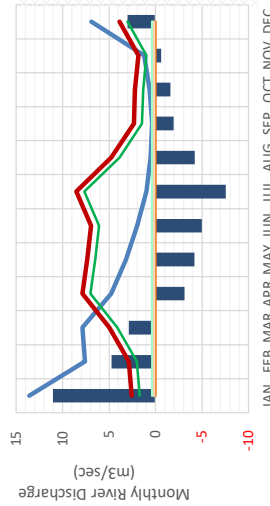
Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

Annual Water Balance

Monthly Water Balance

Calculation Sheet on Water Potential by DI (3 / 5)

River Territory ID: DI Bantimurung													
Water Source: Sungai Bantimurung After Improvement													
DI Watershed Area: 111 km2													
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P _{ave} (mm)	355	310	232	158	88	115	62	48	62	106	172	356	2,064
1.2 Rainfall P _{80%} (mm)	246	218	154	104	49	54	15	7	8	40	96	272	1,263
1.3 Discharge Q _{ave} (m ³ /sec)	18.59	15.18	12.05	8.05	5.82	4.43	2.78	2.11	1.48	2.42	5.49	15.60	7.80
1.4 Discharge Q _{80%} (m ³ /sec)	13.59	7.58	7.89	4.77	3.19	1.96	0.99	0.53	0.37	0.61	1.23	6.91	4.13
-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	217	217	217	217	217	217	217	217	217	217	217	217	-
Domestic Use (m ³ /sec)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	2.24
Urban Use (m ³ /sec)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.38
Industry Use (m ³ /sec)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.32
Demand (m ³ /sec)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
2.2 Fish Pond													
Pond Area (ha)	164	164	164	164	164	164	164	164	164	164	164	164	-
Demand (m ³ /sec)	0.36	0.32	0.36	0.34	0.36	0.34	0.36	0.36	0.34	0.36	0.34	0.36	0.35
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	-
Sheep/Goat (10 ³ tails)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	-
Pig (10 ³ tails)	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	-
Poultry (10 ⁶ tails)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-
Demand (m ³ /sec)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
2.4 River Maintenance													
Demand (Q _{MIN95%}) (m ³ /sec)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
2.5 Irrigaiton (Service Area: 6,513 ha)													
Irrigated Paddy Planted Area (ha)	6,513	6,513	6,513	6,252	6,122	6,122	6,122	2,694	980	980	980	4,669	-
Irrigated Palawija Planted Area (ha)	0	0	0	0	0	391	391	0	0	0	0	0	-
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Demand for Paddy Production (m ³ /sec)	1.69	2.02	4.12	7.02	6.45	6.01	7.61	3.89	1.45	1.34	0.96	3.02	-
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.05	0.07	0.05	0.00	0.00	0.00	0.00	0.00	-
Demand for Sugarcane Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand (Net) (m ³ /sec)	1.69	2.02	4.12	7.02	6.50	6.08	7.66	3.89	1.45	1.34	0.96	3.02	3.83
3 Water Balance													
Demand (m ³ /sec)	11.03	4.72	2.89	(3.12)	(4.18)	(4.99)	(7.55)	(4.24)	(1.94)	(1.60)	(0.60)	3.02	(0.57)



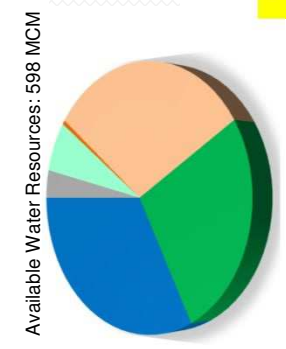
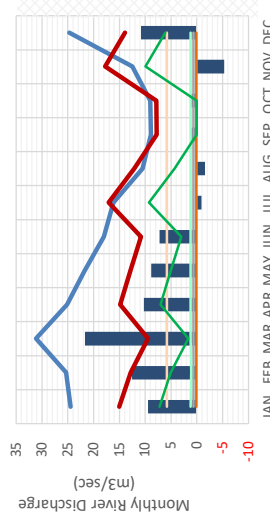
Available Water Resources: 130 MCM

RKI: 10 MCM (7.97 %)
 Fish Pond: 11 MCM (8.46 %)
 Livestock: 1 MCM (0.71 %)
 Maintenance: 5 MCM (3.89 %)
 Irrigation: 121 MCM (92.67 %)
 Potential: -18 MCM (-13.70 %)

Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

Calculation Sheet on Water Potential by DI (4 / 5)

River Territory ID: DI Lamasi													
DI Watershed Area: 399 km2													
Water Source: Sungai Lamasi After Improvement													
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P _{ave} (mm)	216	270	274	293	253	271	189	152	156	209	209	284	2,776
1.2 Rainfall P _{80%} (mm)	153	186	195	205	176	191	106	64	70	87	117	190	1,740
1.3 Discharge Q _{ave} (m ³ /sec)	33.79	33.48	38.20	35.64	33.75	28.03	23.95	18.24	15.71	16.69	23.71	30.50	27.61
1.4 Discharge Q _{80%} (m ³ /sec)	24.50	25.31	31.18	25.11	21.74	18.04	16.20	10.50	8.88	9.04	12.45	24.72	18.95
-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	508	508	508	508	508	508	508	508	508	508	508	508	508
Domestic Use (m ³ /sec)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	5.22
Urban Use (m ³ /sec)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.80
Industry Use (m ³ /sec)	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	2.08
Demand (m ³ /sec)	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
2.2 Fish Pond													
Pond Area (ha)	566	566	566	566	566	566	566	566	566	566	566	566	-
Demand (m ³ /sec)	1.23	1.11	1.23	1.19	1.23	1.19	1.23	1.23	1.19	1.23	1.19	1.23	1.21
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	-
Sheep/Goat (10 ³ tails)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	-
Pig (10 ³ tails)	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	-
Poultry (10 ⁶ tails)	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	-
Demand (m ³ /sec)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2.4 River Maintenance													
Demand (Q _{MIN95%}) (m ³ /sec)	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83
2.5 Irrigation (Service Area: 11,900 ha)													
Irrigated Paddy Planted Area (ha)	11,506	11,506	3,835	7,671	11,506	11,506	11,506	3,835	0	0	7,671	11,506	-
Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Demand for Paddy Production (m ³ /sec)	7.22	5.06	1.63	7.07	5.05	3.04	9.28	4.29	0.00	0.00	9.95	6.08	-
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand for Sugarcane Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand (Net) (m ³ /sec)	7.22	5.06	1.63	7.07	5.05	3.04	9.28	4.29	0.00	0.00	9.95	6.08	4.89
3 Water Balance													
Demand (m ³ /sec)	9.45	12.53	21.72	10.25	8.86	7.21	(0.92)	(1.62)	1.09	1.21	(5.30)	10.81	6.25

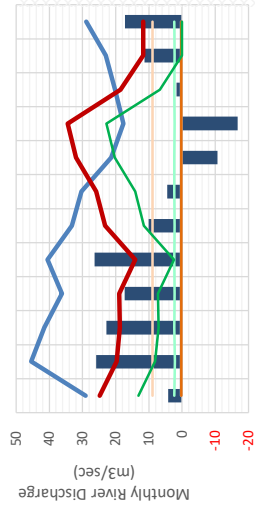


Water Potential Area for Double Cropping: - ha
Unit Water Potential Area: - ha/km²

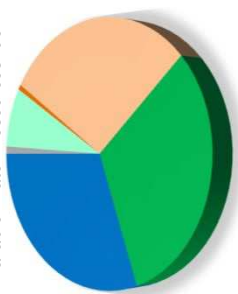
Annual Water Balance

Calculation Sheet on Water Potential by DI (5 / 5)

River Territory ID: DI Kalaena													
DI Watershed Area: 1,062 km2													
Water Source: Sungai Kalaena & Sungai Singeni After Improvement													
(Unit)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
1 Available Water Resources													
1.1 Rainfall P _{ave} (mm)	208	282	297	307	281	270	203	160	165	217	224	263	2,877
1.2 Rainfall P _{80%} (mm)	147	195	211	215	197	190	114	68	74	91	126	176	1,804
1.3 Discharge Q _{ave} (m ³ /sec)	76.27	82.26	91.45	92.53	62.61	52.27	49.26	48.29	52.80	36.31	48.39	62.07	62.73
1.4 Discharge Q _{80%} (m ³ /sec)	29.04	45.52	41.54	36.23	40.53	33.25	30.36	21.37	17.73	20.24	22.96	28.93	30.55
2 Water Demand													
2.1 RKI													
Population (10 ³ person)	257	257	257	257	257	257	257	257	257	257	257	257	257
Domestic Use (m ³ /sec)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Urban Use (m ³ /sec)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Industry Use (m ³ /sec)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Demand (m ³ /sec)	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
2.2 Fish Pond													
Pond Area (ha)	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093
Demand (m ³ /sec)	2.37	2.14	2.37	2.30	2.37	2.30	2.37	2.37	2.30	2.37	2.30	2.37	2.33
2.3 Livestock													
Cattle/Bufalo (10 ³ tails)	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4	195.4
Sheep/Goat (10 ³ tails)	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
Pig (10 ³ tails)	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
Poultry (10 ⁶ tails)	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
Demand (m ³ /sec)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2.4 River Maintenance													
Demand (Q _{MIN95%}) (m ³ /sec)	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89
2.5 Irrigation (Service Area: 16,985 ha)													
Irrigated Paddy Planted Area (ha)	12,123	18,184	18,184	18,184	6,061	12,123	18,184	18,184	18,184	6,061	0	0	-
Irrigated Palawija Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Irrigated Sugarcane Planted Area (ha)	0	0	0	0	0	0	0	0	0	0	0	0	-
Demand for Paddy Production (m ³ /sec)	13.12	8.17	7.03	7.30	2.40	11.50	14.11	20.25	22.84	6.76	0.00	0.00	-
Demand for Palawija Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand for Sugarcane Production (m ³ /sec)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Demand (Net) (m ³ /sec)	13.12	8.17	7.03	7.30	2.40	11.50	14.11	20.25	22.84	6.76	0.00	0.00	9.46
3 Water Balance													
Demand (m ³ /sec)	4.17	25.83	22.76	17.26	26.39	10.08	4.50	(10.63)	(16.78)	1.73	11.28	17.18	9.39



Available Water Resources: 964 MCM



Available Water Resources: 964 MCM

RKI: 964 MCM (0.94 %)

Fish Pond: 73 MCM (7.62 %)

Livestock: 6 MCM (0.64 %)

Maintenance: 280 MCM (29.11 %)

Irrigation: 298 MCM (30.95 %)

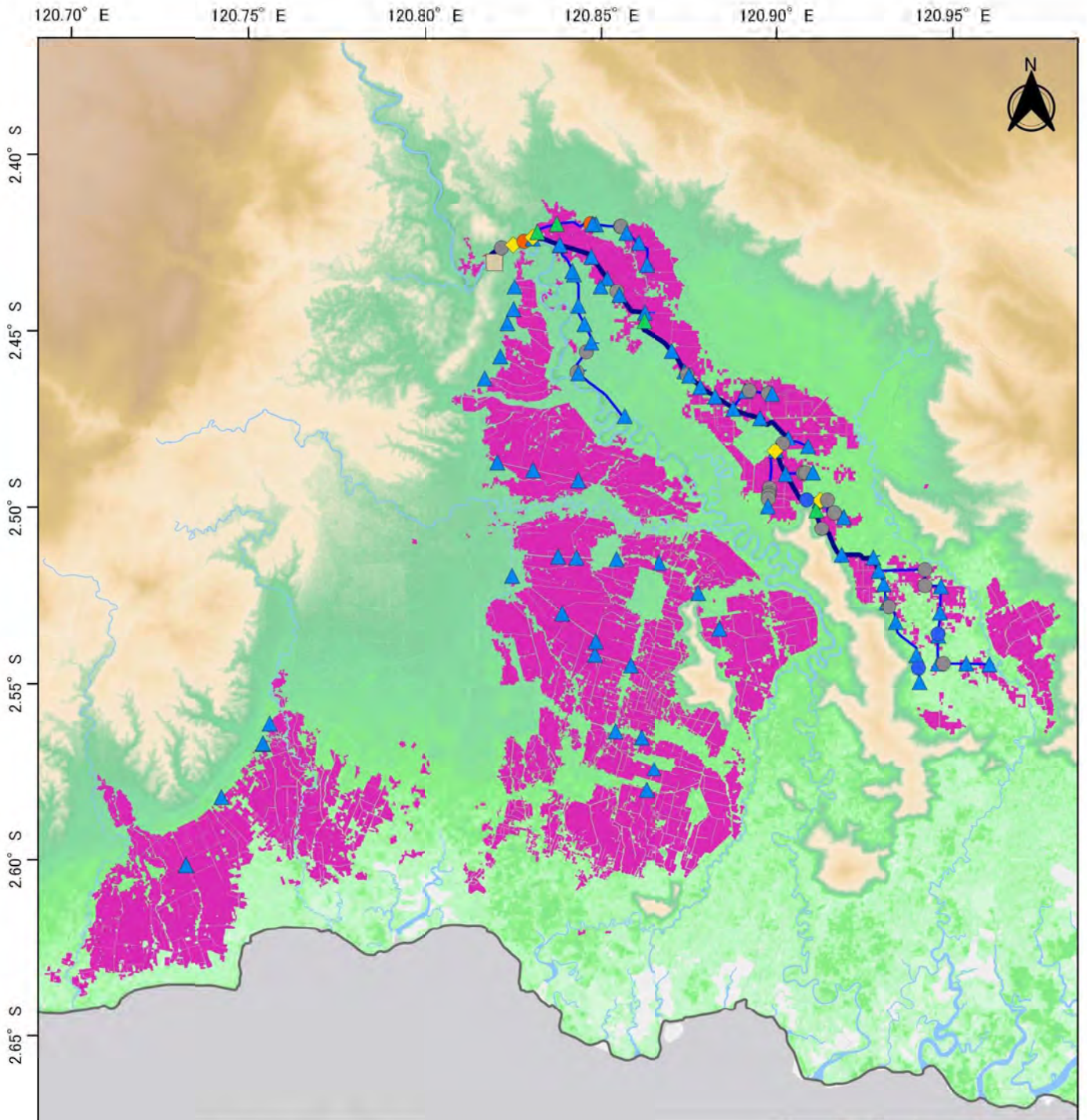
Potential: 296 MCM (30.74 %)

Water Potential Area for Double Cropping: - ha

Unit Water Potential Area: - ha/km²

Annual Water Balance

Monthly Water Balance



Canal Network Map in DI. Kalaena

Irrigation Structure

- | | | |
|----------------------|---------------|-----------------|
| ■ Dam | ▲ Intake | ● Slope Channel |
| ■ Weir | ▲ Pump | ● Spillway |
| ▲ Division Structure | ◆ Water Gauge | ● Syphon |
| ▲ Drop Structure | ● Aqueduct | ● Tunnel |
| ▲ Gate | ● Culvert | |

Irrigation Scheme

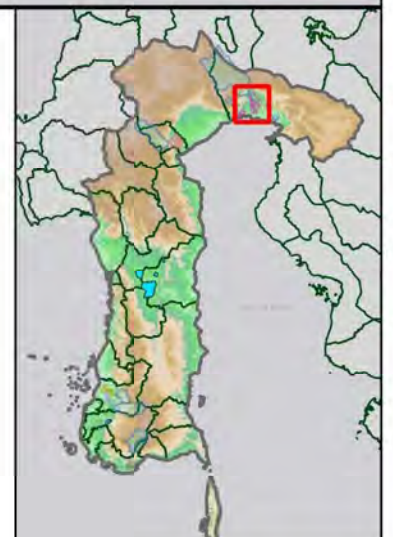
- | |
|-------------------|
| ■ Banimurung |
| ■ Kalaena |
| ■ Kelara Karalloe |
| ■ Larrasi |
| ■ LekoPancing |

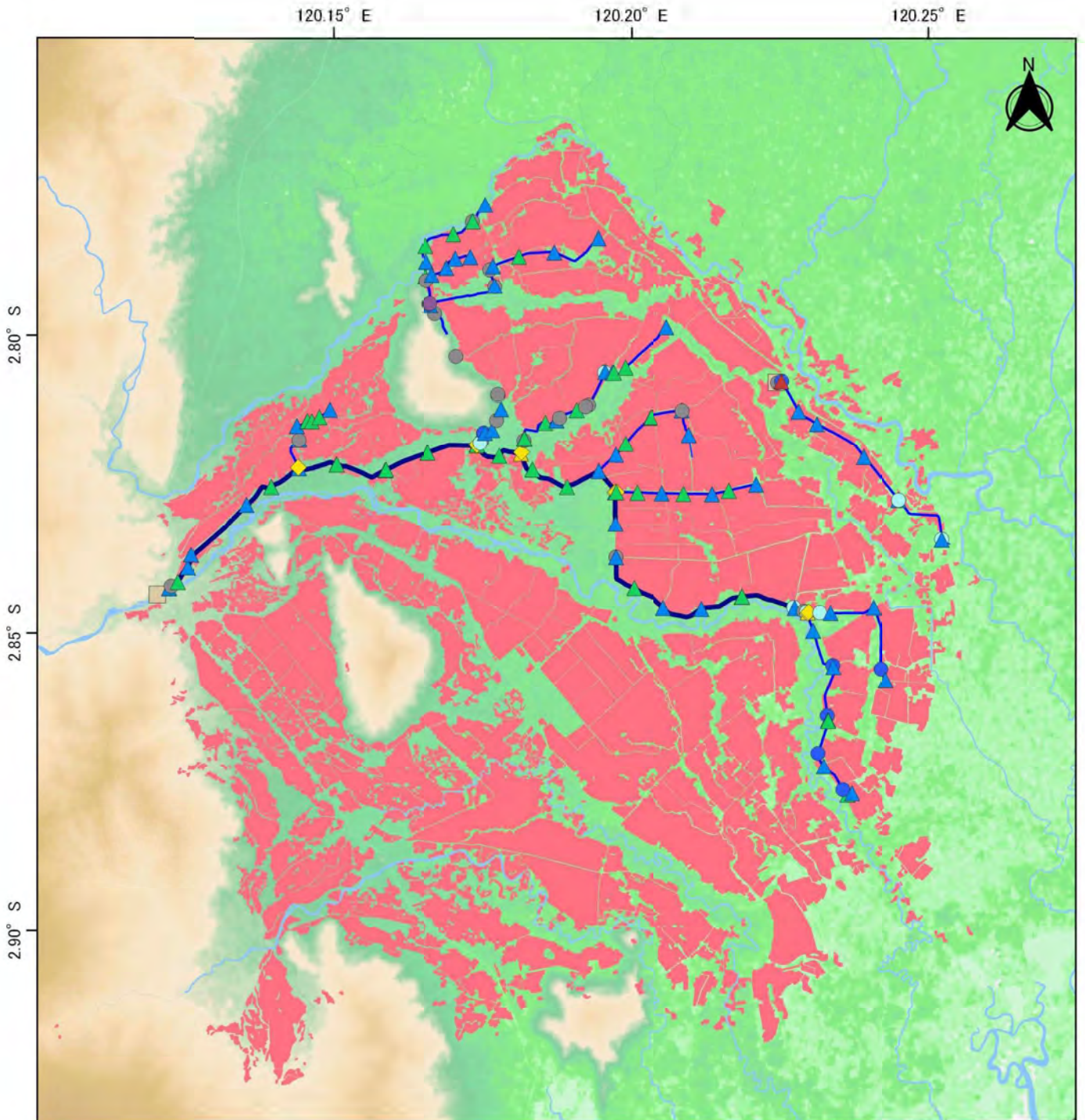
Canal & Waterbody

- | | | |
|-------------------|----------------------------|---------------------|
| — Primary Canal | — Tertiary & Quarter Canal | — Supply Canal |
| — Secondary Canal | — Drainage Canal | ■ River & Waterbody |

0 2 4 6 8 10 km

Reference: ePAKSI, PUPR (available at <http://103.211.51.198> on 28 January 2022)
 *Some geospatial data of irrigation schemes are directly obtained from DILL, PUPR





Canal Network Map in DI. Lamasi

Irrigation Structure

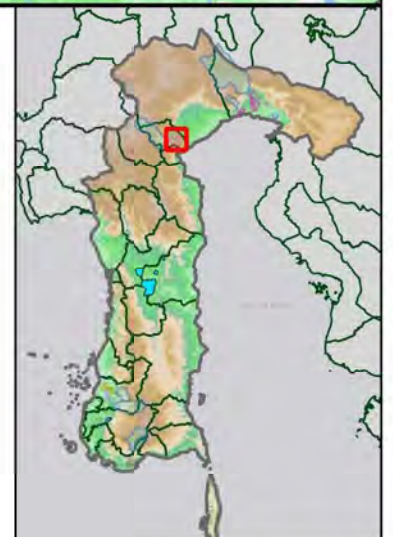
- | | | |
|----------------------|---------------|-----------------|
| ■ Dam | ▲ Intake | ● Slope Channel |
| ■ Weir | ▲ Pump | ○ Spillway |
| ▲ Division Structure | ▲ Water Gauge | ○ Syphon |
| ▲ Drop Structure | ● Aqueduct | ○ Tunnel |
| ▲ Gate | ● Culvert | |

Irrigation Scheme

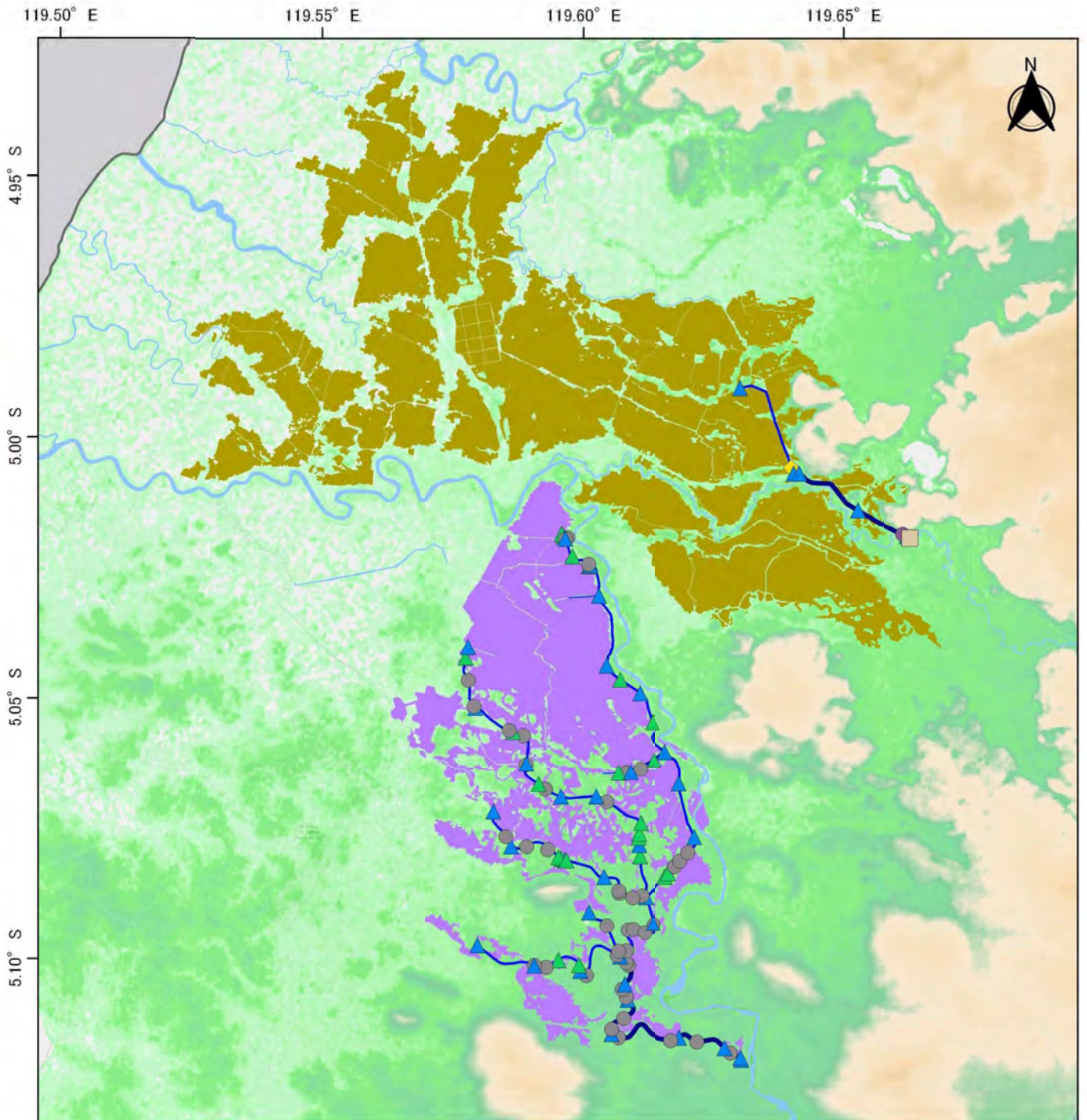
- | |
|-------------------|
| ■ Banimurung |
| ■ Kalaena |
| ■ Kelara Karalloe |
| ■ Larrasi |
| ■ LekoPancing |

Canal & Waterbody

- | | | |
|-------------------|----------------------------|---------------------|
| — Primary Canal | — Tertiary & Quarter Canal | — Supply Canal |
| — Secondary Canal | — Drainage Canal | — River & Waterbody |



Reference: ePAKSI, PUPR (available at <http://103.211.51.198> on 28 January 2022)
 *Some geospatial data of irrigation schemes are directly obtained from DILL, PUPR



Canal Network Map in DI. Leko Pancing & DI. Bantimurung

Irrigation Structure

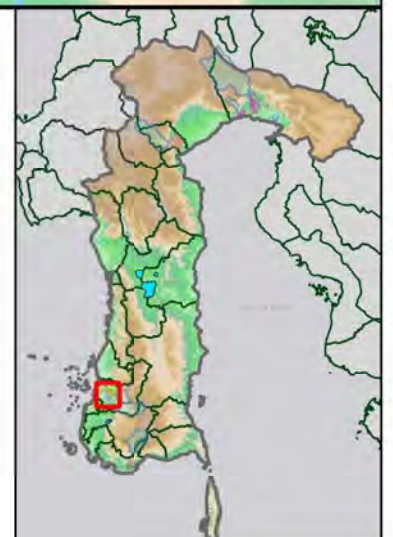
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|----------------------|---------------|-----------------|
| ■ Dam | ▲ Intake | ● Slope Channel |
| ■ Weir | ▲ Pump | ● Spillway |
| ▲ Division Structure | ◆ Water Gauge | ● Syphon |
| ▲ Drop Structure | ● Aqueduct | ● Tunnel |
| ▲ Gate | ● Culvert | |

Irrigation Scheme

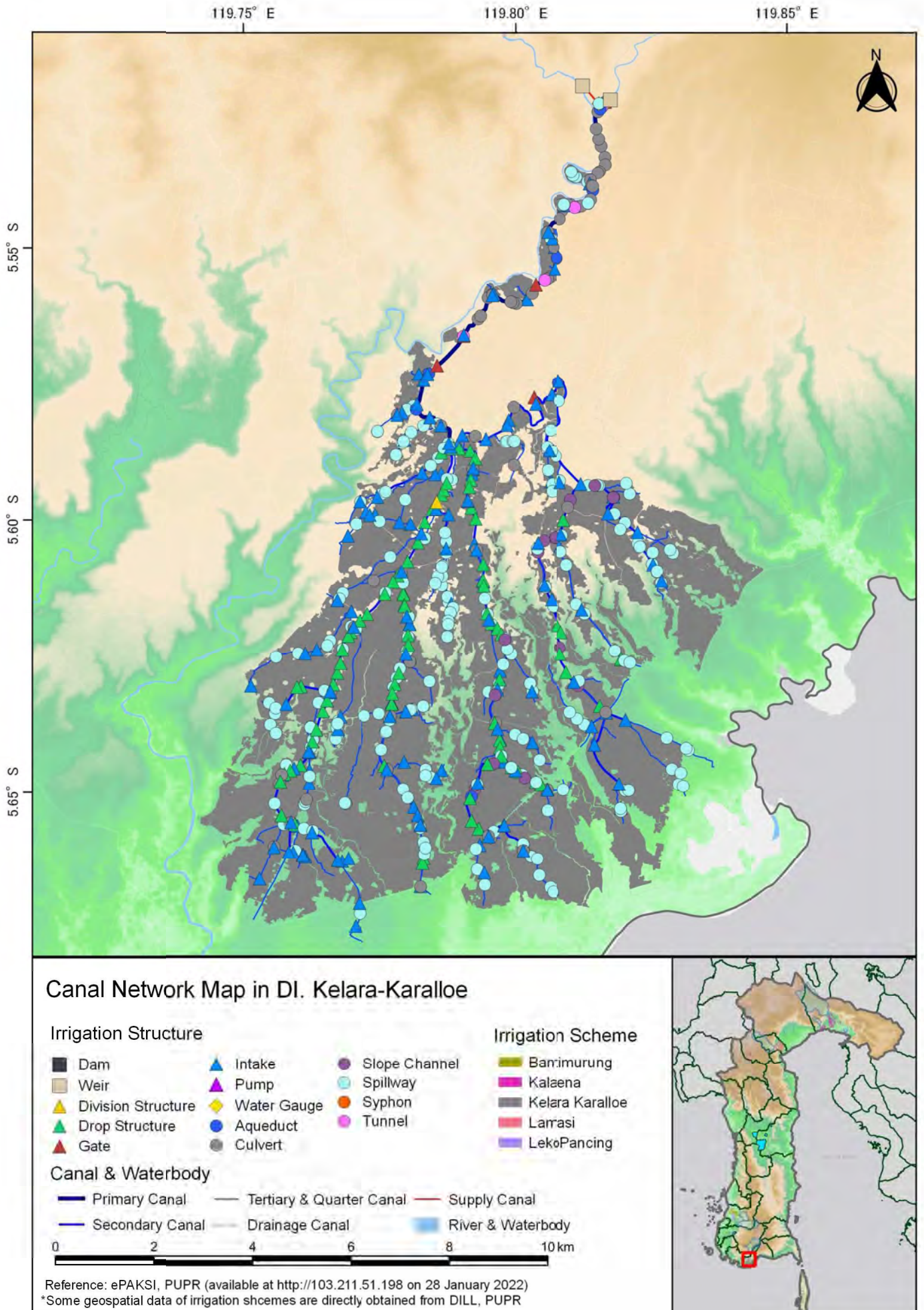
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|-------------------|
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| ■ Kalaena |
| ■ Kelara Karalloe |
| ■ Larrasi |
| ■ LekoPancing |

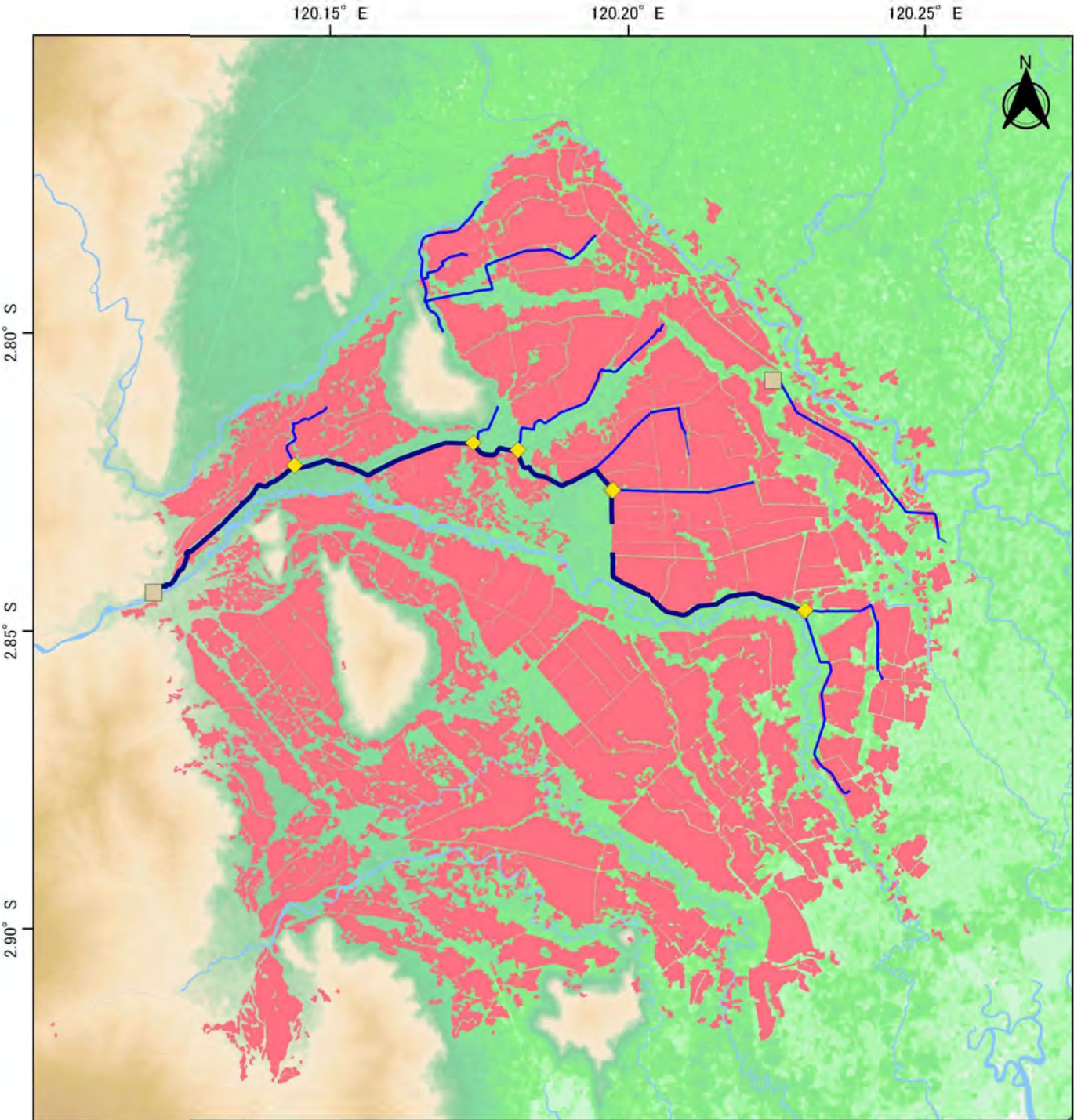
Canal & Waterbody

- | | | |
|-------------------|----------------------------|---------------------|
| — Primary Canal | — Tertiary & Quarter Canal | — Supply Canal |
| — Secondary Canal | — Drainage Canal | — River & Waterbody |



Reference: ePAKSI, PUPR (available at <http://103.211.51.198> on 28 January 2022)
 *Some geospatial data of irrigation schemes are directly obtained from DILL, PUPR





Canal Network Map in DI. Lamasi

Irrigation Structure

- Dam
- Weir
- Division Structure
- Drop Structure
- Gate
- Intake
- Pump
- Water Gauge
- Aqueduct
- Culvert
- Slope Channel
- Spillway
- Syphon
- Tunnel

Irrigation Scheme

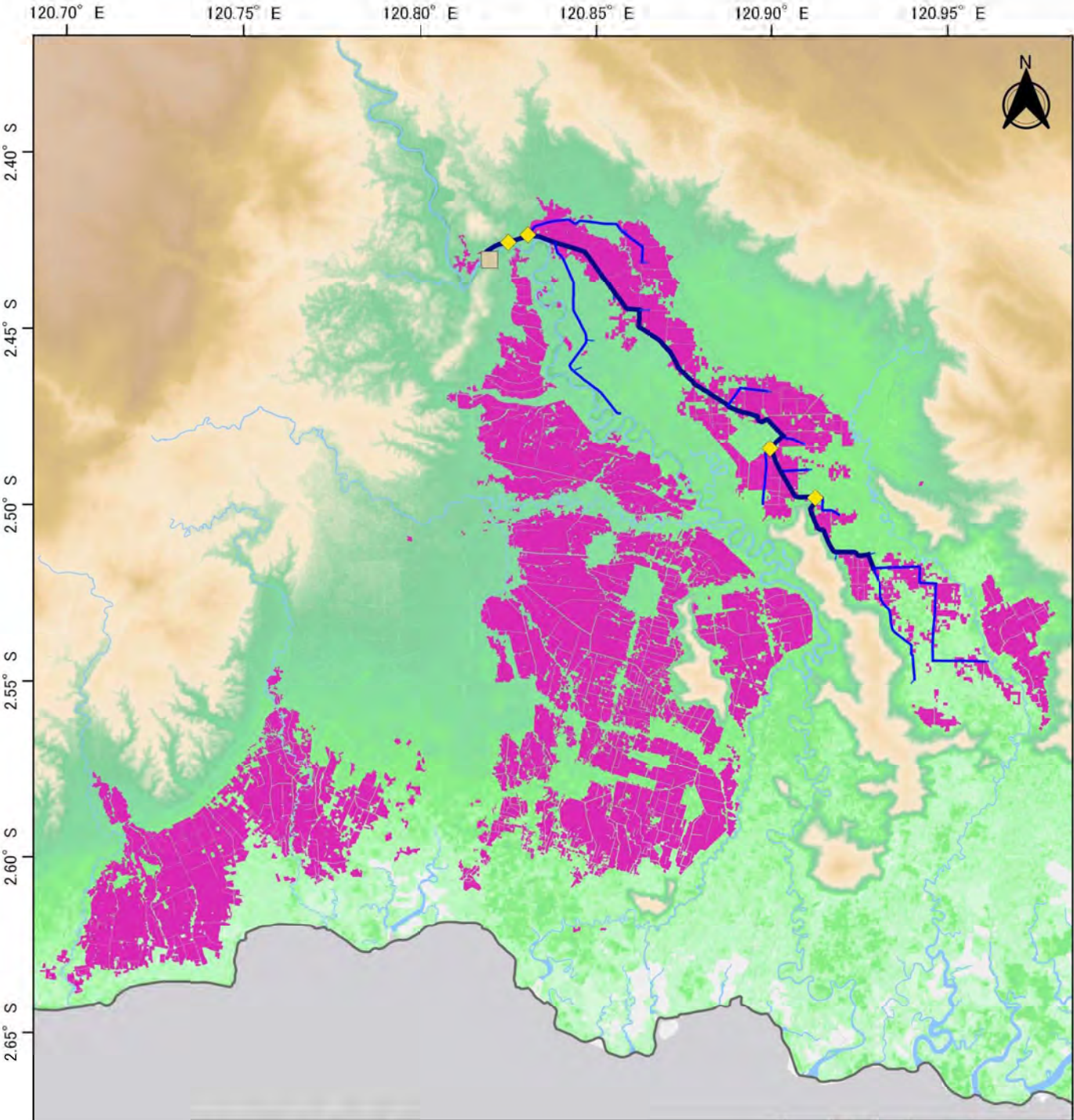
- Ban'imurung
- Kaleena
- Kelara-Karalloe
- Lamasi
- LekoPancing

Canal & Waterbody

- Primary Canal
- Tertiary & Quarter Canal
- Supply Canal
- Secondary Canal
- Drainage Canal
- River & Waterbody



Reference: ePAKSI, PUPR (available at <http://103.211.51.198> on 28 January 2022)
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Canal Network Map in DI. Kalaena

Irrigation Structure

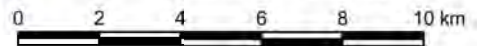
- Dam
- Weir
- ▲ Division Structure
- ▲ Drop Structure
- ▲ Gate
- ▲ Intake
- ▲ Pump
- ◆ Water Gauge
- Aqueduct
- Culvert
- Slope Channel
- Spillway
- Syphon
- Tunnel

Irrigation Scheme

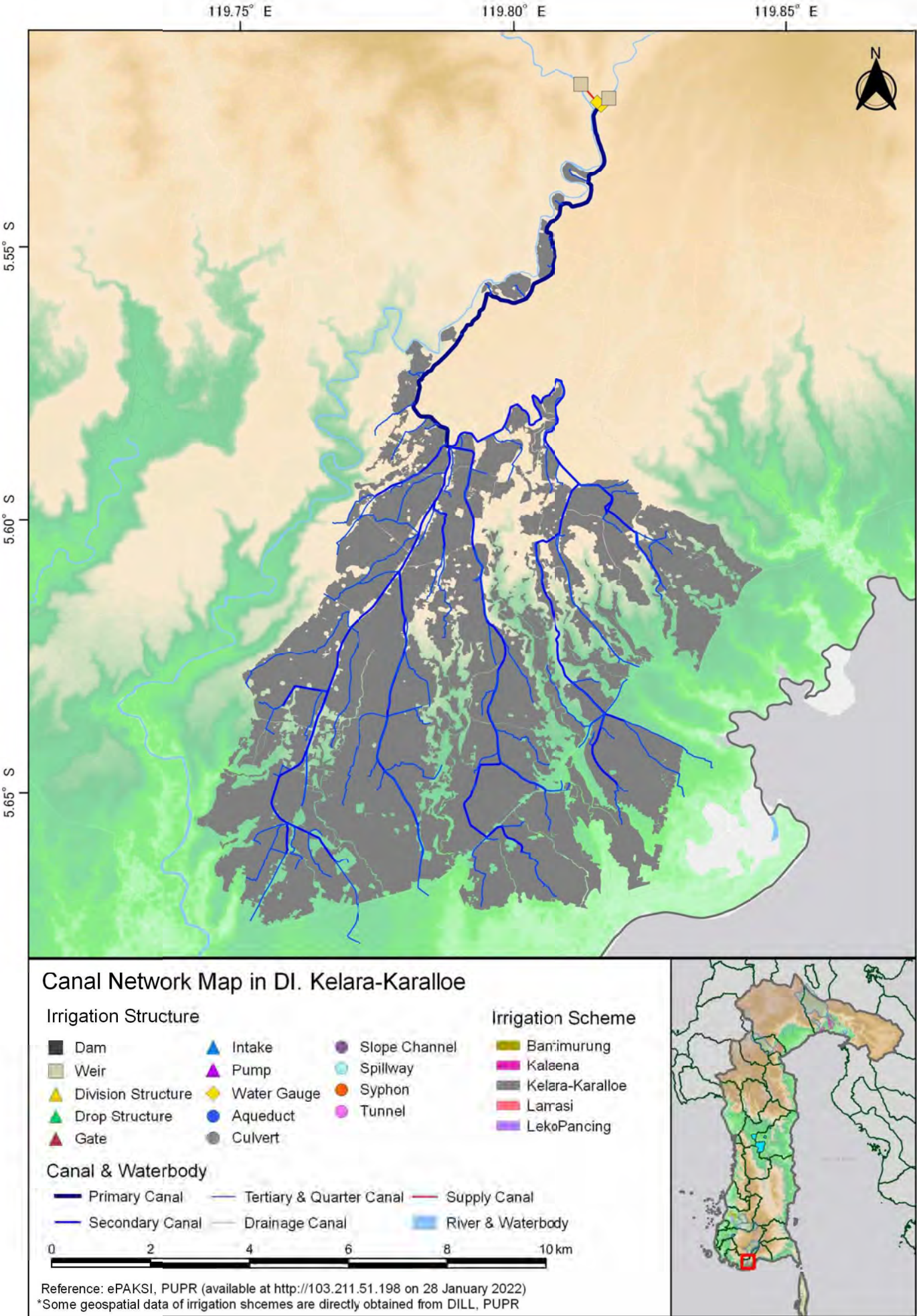
- Ban'imurung
- Kalaena
- Kelara-Karalloe
- Larrasi
- LekoPancing

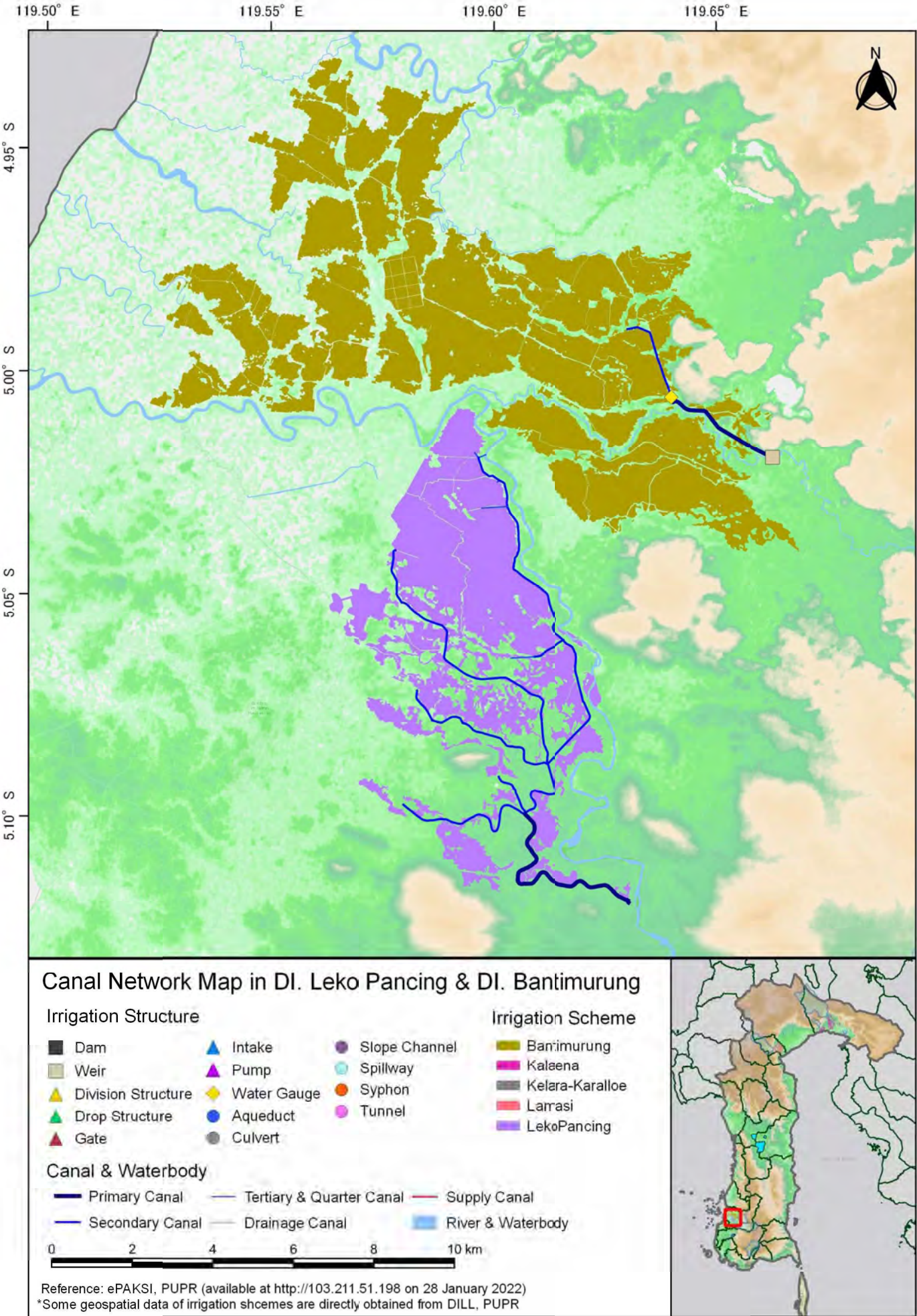
Canal & Waterbody

- Primary Canal
- Secondary Canal
- Tertiary & Quarter Canal
- Drainage Canal
- Supply Canal
- River & Waterbody



Reference: ePAKSI, PUPR (available at <http://103.211.51.198> on 28 January 2022)
 *Some geospatial data of irrigation schemes are directly obtained from DILL, PUPR





IRRIGATION ASSET INVENTORY (Canal)

DI Name: Kelara Karalloe (B.A: 10,000 ha)

Over All Ranking

2.9

Road Length for New As Pavement

L(m) = 60,518

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Rehab Length Canal (m)		New Canal Lining		Inspection Road (IR)			
					Side Wall	Bed						Side Wall	Bed	Side Wall	Bed	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)
P-1	Primary Canal	1974	P.C. Kelara Karalloe Ruas 1	B.Kl.0 - B.Kl.1	W.M.	W.M.	2,614	3.5	2.5	S-2	5,228	2,614	2,614	W.M.	W.M.	2,614	Gr	S-2	2,614
		1974	P.C. Kelara Karalloe Ruas 2	B.Kl.1 - B.Kl.2	W.M.	W.M.	745	3.5	2.5	S-2	1,490	745	745	W.M.	W.M.	745	Gr	S-2	745
		1974	P.C. Kelara Karalloe Ruas 3	B.Kl.2 - B.Kl.3	W.M.	W.M.	653	3.5	2.5	S-2	1,306	653	653	W.M.	W.M.	653	Gr	S-2	653
		1995	P.C. Kelara Karalloe Ruas 4	B.Kl.3 - B.Kl.4	W.M.	W.M.	410	3.5	2.5	S-2	820	410	410	W.M.	W.M.	410	Gr	S-2	410
		1995	P.C. Kelara Karalloe Ruas 5	B.Kl.4 - B.Kl.5	W.M.	W.M.	383	3.5	2.5	S-2	766	383	383	W.M.	W.M.	383	Gr	S-2	383
		1974	P.C. Kelara Karalloe Ruas 6	B.Kl.5 - B.Kl.6	W.M.	W.M.	466	3.5	2.5	S-2	932	466	466	W.M.	W.M.	466	Gr	S-2	466
		1995	P.C. Kelara Karalloe Ruas 7	B.Kl.6 - B.Kl.7	W.M.	W.M.	533	3.5	2.5	S-2	1,066	533	533	W.M.	W.M.	533	Gr	S-2	533
		1974	P.C. Kelara Karalloe Ruas 8	B.Kl.7 - B.Kl.8	W.M.	W.M.	760	3.5	2.5	S-5	3,600					760	Gr	S-2	760
		1995	P.C. Kelara Karalloe Ruas 9	B.Kl.8 - B.Kl.9	W.M.	W.M.	1,035	3.5	2.5	S-5	5,175					1,035	Gr	S-2	1,035
		1974	P.C. Kelara Karalloe Ruas 10	B.Kl.9 - B.Kl.10	W.M.	W.M.	1,100	3.5	2.5	S-5	5,500					1,100	Gr	S-2	1,100
		1995	P.C. Kelara Karalloe Ruas 11	B.Kl.10 - B.Kl.11	W.M.	W.M.	142	3.5	2.5	S-5	710					142	Gr	S-2	142
		1995	P.C. Kelara Karalloe Ruas 12	B.Kl.11 - B.Kl.12	W.M.	W.M.	591	3.5	2.5	S-5	2,955					591	Gr	S-2	591
		1995	P.C. Kelara Karalloe Ruas 13	B.Kl.12 - B.Kl.13	W.M.	W.M.	463	3.5	2.5	S-5	2,315					463	Gr	S-2	463
		1995	P.C. Kelara Karalloe Ruas 14	B.Kl.13 - B.Kl.14	W.M.	W.M.	290	3.5	2.5	S-5	1,450					290	Gr	S-2	290
		1995	P.C. Kelara Karalloe Ruas 15	B.Kl.14 - B.Kl.15	W.M.	W.M.	460	3.5	2.5	S-5	2,300					460	Gr	S-2	460
		1995	P.C. Kelara Karalloe Ruas 16	B.Kl.15 - B.Kl.16	W.M.	W.M.	170	3.5	2.5	S-5	850					170	Gr	S-2	170
SC-1	Secondary Canal	1974	S.C. Mattoanging Ruas 1	B.Kl.16 - B.M.1	W.M.	PC	1,200	0.6	0.8	S-5	6,000					1,200	Gr	S-2	1,200
		1995	S.C. Mattoanging Ruas 2	B.M.1 - B.M.2	W.M.	PC	707	0.6	0.8	S-2	1,414	707	707	W.M.	W.M.	1,177	Gr	S-2	1,177
							1,907									2,377			2,377
SC-2	Secondary Canal	1974	S.C. Agang Je'ne Ruas 1	B.Kl.16 - B.A.1	W.M.	W.M.	200	2.4	0.8	S-3	600	200	200	W.M.	W.M.	200		S-5	200
		1974	S.C. Agang Je'ne Ruas 2	B.A.1 - B.A.2	W.M.	W.M.	712	2.4	0.8	S-2	1,424	712	712	W.M.	W.M.	712		S-5	712
		1974	S.C. Agang Je'ne Ruas 3	B.A.2 - B.A.3	W.M.	W.M.	923	2.4	0.8	S-2	1,846	923	923	W.M.	W.M.	923		S-5	923
		1974	S.C. Agang Je'ne Ruas 4	B.A.3 - B.A.4	W.M.	Earth	200	1.5	1.0	S-2	400	200	200	W.M.	W.M.	200		S-5	200
		1974	S.C. Agang Je'ne Ruas 5	B.A.4 - B.A.5	W.M.	Earth	500	1.9	1.0	S-3	1,500	500	500	W.M.	W.M.	500		S-5	500
		1974	S.C. Agang Je'ne Ruas 6	B.A.5 - B.A.6	W.M.	W.M.	1,303	1.5	1.0	S-2	2,606	1,303	1,303	W.M.	W.M.	1,303		S-5	1,303
		1974	S.C. Agang Je'ne Ruas 7	B.A.6 - B.A.7	W.M.	Earth	482	1.7	1.0	S-2	964	482	482	W.M.	W.M.	482		S-5	482
		1974		B.A.7 - S. Muka	W.M.	Earth	5,110	0.8	0.7	S-2	10,220	5,110	5,110	W.M.	W.M.	5,110		S-2	5,110
		1974	S.C. Agang Je'ne Ruas 8	B.A.7 - B.A.8	W.M.	Earth	1,386	1.6	1	S-2	2,772	1,386	1,386	W.M.	W.M.	1,386		S-2	1,386
		1974	S.C. Agang Je'ne Ruas 9	B.A.8 - B.A.9	W.M.	W.M.	967	1.1	1	S-2	1,934	967	967	W.M.	W.M.	967		S-2	967
							11,783									11,783			11,783
SC-3	Secondary Canal	1974	S.C. Bontoa Ruas 1	B.A.5 - B.Ba.1	W.M.	W.M.	1,109	0.8	0.7	S-2	2,218	1,109	1,109	W.M.	W.M.			S-1	1,109
							1,109									0			1,109
SC-4	Secondary Canal	1974	S.C. Bonto Sunggu Ruas 1	B.A.8 - B.Bs.1	W.M.	W.M.	1,077	0.85	0.75	S-2	2,154	1,077	1,077	W.M.	W.M.			S-1	1,077
							1,077									0			1,077

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Kelara Karalloe (B.A: 10,000 ha)

Over All Ranking

2.9

Road Length for New As Pavement

L(m) = 60,518

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Rehab Length Canal (m)		New Canal Lining		Inspection Road (IR)			
					Side Wall	Bed						Side Wall	Bed	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)		
SC-5	Secondary Canal	1974	S.C. Bulu Bulu Ruas 1	B.KI.16 - B.B.1	W.M.	W.M.	1,460	1	2	S-2	2,920	1,460	1,460	W.M.	W.M.	1,460	Gr	S-2	1,460
		1974	S.C. Bulu Bulu Ruas 2	B.B.1 - B.B.2	Earth	Earth	1,750	1.8	1.3	S-2	1,750	1,750	1,750	W.M.	W.M.		As	S-1	1,750
		1974	S.C. Bulu Bulu Ruas 3	B.B.2 - B.B.3	W.M.	W.M.	1,483	1.8	1	S-2	2,966	1,483	1,483	W.M.	W.M.		As	S-1	1,483
		1974	S.C. Bulu Bulu Ruas 4	B.B.3 - B.B.4	W.M.	W.M.	1,231	1.8	1	S-2	6,155						As	S-1	1,231
		1974	S.C. Bulu Bulu Ruas 5	B.B.4 - B.B.5	W.M.	W.M.	475	1.35	0.9	S-5	2,375						As	S-1	475
		1974	S.C. Bulu Bulu Ruas 6	B.B.5 - B.B.6	W.M.	W.M.	867	1.35	0.9	S-5	4,335						As	S-1	867
		1974	S.C. Bulu Bulu Ruas 7	B.B.6 - B.B.7	W.M.	W.M.	679	1.3	1.1	S-5	3,395						As	S-1	679
		1974	S.C. Bulu Bulu Ruas 8	B.B.7 - B.B.8	Earth	Earth	629	1	0.8	S-3	1,887	629	629	W.M.	W.M.	629	Gr	S-5	629
		1974	S.C. Bulu Bulu Ruas 9	B.B.8 - B.B.9	Earth	Earth	1,015	1.2	1.5	S-2	2,030	1,015	1,015	W.M.	W.M.	1,015	Gr	S-5	1,015
		1974	S.C. Bulu Bulu Ruas 10	B.B.9 - B.B.10	W.M.	W.M.	410	0.7	0.8	S-2	820	410	410	W.M.	W.M.	410	Gr	S-1	410
		1974	S.C. Bulu Bulu Ruas 11	B.B.10 - B.B.11	W.M.	W.M.	416	0.7	0.8	S-5	2,080					416	Gr	S-1	416
							10,415									3,930			10,415
SC-6	Secondary Canal	1974	S.C. Bonto Burangeng Ruas 1	B.B.7 - B.Bb.1	Earth	Earth	785	1	1	S-2	1,570	785	785	W.M.	W.M.	785	As	S-1	785
		1974	S.C. Tarawang Ruas 1	B.KI.16 - BT.1	W.M.	PC	330	2	1.4	S-2	660	330	330	W.M.	W.M.	330	Gr	S-1	330
		1974	S.C. Tarawang Ruas 2	BT.1 - BT.2	W.M.	W.M.	591	2.2	1.4	S-2	1,182	591	591	W.M.	W.M.	591	Gr	S-1	591
		1974	S.C. Tarawang Ruas 3	BT.2 - BT.3	W.M.	Earth	521	1.8	1.4	S-2	1,042	521	521	W.M.	W.M.	404	Gr	S-1	521
		1974	S.C. Tarawang Ruas 4	BT.3 - BT.4	W.M.	W.M.	2,503	2.4	1.6	S-3	7,909	2,503	2,503	W.M.	W.M.	2,503	Gr	S-1	2,503
		1974	S.C. Tarawang Ruas 5	BT.4 - BT.5	W.M.	W.M.	1,594	2.4	1.6	S-2	3,188	1,594	1,594	W.M.	W.M.	1,594	Gr	S-1	1,594
		1974	S.C. Tarawang Ruas 6	BT.5 - BT.6	W.M.	W.M.	832	1.8	1.6	S-2	1,664	832	832	W.M.	W.M.	832	Gr	S-1	832
		1974	S.C. Tarawang Ruas 7	BT.6 - BT.7	W.M.	W.M.	680	0.7	0.6	S-2	1,360	680	680	W.M.	W.M.	680	Gr	S-1	680
		1974	S.C. Tarawang Ruas 8	BT.7 - S.Muka	Earth	Earth	1,933	0.7	0.8	S-2	3,866	1,933	1,933	W.M.	W.M.	1,933	Gr	S-1	1,933
		1974	S.C. Tarawang Ruas 9	BT.8 - S.Muka	Earth	Earth	950	0.7	0.8	S-2	1,900	950	950	W.M.	W.M.	950	Gr	S-1	950
		1974	S.C. Tarawang Ruas 10	BT.8 - S.Muka	Earth	Earth	435	0.7	0.8	S-2	870	435	435	W.M.	W.M.	435	Gr	S-1	435
		1974	S.C. Tarawang Ruas 9	BT.8 - BT.9	W.M.	W.M.	1,110	0.4	0.6	S-2	2,220	1,110	1,110	W.M.	W.M.	1,110	As	S-1	1,110
							11,479									11,362			11,479
SC-8	Secondary Canal	1974	S.C. Togo Togo Ruas 1	B.T.7 - B.Tt.1	W.M.	W.M.	1,187	0.6	0.7	S-2	2,374	1,187	1,187	W.M.	W.M.	837	Gr	S-1	1,187
		1974		B.Tt.1 - S.Muka	Earth	Earth	1,173	0.6	0.7	S-2	2,346	1,173	1,173	W.M.	W.M.	1,173	Gr	S-1	1,173
							2,360									2,010			2,360
SC-9	Secondary Canal	1974	S.C. Campagaya Ruas 1	BT.6 - B.C.1	W.M.	W.M.	1,126	0.8	1	S-5	5,630					1,126	As	S-5	0
		1974	S.C. Campagaya Ruas 2	B.C.1 - B.C.2	Earth	Earth	600	0.8	1	S-2	1,200	600	600	W.M.	W.M.	600	As	S-5	0
		1974	S.C. Campagaya Ruas 3	B.C.2 - B.C.3	W.M.	W.M.	1,806	0.8	1	S-5	9,030					1,806	As	S-5	0
		1974	S.C. Campagaya Ruas 4	B.C.3 - B.C.4	Earth	Earth	1,501	1	1	S-2	3,002	1,501	1,501	W.M.	W.M.	1,501	As	S-5	0
		1974	S.C. Campagaya Ruas 5	B.C.4 - B.C.5	W.M.	W.M.	869	0.8	1	S-5	4,345					869	As	S-5	0
		1974	S.C. Campagaya Ruas 6	B.C.5 - B.C.6	W.M.	W.M.	788	0.6	0.8	S-2	1,576	788	788	W.M.	W.M.	788	As	S-1	788
		1974	S.C. Campagaya Ruas 7	B.C.6 - B.C.7	W.M.	W.M.	963	0.6	0.8	S-2	1,926	963	963	W.M.	W.M.	963	As	S-1	963
		1974		B.C.7 - S.Muka	W.M.	W.M.	1,130	0.5	0.7	S-5	5,650	1,130	1,130	W.M.	W.M.	1,130	As	S-1	1,130
							8,783									8,783			2,881

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Kelara Karalloe (B.A: 10,000 ha) Over All Ranking 2.9 Road Length for New As Pavement L(m) = 60,518

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Rehab Length Canal (m)		New Canal Lining		Inspection Road (IR)			
					Side Wall	Bed						Side Wall	Bed	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)		
SC-10	Secondary Canal	1974	S.C. Bonto Mate ne Ruas 1	B.C.5 - B.Bt.1	W.M.	W.M.	676	0.5	0.7	S-5	3,380					676		S-1	676
				-	W.M.		676									676			676
SC-11	Secondary Canal	1974	S.C. Balang Loe Ruas 1	B.C.1 - B.Bl.1	W.M.	W.M.	1,361	0.5	0.6	S-5	6,805					1,361		S-5	1,361
				-	W.M.		1,361									1,361			1,361
SC-12	Secondary Canal	1974	S.C. Ganrang Batu Ruas 1	B.A.3 - B.G.1	W.M.	W.M.	1,929	2	0.8	S-2	3,858	1,929	1,929	W.M.	W.M.	1,929	As	S-5	0
		1974	S.C. Ganrang Batu Ruas 2	B.G.1 - B.G.2	W.M.	W.M.	1,974	2	0.74	S-2	3,948	1,974	1,974	W.M.	W.M.	1,974	As	S-5	0
		1974	S.C. Ganrang Batu Ruas 3	B.G.2 - B.G.3	W.M.	W.M.	1,884	1.28	1	S-5	9,420					1,884	As	S-5	0
		1974		B.G.3 - S.Muka	W.M.	W.M.	2,100	0.6	0.8	S-5	10,500					2,100			2,100
		1974	S.C. Ganrang Batu Ruas 4	B.G.3 - B.G.4	W.M.	W.M.	1,750	2	1	S-5	8,750					1,750	As	S-5	0
		1974	S.C. Ganrang Batu Ruas 5	B.G.4 - B.G.5	W.M.	W.M.	1,766	0.5	0.7	S-2	3,532	1,766	1,766	W.M.	W.M.	1,766	As	S-5	0
				-			11,403									11,403			2,100
SC-13	Secondary Canal	1974	S.C. Bonia Ruas 1	B.A.1 - B.Bn.1	W.M.	Earth	1,300	1	0.8	S-2	2,600	1,300	1,300	W.M.	W.M.				1,300
TOTAL				-			75,253				220,331					64,500			60,518

Over All Ranking 2.90

Symbol of Canal Lining Types Reinforced Concrete → RC
 Plain Concrete → PC
 Earth Canal → Earth

Wet Masonry → W.M.
 Block Masonry → Block

Concrete → Conc.
 Asphaltic Pavement → As
 Gravel Pavement → Gr

Primary Canal Length P1 10,815 m
 Secondary Canal Length SC13 64,438 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kelara Karalloe (B.A: 10,000 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
1	Permanent Weir	1974	Bendung	B.Kl.0	2021	S-5	S-5
1	Division with Off-take	1974	Bagunan Bagi dan Sadap	B.A.3	2021	S-2	S-2
2		1974	Bangunan Bagi Sadap	B.A.8	2021	S-2	S-2
3		1974	Bangunan Bagi Sadap	B.Bb.9	2021	S-5	S-5
4		1974	Bangunan Bagi Sadap	B.C.1	2021	S-5	S-5
5		1974	Bangunan Bagi Sadap	B.C.5	2021	S-5	S-5
6		1974	Bangunan Bagi Sadap	B.Kl.16	2021	S-5	S-5
7		1974	Bangunan Bagi Sadap	B.T.6	2021	S-2	S-2
8		1974	Bangunan Bagi Sadap	B.T.7	2021	S-2	S-2
9		1974	Bangunan Bagi Sadap	B.T.8	2021	S-5	S-5
1	Off-take Structure	1974	Bangunan Sadap	B.A.2	2021	S-2	S-2
2		1974	Bangunan Sadap	B.A.4	2021	S-2	S-2
3			Bangunan Sadap	B.A.4c (N)	2021	S-1	S-1
4		1974	Bangunan Sadap	B.A.6	2021	S-2	S-2
5		1974	Bangunan Sadap	B.A.7	2021	S-2	S-2
6		1974	Bangunan Sadap	B.A.9	2021	S-5	S-5
7		1974	Bangunan Sadap	B.A.9A	2021	S-2	S-2
8			Bangunan Sadap	B.A.11 (N)	2021	S-1	S-1
9			Bangunan Sadap	B.A.12 (N)	2021	S-1	S-1
10			Bangunan Sadap	B.A.13 (N)	2021	S-1	S-1
11			Bangunan Sadap	B.A.14 (N)	2021	S-1	S-1
12		1974	Bangunan Sadap	B.B.1	2021	S-5	S-5
13		1974	Bangunan Sadap	B.Ba.1	2021	S-2	S-2
14		1974	Bangunan Sadap	B.Bb.1	2021	S-5	S-5
15		1974	Bangunan Sadap	B.Bb.2	2021	S-2	S-2
16		1974	Bangunan Sadap	B.Bb.3	2021	S-2	S-2
17		1974	Bangunan Sadap	B.Bb.4	2021	S-5	S-5
18		1974	Bangunan Sadap	B.Bb.5	2021	S-2	S-2
19		1974	Bangunan Sadap	B.Bb.6	2021	S-5	S-5
20		1974	Bangunan Sadap	B.Bb.8	2021	S-5	S-5
21		1974	Bangunan Sadap	B.Bb.10	2021	S-5	S-5
22		1974	Bangunan Sadap	B.Bb.11	2021	S-5	S-5
23			Bangunan Sadap	B.Bb.12 (N)	2021	S-1	S-1
24		1974	Bangunan Sadap	B.Bl.1	2021	S-5	S-5
25		1974	Bangunan Sadap	B.Bn. 1	2021	S-5	S-5
26		1974	Bangunan Sadap	B.Bs. 1	2021	S-5	S-5
27		1974	Bangunan Sadap	B.Bt.1	2021	S-5	S-5
28		1974	Bangunan Sadap	B.C.2	2021	S-2	S-2
29		1974	Bangunan Sadap	B.C.3	2021	S-2	S-2
30		1974	Bangunan Sadap	B.C.4	2021	S-2	S-2
31		1974	Bangunan Sadap	B.C.6	2021	S-5	S-5
32		1974	Bangunan Sadap	B.C.7	2021	S-5	S-5
33		1974	Bangunan Sadap	B.G.1	2021	S-2	S-2
34		1974	Bangunan Sadap	B.G.1A	2021	S-2	S-2
35		1974	Bangunan Sadap	B.G.2	2021	S-2	S-2
36		1974	Bangunan Sadap	B.G.3	2021	S-2	S-2
37		1974	Bangunan Sadap	B.G.4	2021	S-5	S-5
38		1974	Bangunan Sadap	B.G.5	2021	S-5	S-5
39			Bangunan Sadap	B.G.6 (N)	2021	S-1	S-1
40			Bangunan Sadap	B.G.7 (N)	2021	S-1	S-1
41			Bangunan Sadap	B.G.8 (N)	2021	S-1	S-1
42			Bangunan Sadap	B.G.9 (N)	2021	S-1	S-1
43		1974	Bangunan Sadap	B.Kl. 1	2021	S-5	S-5
44		1995	Bangunan Sadap	B.Kl.10	2021	S-5	S-5
45		1995	Bangunan Sadap	B.Kl.11	2021	S-5	S-5
46		1995	Bangunan Sadap	B.Kl.12	2021	S-5	S-5
47		1995	Bangunan Sadap	B.Kl.13	2021	S-5	S-5
48		1995	Bangunan Sadap	B.Kl.14	2021	S-2	S-2

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kelara Karalloe (B.A: 10,000 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
49		1995	Bangunan Sadap	B.Kl.15	2021	S-2	S-2
50		1974	Bangunan Sadap	B.Kl.2	2021	S-5	S-5
51		1995	Bangunan Sadap	B.Kl.3	2021	S-5	S-5
52		1974	Bangunan Sadap	B.Kl.4	2021	S-5	S-5
53		1974	Bangunan Sadap	B.Kl.5	2021	S-5	S-5
54		1974	Bangunan Sadap	B.Kl.6	2021	S-5	S-5
55		1974	Bangunan Sadap	B.Kl.7	2021	S-5	
56		1995	Bangunan Sadap	B.Kl.8	2021	S-5	S-5
57		1995	Bangunan Sadap	B.Kl.9	2021	S-5	S-5
58		1974	Bangunan Sadap	B.M. 1	2021	S-2	S-2
59		1974	Bangunan Sadap	B.M. 2	2021	S-2	S-2
60			Bangunan Sadap	B.M. 3 (N)	2021	S-1	S-1
61		1974	Bangunan Sadap	B.T.1	2021	S-2	S-2
62		1974	Bangunan Sadap	B.T.2	2021	S-2	S-2
63		1974	Bangunan Sadap	B.T.3	2021	S-2	S-2
64		1974	Bangunan Sadap	B.T.4	2021	S-2	S-2
65		1974	Bangunan Sadap	B.T.5	2021	S-2	S-2
66			Bangunan Sadap	B.T.8M (N)	2021	S-1	S-1
67		1974	Bangunan Sadap	B.T.9	2021	S-5	S-5
68			Bangunan Sadap	B.T.10 (N)	2021	S-1	S-1
69			Bangunan Sadap	B.T.11 (N)	2021	S-1	S-1
70		1974	Bangunan Sadap	B.Tt.1	2021	S-5	S-5
1	Drainage Culvert	1974	Gorong-gorong Pembuang	B.A.2c	2021	S-5	
2		1974	Gorong-gorong Pembuang	B.A.5c	2021	S-5	
3		1974	Gorong-gorong Pembuang	B.A.9b	2021	S-2	
4		1974	Gorong-gorong Pembuang	B.B.1f	2021	S-5	
5		1974	Gorong-gorong Pembuang	B.Ba.1a	2021	S-5	
6		1974	Gorong-gorong Pembuang	B.Kl.14a	2021	S-2	
7		1974	Gorong-gorong Pembuang	B.Kl.15a	2021	S-2	
8		1974	Gorong-gorong Pembuang	B.Kl.16b	2021	S-5	
9		1974	Gorong-gorong Pembuang	B.Kl.1a	2021	S-5	
10		1974	Gorong-gorong Pembuang	B.Kl.1k	2021	S-5	
11		1974	Gorong-gorong Pembuang	B.Kl.1o	2021	S-5	
12		1974	Gorong-gorong Pembuang	B.Kl.1q	2021	S-5	
13		1974	Gorong-gorong Pembuang	B.Kl.2e	2021	S-5	
14		1974	Gorong-gorong Pembuang	B.Kl.3c	2021	S-5	
15		1974	Gorong-gorong Pembuang	B.Kl.3e	2021	S-5	
16		1974	Gorong-gorong Pembuang	B.Kl.5a	2021	S-5	
17		1974	Gorong-gorong Pembuang	B.Kl.9d	2021	S-5	
18		1974	Gorong-gorong Pembuang	B.M.3a	2021		
19		1974	Gorong-gorong Pembuang	B.T.2a	2021	S-5	
20		1974	Gorong-gorong Pembuang	B.T.2c	2021	S-5	
21		1974	Gorong-gorong Pembuang	B.T.4a	2021	S-5	
22		1974	Gorong-gorong Pembuang	B.T.4d	2021	S-5	
23		1974	Gorong-gorong Pembuang	B.T.5a	2021	S-5	
24		1974	Gorong-gorong Pembuang	B.T.5c	2021	S-5	
1	Road Culvert	1974	Gorong-gorong Jalan	B.Kl.2l	2021	S-5	
1	Aqueduct	1974	Talang	B.Kl.11a	2021	S-2	
2		1995	Talang	B.Kl.1c	2021	S-2	
3		1995	Talang	B.Kl.1f	2021	S-2	
4		1995	Talang	B.Kl.1r	2021	S-2	
5		1995	Talang	B.Kl.2f	2021	S-2	
6		1974	Talang	B.Kl.4a	2021	S-2	
7		1995	Talang	B.Kl.6b	2021	S-2	
8		1995	Talang	B.Kl.6c	2021	S-2	
9		1974	Talang	B.T.4e	2021	S-5	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kelara Karalloe (B.A: 10,000 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
1	Drop Structure	1974	Bangunan Terjun	B.A.1c	2021	S-2	
2		1974	Bangunan Terjun	B.A.1d	2021	S-2	
3		1974	Bangunan Terjun	B.A.1e	2021	S-2	
4		1974	Bangunan Terjun	B.A.2a	2021	S-2	
5		1974	Bangunan Terjun	B.A.2b	2021	S-2	
6		1974	Bangunan Terjun	B.A.3a	2021	S-2	
7		1974	Bangunan Terjun	B.A.3c	2021	S-2	
8		1974	Bangunan Terjun	B.A.4a	2021	S-2	
1	Closed Canal	1995	Saluran Tertutup	B.Kl.1h	2021	S-5	
2		1995	Saluran Tertutup	B.Kl.1i	2021	S-5	
3		1995	Saluran Tertutup	B.Kl.1j	2021	S-5	
4		1995	Saluran Tertutup	B.Kl.1l	2021	S-5	
5		1995	Saluran Tertutup	B.Kl.1n	2021	S-5	
6		1995	Saluran Tertutup	B.Kl.1p	2021	S-5	
7		1995	Saluran Tertutup	B.Kl.1s	2021	S-5	
8		1995	Saluran Tertutup	B.Kl.1t	2021	S-5	
9		1995	Saluran Tertutup	B.Kl.1u	2021	S-5	
10		1995	Saluran Tertutup	B.Kl.1v	2021	S-5	
11		1995	Saluran Tertutup	B.Kl.1w	2021	S-5	
12		1995	Saluran Tertutup	B.Kl.2a	2021	S-5	
13		1995	Saluran Tertutup	B.Kl.2b	2021	S-5	
14		1995	Saluran Tertutup	B.Kl.2d	2021	S-5	
15		1995	Saluran Tertutup	B.Kl.2i	2021	S-5	
16		1995	Saluran Tertutup	B.Kl.2j	2021	S-5	
17		1995	Saluran Tertutup	B.Kl.2k	2021	S-5	
18		1995	Saluran Tertutup	B.Kl.2n	2021	S-5	
19		1995	Saluran Tertutup	B.Kl.2o	2021	S-5	
20		1995	Saluran Tertutup	B.Kl.3a	2021	S-5	
21		1974	Saluran Tertutup	B.Kl.3d	2021	S-5	
22		1995	Saluran Tertutup	B.Kl.7a	2021	S-5	
23		1995	Saluran Tertutup	B.Kl.7b	2021	S-5	
24		1995	Saluran Tertutup	B.Kl.7e	2021	S-5	
25		1995	Saluran Tertutup	B.Kl.7g	2021	S-5	
26		1995	Saluran Tertutup	B.Kl.8a	2021	S-5	
27		1995	Saluran Tertutup	B.Kl.8b	2021	S-5	
28		1995	Saluran Tertutup	B.Kl.8c	2021	S-5	
29		1995	Saluran Tertutup	B.Kl.9a	2021	S-5	
30		1995	Saluran Tertutup	B.Kl.9b	2021	S-5	
31		1995	Saluran Tertutup	B.Kl.9c	2021	S-5	
32		1995	Saluran Tertutup	B.Kl.9e	2021	S-5	
1	Inlet Drainage	1974	Alur Pembuang	B.Bb.1c	2021	S-5	
2		1974	Alur Pembuang	B.Kl.1d	2021	S-5	
3		1974	Alur Pembuang	B.Kl.1g	2021	S-5	
4		1974	Alur Pembuang	B.Kl.1m	2021	S-5	
5		1974	Alur Pembuang	B.Kl.2c	2021	S-5	
6		1974	Alur Pembuang	B.Kl.7f	2021	S-5	
7		1974	Alur Pembuang	B.Kl.8d	2021	S-5	
1	Chute Structure	1974	Got Miring	B.A.1a	2021	S-5	
2		1974	Got Miring	B.B.1c	2021	S-5	
3		1974	Got Miring	B.Bb.1a	2021	S-5	
4		1974	Got Miring	B.Bb.1e	2021	S-5	
5		1974	Got Miring	B.Bb.2a	2021	S-5	
6		1974	Got Miring	B.Bb.2c	2021	S-5	
7		1974	Got Miring	B.Bb.3a	2021	S-5	
8		1974	Got Miring	B.Bb.3f	2021	S-5	
9		1974	Got Miring	B.Bb.4e	2021	S-5	
10		1974	Got Miring	B.Bb.6a	2021	S-5	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kelara Karalloe (B.A: 10,000 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
11		1974	Got Miring	B.Bb.8a	2021	S-5	
12		1974	Got Miring	B.Bb.9a	2021	S-5	
13		1974	Got Miring	B.Bn. 1a	2021	S-5	
14		1974	Got Miring	B.Bt.1a	2021	S-5	
15		1974	Got Miring	B.C.1a	2021	S-5	
16		1974	Got Miring	B.C.2a	2021	S-5	
17		1974	Got Miring	B.C.3a	2021	S-5	
18		1974	Got Miring	B.C.4a	2021	S-5	
19		1974	Got Miring	B.C.4d	2021	S-5	
20		1974	Got Miring	B.C.5a	2021	S-5	
21		1974	Got Miring	B.C.6a	2021	S-5	
22		1974	Got Miring	B.G.1a	2021	S-5	
23		1974	Got Miring	B.G.2a	2021	S-5	
24		1974	Got Miring	B.G.4a	2021	S-5	
25		1974	Got Miring	B.G.5a	2021	S-5	
26		1974	Got Miring	B.M. 1a	2021	S-5	
27		1974	Got Miring	B.T.7b	2021	S-5	
1	Bridge	1974	Jembatan	B.A.1b	2021	S-5	
2		1974	Jembatan	B.A.3b	2021	S-5	
3		1974	Jembatan	B.A.4d	2021	S-5	
4		1974	Jembatan	B.A.4f	2021	S-5	
5		1974	Jembatan	B.A.6a	2021	S-5	
6		1974	Jembatan	B.A.7a	2021	S-5	
7		1974	Jembatan	B.A.8c	2021	S-5	
8		1974	Jembatan	B.Bb.3c	2021	S-5	
9		1974	Jembatan	B.Bb.4d	2021	S-5	
10		1974	Jembatan	B.Bb.4f	2021	S-5	
11		1974	Jembatan	B.C.4c	2021	S-5	
12		1974	Jembatan	B.Kl.10d	2021	S-5	
13		1974	Jembatan	B.Kl.13a	2021	S-5	
14		1974	Jembatan	B.Kl.13b	2021	S-5	
15		1974	Jembatan	B.Kl.16a	2021	S-5	
16		1974	Jembatan	B.Kl.3b	2021	S-5	
17		1974	Jembatan	B.Kl.8e	2021	S-5	
18		1974	Jembatan	B.T.2d	2021	S-5	
19		1974	Jembatan	B.T.3a	2021	S-5	
20		1974	Jembatan	B.T.3b	2021	S-5	
21		1974	Jembatan	B.T.4c	2021	S-5	
22		1974	Jembatan	B.T.7a	2021	S-5	
1	Foot Bridge	1974	Jembatan Orang	B.Ba.1d	2021	S-5	
2		1974	Jembatan Orang	B.Bl.1a	2021	S-5	
3		1974	Jembatan Orang	B.Bl.1b	2021	S-5	
4		1974	Jembatan Orang	B.Bl.1c	2021	S-5	
5		1974	Jembatan Orang	B.Bl.1d	2021	S-5	
6		1974	Jembatan Orang	B.C.3b	2021	S-5	
7		1995	Jembatan Orang	B.Kl.6a	2021	S-5	
8		1974	Jembatan Orang	B.T.2b	2021	S-5	
9		1974	Jembatan Orang	B.T.4b	2021	S-5	
10		1974	Jembatan Orang	B.T.5b	2021	S-5	
1	Gatekeeper House	1974	Rumah Jaga	B.A.8	2021	S-4	
2		1974	Rumah Jaga	B.B.1	2021	S-4	
3		1974	Rumah Jaga	B.Bb.3	2021	S-4	
4		1974	Rumah Jaga	B.Bb.7	2021	S-4	
5		1974	Rumah Jaga	B.Kl.0	2021	S-4	
6		1974	Rumah Jaga	B.Kl.6	2021	S-4	
7		1974	Rumah Jaga	B.T.6	2021	S-4	
8		1974	Rumah Jaga	B.Bb.7	2021	S-4	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kelara Karalloe (B.A: 10,000 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
1	Division Structure	1974	Bagunan Bagi	B.A.5	2021	S-2	S-2
2		1974	Bagunan Bagi	B.A.1	2021	S-2	S-2
3			Bagunan Bagi	B.A.10 (N)	2021	S-1	S-1
4		1974	Bagunan Bagi	B.Bb.7	2021	S-2	S-2
1	Tertiary Box		Bangunan Akhir	Box.T (N)	2021	S-1	S-1
2	Side Spillway	1974	Bangunan Pelimpah samping	B.Kl.2g	2021	S-2	
3	Wasteway	1974	Bangunan Pembuang	B.Kl.1b	2021	S-5	
4	Cheek Structure	1974	Bangunan Pengatur	B.Kl.1e	2021	S-2	
5	Drainage Structure	1974	Bangunan Penguras	B.Kl.2h	2021	S-5	
6		1974	Bangunan Penguras	B.Kl.2m	2021	S-5	
7	Observator Office's Gate	1974	Pagar Kantor Pengamat		2021	S-4	
8	Drainage	1974	Penguras	B.Kl.7d	2021	S-5	
9	Downstream Drainage	1974	Penguras Hilir	B.Kl.10c	2021	S-5	
10	Upstream Drainage	1995	Penguras Hulu	B.Kl.10a	2021	S-5	
11	Observator Office	2021	Rumah Dinas Pengamat		2021	S-4	

TOTAL			
Number of structure	S-5	163	36
	S-4	10	0
	S-2	53	32
	S-1	16	16
	Sum (Nos)	326	84
Soundness Ranking	Average	4.04	3.10
	Structure Ave.	3.79	

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Lekopancing (B.A: 3,626 ha) Over All Ranking 2.80 Road Length for New As Pavement L (m) = 17,030

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Sound ness Ranking	Rehab Length Canal (m)		New Canal Lining		Inspection Road (IR)				
					Side Wall	Bed					Side Wall	Bed	Ex. Road Length (m)	Pave-ment	Sound-ness Ranking	New As Pavement Length (m)			
P-1	Primary Canal	1976	S.C. Lekopancing Ruas 1	B.L.0 - B.L.1	W.M.	Earth	75	5.50	1.70	S-3	3	225	75	W.M.	W.M.	0	Earth	S-2	75
		1976	S.C. Lekopancing Ruas 2	B.L.1 - B.L.2	W.M.	Earth	547	4.70	1.25	S-3	3	1,641	290	W.M.	W.M.	547	Gr	S-3	547
		1976	S.C. Lekopancing Ruas 3	B.L.2 - B.L.3	W.M.	Earth	1,135	4.80	1.25	S-3	3	3,405	715	W.M.	W.M.	1,100	Conc.	S-4	114
		1976	S.C. Lekopancing Ruas 4	B.L.3 - B.L.4	R.C.	R.C.	1,814	5	1.25	S-3	3	5,442	600	W.M.	W.M.	1,200	Conc.	S-4	181
		1976	S.C. Lekopancing Ruas 5	B.L.4 - B.L.5	W.M.	Earth	1,515	4.20	1.25	S-3	3	4,545	610	W.M.	W.M.	1,500	Gr	S-3	1,515
		1976	S.C. Lekopancing Ruas 6	B.L.5 - B.L.6	W.M.	Earth	670	5	1.20	S-3	3	2,010	450	W.M.	W.M.	670	Gr	S-3	670
							5,756					3,00		(Ref. Primary C. Ranking)		5,017			3,102
SC-1	Secondary Canal		S.C. Billa Ruas 1	B.L.6 - B.B.1	W.M.	Earth	1,540	4.50	1.30	S-3	3	4,620	324	W.M.	W.M.		Earth	S-2	1,540
			S.C. Billa Ruas 2	B.B.1 - B.B.2	W.M.	Earth	900	4.50	1.30	S-4	4	3,600	0	W.M.	W.M.	900	Conc.	S-4	90
			S.C. Billa Ruas 3	B.B.2 - B.B.3	W.M.	Earth	1,188	1.20	1.10	S-4	4	4,752	0	W.M.	W.M.		Gr	S-2	1,188
			S.C. Billa Ruas 4	B.B.3 - B.B.4	Earth	Earth	1,950	2	1.10	S-2	2	3,900	936	W.M.	W.M.		Gr	S-2	1,950
			S.C. Billa Ruas 5	B.B.4 - B.B.5	Earth	Earth	1,200	2	1.10	S-2	2	2,400	1345	W.M.	W.M.		Gr	S-2	1,200
			S.C. Billa Ruas 6	B.B.5 - B.B.6	Earth	Earth	900	2	1.10	S-1	1	900	877	W.M.	W.M.		Gr	S-2	900
							7,678					-			900				7,678
SC-2	Secondary Canal		S.C. Tumali Ruas 1	B.B.2 - B.T.1	W.M.	Earth	978	1.70	1.10	S-3	3	2,934	0	W.M.	W.M.	718	Conc.	S-5	0
			S.C. Tumali Ruas 2	B.T.1 - B.T.2	W.M.	Earth	1,482	1.70	1.10	S-2	3	4,446	0	W.M.	W.M.	1,482	Conc.	S-5	0
			S.C. Tumali Ruas 3	B.T.2 - B.T.3	Earth	Earth	730	1.80	1	S-3	2	1,460	730	W.M.	W.M.	730	Conc.	S-5	0
			S.C. Tumali Ruas 4	B.T.3 - B.T.4	Earth	Earth	1,128	2.00	1.20	S-2	2	2,256	1128	W.M.	W.M.	1,128	Conc.	S-4	113
			S.C. Tumali Ruas 5	B.T.4 - B.T.5	Earth	Earth	1,843	1.70	1.08	S-1	1	1,843	1843	W.M.	W.M.	1,843	As	S-5	0
			S.C. Tumali Ruas 6	B.T.5 - B.T.6	Earth	Earth	1,393	1.20	1.10	S-1	1	1,393	1393	W.M.	W.M.	1,093	Conc.	S-4	139
							7,554					-			6,994				252
SC-3	Secondary Canal		S.C. Amarang Ruas 1	B.B.2 - B.A.1	W.M.	Earth	1,590	2	1.10	S-4	4	6,360	300	W.M.	W.M.	1,590	Conc.	S-4	159
			S.C. Amarang Ruas 2	B.A.1 - B.A.2	W.M.	Earth	1,090	2	1.10	S-4	4	4,360	600	W.M.	W.M.	790	As	S-4	109
			S.C. Amarang Ruas 3	B.A.2 - B.A.3	W.M.	Earth	600	2	1.10	S-4	4	2,400	200	W.M.	W.M.	600	Conc.	S-4	60
			S.C. Amarang Ruas 4	B.A.3 - B.A.4	W.M.	Earth	1,400	2	1.10	S-4	4	5,600	500	W.M.	W.M.	1,400	As	S-4	140
			S.C. Amarang Ruas 5	B.A.4 - B.A.5	W.M.	Earth	800	2	1.10	S-4	4	3,200	250	W.M.	W.M.	500	As	S-4	80
			S.C. Amarang Ruas 6	B.A.5 - B.A.6	W.M.	Earth	1,600	1.10	1.10	S-4	4	6,400	0	W.M.	W.M.	1,600	As	S-4	160
			S.C. Amarang Ruas 7	B.A.6 - B.A.7	W.M.	Earth	600	1	1.10	S-4	4	2,400	50	W.M.	W.M.	600	As	S-4	60
			S.C. Amarang Ruas 8	B.A.7 - B.A.8	W.M.	Earth	1,900	1	1.10	S-2	2	3,800	600	W.M.	W.M.	1,900	As	S-4	190
							9,580					-			8,980				958
SC-4	Secondary Canal		S.C. Bila Ruas 1	B.A.3 - B.Bi.1	W.M.	Earth	642	1	0.9	S-2	2	1,284	400	W.M.	W.M.	642	As		642
SC-5	Secondary Canal		S.C. X Ruas 1	B.L.6 - B.X.1	Earth	Earth	1,270	2	1.20	S-1	1	1,270	1270	W.M.	W.M.		Gr	S-1	1,270
			S.C. X Ruas 2	B.X.1 - B.X.2	Earth	Earth	480	2	1.10	S-1	1	480	480	W.M.	W.M.		Earth	S-1	480
							1,750					-			0				1,750
SC-6	Secondary Canal		S.C. Makkaraeng Ruas 1	B.L.6 - B.Mk.1	W.M.	Earth	1,300	1.30	1.20	S-3	3	3,900	250	W.M.	W.M.	500	Conc.	S-3	1,300
			S.C. Makkaraeng Ruas 2	B.Mk.1 - B.Mk.2	W.M.	Earth	1,190	1.20	1.10	S-3	3	3,570	300	W.M.	W.M.	600	Conc.	S-3	1,190
			S.C. Makkaraeng Ruas 3	B.Mk.2 - B.Mk.3	W.M.	Earth	800	1.20	1.10	S-3	3	2,400	300	W.M.	W.M.	800	Conc.	S-3	800
							3,290								1,900				3,290
TOTAL							35,608			Over All Ranking		99,196			23,791		Concrete → Conc.		17,030

Concrete → Conc.
Asphaltic Pavement → As
Gravel Pavement → Gr

Over All Ranking **2.80**

Wet Masonry → W.M.
Block Masonry → Block
Earth Canal → Earth
Primary Canal Length P1 5,756 m
Secondary Canal Length SC-6 29,852 m

Reinforced Concrete → RC
Plain Concrete → PC
Earth Canal → Earth
Primary Canal Length P1 5,756 m
Secondary Canal Length SC-6 29,852 m

Note

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lekopancing (B.A: 3,626 ha)**

No	No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
							Ranking	Ranking
1	1	Permanent Weir	1973	Bendung Lekopancing	B.L.0	2021	S-4	S-3
1	Ta-1	Division with Off-take	1976	Bangunan Bagi Sadap	B.L.6	2021	S-4	S-4
2	Ta-2	Division with Off-take		Bangunan Bagi Sadap	B.A.3	2021	S-5	S-4
3	Ta-3	Division with Off-take		Bangunan Bagi Sadap	B.B.2	2021	S-4	S-4
4	Ta-4	Off-take Structure		Bangunan Sadap	B.A.1	2021	S-4	S-4
5	Ta-5	Off-take Structure		Bangunan Sadap	B.A.2	2021	S-5	S-4
6	BS-1	Off-take Structure		Bangunan Sadap	B.A.4	2021	S-5	S-2
7	Ta-6	Off-take Structure		Bangunan Sadap	B.A.5	2021	S-5	S-4
8	BS-2	Off-take Structure		Bangunan Sadap	B.A.6	2021	S-5	S-4
9	Ta-7	Off-take Structure		Bangunan Sadap	B.A.7	2021	S-2	S-4
10	Ta-8	Off-take Structure		Bangunan Sadap	B.A.8	2021	S-2	S-2
11	Ta-9	Off-take Structure		Bangunan Sadap	B.B.1	2021	S-2	S-1
12	Ta-10	Off-take Structure		Bangunan Sadap	B.B.3	2021	S-3	S-3
13	Ta-11	Off-take Structure		Bangunan Sadap	B.B.4	2021	S-3	S-3
14	Ta-12	Off-take Structure		Bangunan Sadap	B.B.5	2021	S-2	S-2
15	Ta-13	Off-take Structure		Bangunan Sadap	B.B.6	2021	S-1	S-1
16	Ta-14	Off-take Structure		Bangunan Sadap	B.BI.1	2021	S-4	S-4
17	Ta-15	Off-take Structure	1976	Bangunan Sadap	B.L.1	2021	S-2	S-1
18	Ta-16	Off-take Structure	1976	Bangunan Sadap	B.L.2	2021	S-3	S-4
19	Ta-17	Off-take Structure	1976	Bangunan Sadap	B.L.3	2021	S-4	S-3
20	Ta-18	Off-take Structure	1976	Bangunan Sadap	B.L.4	2021	S-3	S-4
21	BS-3	Off-take Structure	1976	Bangunan Sadap	B.L.5	2021	S-3	S-2
22	Ta-19	Off-take Structure		Bangunan Sadap	B.Mk. 1	2021	S-3	S-3
23	Ta-20	Off-take Structure		Bangunan Sadap	B.Mk.2	2021	S-4	S-4
24	Ta-21	Off-take Structure		Bangunan Sadap	B.Mk.3	2021	S-4	S-4
25	Ta-22	Off-take Structure		Bangunan Sadap	B.T.1	2021	S-5	S-4
26	Ta-23	Off-take Structure		Bangunan Sadap	B.T.2	2021	S-4	S-2
27	Ta-24	Off-take Structure		Bangunan Sadap	B.T.3	2021	S-4	S-4
28	Ta-25	Off-take Structure		Bangunan Sadap	B.T.4	2021	S-3	S-4
29	Ta-26	Off-take Structure		Bangunan Sadap	B.T.5	2021	S-2	S-2
30	Ta-27	Off-take Structure		Bangunan Sadap	B.T.6	2021	S-2	S-2
31	Ta-28	Off-take Structure		Bangunan Sadap	B.X.1	2021	S-1	S-1
32	Ta-29	Off-take Structure		Bangunan Sadap	B.X.2	2021	S-1	S-1
1	1	Gatekeeper House		Rumah Jaga primer		2021	S-2	
2	2	Gatekeeper House		Rumah Jaga primer		2021	S-2	
3	3	Gatekeeper House		Rumah Jaga Sekunder		2021	S-2	
4	4	Gatekeeper House		Rumah Jaga Sekunder		2021	S-2	
5	5	Gatekeeper House		Rumah Jaga Sekunder		2021	S-2	
6	6	Office		Kantor Ranting	Kantor	2021	S-3	

TOTAL			
Number of structure	S-5	6	0
	S-4	10	16
	S-3	8	5
	S-2	12	7
	S-1	3	5
	Sum (Nos)	72	39
Soundness Ranking	Average	3.10	2.97
	Structure Ave.	3.04	

IRRIGATION ASSET INVENTORY (Canal)

Nama Di: Bantimurung (B.A: 6.513 ha)		Over All Ranking										Road Length for New As Pavement										L (m) : 19,748	
No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Rehab. Length of Canal (m)			New Canal Lining		Inspection Road (IR)			REMARKS			
					Side Wall	Bed						Side Wall	Bed	Side Wall	Bed	Side Wall	Bed	Pave-ment	Sound-ness Ranking		New As Pavement Length (m)		
P-1	Primary Canal	1975	P.C. Bantimurung Ruas 1	B.B.0 - B.B.1	RC	Earth	3,000	4.20	3.80	S-3	3	9,000	200	3000	W.M.	RC	As	S-5	0	1.Needs measuring canal, 2.Sedimentation height 40cm			
		1984	P.C. Bantimurung Ruas 2	B.B.1 - B.B.2	W.M.	Earth	2,882	4.20	1.95	S-4	4	11,408	200	2882	W.M.	PC	As	S-5	0	Sedimentation height 40 cm			
		1984	P.C. Bantimurung Ruas 3	B.B.2 - B.B.3	W.M.	Earth	554	4.20	1.95	S-3	3	1,662	200	554	W.M.	PC	As	S-5	0	Sedimentation height 40 cm			
		1984	P.C. Bantimurung Ruas 4	B.B.3 - B.B.4	W.M.	Earth	280	4.20	1.95	S-3	3	750	83	280	W.M.	PC	As	S-5	0	Sedimentation height 40 cm			
		1984	P.C. Bantimurung Ruas 5	B.B.4 - B.B.5	W.M.	Earth	1,054	4	1.90	S-4	4	4,216	105	1054	W.M.	PC	As	S-5	0	Sedimentation height 40 cm			
		1984	P.C. Bantimurung Ruas 6	B.B.5 - B.B.6	W.M.	Earth	748	4	1.90	S-4	4	2,992	74	743	W.M.	PC	As	S-5	0	1.Needs top lining 300m,			
		1984	P.C. Bantimurung Ruas 7	B.B.6 - B.B.7	W.M.	Earth	742	4	2.40	S-4	4	2,968	70	742	W.M.	PC	As	S-3	742	2.Sedimentation height 70 cm			
		1975	P.C. Bantimurung Ruas 8	B.B.7 - B.B.8	W.M.	Earth	210	4	2.40	S-4	4	840	21	210	W.M.	PC	As	S-3	210	Sedimentation height 70 cm			
							9,410					33,836							952				
P-2	Primary Canal	1975	P.C. Sambueja Ruas 1	B.B.0 - B.Se.1	W.M.	Earth	2,675	1.50	1.70	S-3	3	8,025	845	2675	W.M.	RC	As	S-5	0	1.Sedimentation height 30 cm,			
		1984	P.C. Sambueja Ruas 2	B.Se.1 - B.Se.2	W.M.	Earth	675	1.50	1.40	S-4	4	2,700	675	675	RC	RC	Conc.	S-5	0	1.Sedimentation height 50 cm,			
		1984	P.C. Sambueja Ruas 3	B.Se.2 - B.Se.3	W.M.	Earth	1,065	0.90	1.40	S-2	2	2,130	743	1065	W.M.	RC	Earth	S-2	1,065	2.Needs top lining 600m			
							4,415					12,855							1,065				
S-1	Secondary Canal	1984	S.C. Bonti Bonti Ruas 1	B.B.1 - B.Bb.1	W.M.	Earth	2,405	1.8	1.87	S-4	4	9,620	885	2405	W.M.	PC	As	S-5	0	Needs top lining 985 m			
		1984	S.C. Bonti Bonti Ruas 2	B.Bb.1 - B.Bb.2	W.M.	Earth	1,216	1.8	1.32	S-4	4	4,864	270	1216	W.M.	PC	As	S-5	0				
		1984	S.C. Bonti Bonti Ruas 3	B.Bb.2 - B.Bb.3	W.M.	Earth	1,903	1.90	1.08	S-4	4	7,612	425	1903	W.M.	PC	As	S-5	0				
		1984	S.C. Bonti Bonti Ruas 4	B.Bb.3 - B.Bb.4	W.M.	Earth	1,210	1.3	1.45	S-4	4	4,840	1210	1210	PC	PC	Conc.	S-5	0				
							6,734					26,936							6,734				
S-2	Secondary Canal	1985	S.C. Malewang Ruas 1	B.Bb.1 - B.Ma.1	Earth	Earth	981	0.90	1	S-2	2	1,962	805	981	W.M.	PC	Earth	S-2	981				
							981					1,962							981				
S-3	Secondary Canal	1986	S.C. Maros Ruas 1	B.B.8 - B.M.1	W.M.	Earth	700	1.80	1.80	S-3	3	2,100	23	700	W.M.	PC	Conc.	S-1	700	Sedimentation height 80 cm			
		1986	S.C. Maros Ruas 2	B.M.1 - B.M.2	W.M.	Earth	946	1.60	1.80	S-4	4	3,784	90	946	W.M.	PC	Conc.	S-5	0	Sedimentation height 80 cm			
		1986	S.C. Maros Ruas 3	B.M.2 - B.M.3	W.M.	Earth	1,020	1.60	1.80	S-2	2	2,040	1020	1,020	W.M.	PC	Conc.	S-4	1,020	Sedimentation height 80 cm			
		1986	S.C. Maros Ruas 4	B.M.3 - B.M.4	W.M.	Earth	2,414	1.50	1.30	S-2	2	4,828	2414	2,414	W.M.	PC	Conc.	S-5	0	Sedimentation height 65 cm			
		1990	S.C. Maros Ruas 5	B.M.4 - B.M.5	W.M.	Earth	1,388	1.20	1.30	S-4	4	5,472	1388	1,388	W.M.	PC	Conc.	S-5	0				
		1990	S.C. Maros Ruas 6	B.M.5 - B.M.6	W.M.	Earth	1,202	1.20	1.40	S-2	2	2,404	583	1,202	W.M.	PC	Conc.	S-5	0				
		1990	S.C. Maros Ruas 7	B.M.6 - B.M.7	W.M.	Earth	1,560	0.60	1.00	S-1	1	1,560	829	1,560	W.M.	PC	Earth	S-2	1,560	Sedimentation height 25 cm			
							9,200					22,178							2,362				
S-4	Secondary Canal	1990	S.C. Tekolakbua Ruas 1	B.M.4 - B.TL.1	W.M.	PC	786	2	1.00	S-4	4	3,144							786				
		1990	S.C. Tekolakbua Ruas 2	B.TL.1 - B.TL.2	W.M.	Earth	1,613	1.50	1.00	S-2	2	3,226	1613						1,613		Sedimentation height 50 cm		
							2,399					6,370							2,399				
S-5	Secondary Canal	1990	S.C. Kanjijongan Ruas 1	B.M.7 - B.K.1	W.M.	Earth	1,034	0.80	1.00	S-2	2	2,068	884	1,034	W.M.	PC	Conc.	S-5	0				
							1,034					2,068							1,034				
S-6	Secondary Canal	1975	S.C. Jamala Ruas 1	B.B.8 - B.J.1	W.M.	Earth	1,609	3	1.71	S-5	5	8,045	1,609						1,609		1.Needs top lining 1609 m, 2. Sedimentation height 40cm		
		1985	S.C. Jamala Ruas 2	B.J.1 - B.J.2	W.M.	Earth	363	3	1.6	S-3	3	1,059	20	363	W.M.	PC	Conc.	S-5	0	1.Needs top lining 363 m, 2. Sedimentation height 40cm			
		1985	S.C. Jamala Ruas 3	B.J.2 - B.J.3	W.M.	Earth	927	3	1.25	S-4	4	3,708	450	927	W.M.	PC	Earth	S-2	927	Needs top lining 500 m			
		1985	S.C. Jamala Ruas 4	B.J.3 - B.J.4	W.M.	Earth	677	2.70	1.5	S-4	4	2,708	220	677	W.M.	PC	Earth	S-1	677	1.Needs top lining 677 m, 2. Sedimentation height 30cm			
		1985	S.C. Jamala Ruas 5	B.J.4 - B.J.5	W.M.	Earth	1,436	2.50	1.57	S-4	4	5,744	750	1,436	W.M.	PC	E/Conc.	S-2	1,436	1.Needs top lining 750 m, 2. Sedimentation height 20cm			
		1985	S.C. Jamala Ruas 6	B.J.5 - B.J.6	W.M.	Earth	450	2.50	1.57	S-4	4	1,800	100	450	W.M.	PC	Conc.	S-4	450	Sedimentation height 20cm			
		1985	S.C. Jamala Ruas 7	B.J.6 - B.J.7	W.M.	Earth	1,007	2.50	1.57	S-1	1	1,007	780	1,007	W.M.	PC	Conc.	S-2	1,007	1.Needs top lining 350 m, 2. Sedimentation height 40cm			
		1985	S.C. Jamala Ruas 8	B.J.7 - B.J.8			1,051			S-1	1	1,051							1,051		Canal and structures are gone (turned into road)		

IRRIGATION ASSET INVENTORY (Canal)

Nama Di: Bantimurung (B.A: 6.513 ha)		Road Length for New As Pavement										L (m) : 19,748									
No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Rehab. Length of Canal (m)			New Canal Lining		Inspection Road (IR)		REMARKS		
					Side Wall	Bed						Side Wall	Bed	Side Wall	Bed	Pave-ment	Sound-ness Ranking	New As Pavement Length (m)			
S-7	Secondary Canal	1985	S.C. Soreang Ruas 1	B.J.2 - B.S-1	W.M.	Earth	7,610	1,70	1,45	S-4	4	26,122	270	787	W.M.	PC	Conc.	5,023	5,143	1, Needs top lining 400 m. 2. Sedimentation height 50cm	
		1985	S.C. Soreang Ruas 2	B.S-1 - B.S-2	W.M.	Earth	197	1,10	0,90	S-4	4	788	45	197	W.M.	PC	As	197	0	1, Needs top lining 197 m. 2. Sedimentation height 40cm	
		1985	S.C. Soreang Ruas 3	B.S-2 - B.S-3	W.M.	Earth	1,307	1,10	1,30	S-4	4	5,228	25	1307	W.M.	PC	As	1307	0	1, Needs top lining 600 m. 2. Sedimentation height 50cm	
S-8	Secondary Canal	1990	S.C. Bontoa Ruas 1	B.J.7 - B.Bt.1	W.M.	Earth	2,291	3,20	1,10	S-4	4	9,164	550	782	W.M.	PC	Gr	2,291	0	Sedimentation height 40 cm	
		1990	S.C. Bontoa Ruas 2	B.Bt.1 - B.Bt.2	W.M.	Earth	1,350	3	1,45	S-3	3	4,050	850	1350	W.M.	PC	As	300	1,350	Sedimentation height 60 cm	
		1990	S.C. Bontoa Ruas 3	B.Bt.2 - B.Bt.3	W.M.	Earth	1,137	3	1,25	S-3	3	3,411	600	1137	W.M.	PC	As	415	1,137	Sedimentation height 60 cm	
		1990	S.C. Bontoa Ruas 4	B.Bt.3 - B.Bt.4	W.M.	Earth	194	3	1,25	S-3	3	582	194	194	W.M.	PC	As	194	0	Sedimentation height 60 cm	
		1990	S.C. Bontoa Ruas 5	B.Bt.4 - B.Bt.5	Earth	Earth	1,791			S-1	1	1,791							3,269		
S-9	Secondary Canal	1990	S.C. Cambaya Ruas 1	B.J.7 - B.C.1	W.M.	Earth	5,264	2	1,26	S-3	3	12,962	763	673	W.M.	PC	As	578	76		
		1990	S.C. Cambaya Ruas 2	B.C.1 - B.C.2	Earth	Earth	686	1	1,20	S-2	2	1,372	415	415	W.M.	PC	As	686	0		
							1,449					3,661						1,264	76		
S-10	Secondary Canal	1990	S.C. Maranek Ruas 1	B.C.1 - B.Mr.1	W.M.	Earth	1,490	1,10	1,32	S-2	2	2,980	1071	1490	W.M.	PC	Gr	1,040	1,490	1, Needs top lining 200 m	
							1,490					2,980						1,040	1,490		
S-11	Secondary Canal	1984	S.C. Bonto Leko Ruas 1	B.Se.1 - B.Bt.1	W.M.	Earth	1,300	1,50	1,40	S-4	4	5,200	300	1300	W.M.	RC	Earth	1,300	1,300	Sedimentation height 50 cm	
		1984	S.C. Bonto Leko Ruas 1	B.Bt.1 - B.Bt.2	W.M.	Earth	1,135	1,50	1,40	S-4	4	4,540	100	1135	W.M.	RC	Conc.	885	1,135	Sedimentation height 50 cm	
							2,435					9,740						2,185	2,435		
TOTAL							54,602			Over All		169,834						45,418	19,748		

Note.: Symbol of Canal Lining Types : Reinforced Concrete →RC
 Plain Concrete → PC
 Earth Canal →Earth
 Wet Masonry → W.M.
 Block Masonry →Block
 Concrete →Conc.
 Asphaltic Pavement → As
 Gravel Pavement →Gr

Primary Canal Length P2 13,825 m
 Secondary Canal Length SC11 40,777 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**Nama DI Bantimurung (B.A: 6,513 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
1	Inspection Office	1980	Kantor Pengamat		2021	S-2		Provincial asset
1	Weir	1919	Bendung Batubassi	B.B.0	2021	S-4		
2	Gate keeper house	1974	Rumah Jaga Bendung		2021	S-3		
Structure in Bantimurung area								
1	Division with off-take	1975	Bangunan Bagi Sadap	B.B.1	2021	S-4	S-5	
2		1975	Bangunan Bagi Sadap	B.B.8	2021	S-4	S-4	Needs measuring structure towards S.C. Jamala
3								
4	Off-take structure	1984	Bangunan Sadap	B.B.2	2021	S-5	S-5	
5		1984	Bangunan Sadap	B.B.3	2021	S-4	S-5	
6		1984	Bangunan Sadap	B.B.4	2021	S-4	S-5	Needs measuring structure
7		1984	Bangunan Sadap	B.B.5	2021	S-5	S-5	
8		1984	Bangunan Sadap	B.B.6	2021	S-4	S-5	Needs measuring structure
9		1984	Bangunan Sadap	B.B.7	2021	S-5	S-5	
1	Bridge	1975	Jembatan	B.B.1a	2021	S-5		
2		1975	Jembatan	B.B.1c	2021	S-5		
3		1984	Jembatan	B.B.3c	2021	S-5		
4		1984	Jembatan	B.B.5b	2021	S-5		
5		1984	Jembatan	B.B.7b	2021	S-5		
6		1984	Jembatan	B.B.7c	2021	S-5		
7	Foot bridge	1984	Jembatan Orang	B.B.2a	2021	S-5		
8		1984	Jembatan Orang	B.B.2b	2021	S-5		
9		1984	Jembatan Orang	B.B.2c	2021	S-5		
10		1984	Jembatan Orang	B.B.2d	2021	S-5		
11		1984	Jembatan Orang	B.B.2e	2021	S-5		
12		1984	Jembatan Orang	B.B.2f	2021	S-5		
13		1984	Jembatan Orang	B.B.2g	2021	S-5		
14		1984	Jembatan Orang	B.B.3a	2021	S-4		
15		1984	Jembatan Orang	B.B.3b	2021	S-5		
16		1984	Jembatan Orang	B.B.5a	2021	S-5		
17		1984	Jembatan Orang	B.B.5c	2021	S-5		
18		1984	Jembatan Orang	B.B.6a	2021	S-5		
19		1984	Jembatan Orang	B.B.7a	2021	S-5		
3	Gatekeeper house	1974	Rumah Jaga		2021	S-3		
4		1974	Rumah jaga		2021	S-2		
5		1980	Rumah Jaga		2021	S-3		
1	Spillway structure (Others)	1975	Bangunan Pelimpah	B.B.1b	2021	S-4		
Structure in Bonti-Bonti area								
10	Division with off-take	1984	Bangunan Bagi Sadap	B.Bb.1	2021	S-4	S-5	
11	Off-take structure	1984	Bangunan Sadap	B.Bb.2	2021	S-3	S-3	
12		1984	Bangunan Sadap	B.Bb.3	2021	S-4	S-4	
13		1984	Bangunan Sadap	B.Bb.4	2021	S-3	S-4	
2	Aqueduct (Others)	1984	Talang	B.Bb.4a	2021	S-5		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**Nama DI Bantimurung (B.A: 6,513 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
20	Bridge	1984	Jembatan Orang	B.Bb.1a	2021	S-3		
21		1984	Jembatan Orang	B.Bb.1b	2021	S-4		
22		1984	Jembatan Orang	B.Bb.1c	2021	S-4		
23		1984	Jembatan Orang	B.Bb.1d	2021	S-4		
24		1984	Jembatan Orang	B.Bb.2a	2021	S-4		
25		1984	Jembatan Orang	B.Bb.2b	2021	S-4		
26		1984	Jembatan Orang	B.Bb.3a	2021	S-4		
27		1984	Jembatan Orang	B.Bb.3b	2021	S-4		
28		1984	Jembatan Orang	B.Bb.3c	2021	S-4		
29		1984	Jembatan Orang	B.Bb.3d	2021	S-4		
30		1984	Jembatan Orang	B.Bb.3e	2021	S-3		
6	Gatekeeper house	1980	Rumah Jaga		2021	S-3		
	Structure in Malewang area							
14	Off-take structure	1985	Bangunan Sadap	B.Ma.1	2021	S-4	S-5	
	Structure in Maros area							
15	Division with off-take	1990	Bangunan Bagi Sadap	B.M.4	2021	S-3	S-5	Needs measuring structure towards S.C. Maros
16		1990	Bangunan Bagi Sadap	B.M.6	2021	S-4	S-3	Needs measuring structure towards S.C. Maros
17	Off-take structure	1986	Bangunan Sadap	B.M.1	2021	S-2	S-5	
18		1986	Bangunan Sadap	B.M.2	2021	S-5	S-4	
19		1986	Bangunan Sadap	B.M.3	2021	S-4	S-5	
20		1990	Bangunan Sadap	B.M.5	2021	S-4	S-5	Needs measuring structure towards S.C. Maros
21		1990	Bangunan Sadap	B.M.7	2021	S-3	S-2	
3	Drainage culvert	1986	Gorong-Gorong Pembuar	B.M.1b	2021	S-4		
4	(Others)	1986	Gorong-Gorong Pembuar	B.M.2b	2021	S-4		
5		1986	Gorong-Gorong Pembuar	B.M.3b	2021	S-5		
31	Bridge	1986	Jembatan	B.M.1a	2021	S-5		
32	Foot bridge	1986	Jembatan Orang	B.M.1c	2021	S-5		
33		1986	Jembatan Orang	B.M.2a	2021	S-5		
34		1986	Jembatan Orang	B.M.3a	2021	S-5		
35		1986	Jembatan Orang	B.M.3c	2021	S-5		
36		1986	Jembatan Orang	B.M.3d	2021	S-5		
37		1986	Jembatan Orang	B.M.4a	2021	S-1		
38		1986	Jembatan Orang	B.M.4b	2021	S-2		
39		1986	Jembatan Orang	B.M.4c	2021	S-1		
40		1986	Jembatan Orang	B.M.4d	2021	S-1		
41		1990	Jembatan Orang	B.M.5a	2021	S-1		
42		1990	Jembatan Orang	B.M.5b	2021	S-2		
43		1990	Jembatan Orang	B.M.5c	2021	S-1		
44		1990	Jembatan Orang	B.M.5d	2021	S-1		
45		1990	Jembatan Orang	B.M.6a	2021	S-3		
46		1990	Jembatan Orang	B.M.6b	2021	S-3		
47		1990	Jembatan Orang	B.M.6c	2021	S-1		
48		1990	Jembatan Orang	B.M.7a	2021	S-5		
7	Gatekeeper house	1974	Rumah Jaga		2021	S-1		
8		1974	Rumah Jaga		2021	S-3		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**Nama DI Bantimurung (B.A: 6,513 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
Structure in Tekolabbua area								
22	Off-take structure	1990	Bangunan Sadap	B.TI.1	2021	S-4	S-2	Needs measuring structure towards Tekolabbua
23		1990	Bangunan Sadap	B.TI.2	2021	S-3	S-2	Needs gate/additional block
49	Bridge	1990	Jembatan	B.TI.2c	2021	S-1		
50	Foot bridge	1990	Jembatan Orang	B.TI.1a	2021	S-4		
51		1990	Jembatan Orang	B.TI.2a	2021	S-1		
52		1990	Jembatan Orang	B.TI.2b	2021	S-4		
Structure in Kanjitongan area								
24	Off-take	1990	Bangunan Sadap	B.K.1	2021	S-5	S-5	
6	Aqueduct	1990	Talang	B.K1c	2021	S-5		
53	Foot bridge	1990	Jembatan Orang	B.K1a	2021	S-1		
54		1990	Jembatan Orang	B.K1b	2021	S-1		
Structure in Jamala area								
25	Division with off-take	1985	Bangunan Bagi Sadap	B.J.2	2021	S-4	S-5	Needs measuring structure towards S.C. Jamala
26		1985	Bangunan Bagi Sadap	B.J.7	2021	S-5	S-3	Needs measuring structure towards S.C. Bontoa
27	Off-take structure	1975	Bangunan Sadap	B.J.1	2021	S-4	S-5	
28		1985	Bangunan Sadap	B.J.3	2021	S-4	S-5	
29		1985	Bangunan Sadap	B.J.4	2021	S-5	S-5	Needs measuring structure towards S.C. Jamala
30		1985	Bangunan Sadap	B.J.5	2021	S-5	S-4	
31		1985	Bangunan Sadap	B.J.6	2021	S-4	S-5	Needs measuring structure towards S.C. Jamala
32		1985	Bangunan Sadap	B.J.8	2021	S-1	S-1	
7	Culvert	1985	Gorong-gorong	B.J.3c	2021	S-5		
55	Bridge	1990	Jembatan	B.J.1a	2021	S-4		
56		1990	Jembatan	B.J.1b	2021	S-4		
57		1985	Jembatan	B.J.3b	2021	S-5		
58		1985	Jembatan	B.J.4a	2021	S-5		
59		1985	Jembatan	B.J.5b	2021	S-4		
60	Foot bridge	1990	jembatan Orang	B.J.1c	2021	S-4		
61		1990	jembatan Orang	B.J.1d	2021	S-4		
62		1985	jembatan Orang	B.J.3a	2021	S-5		
63		1985	jembatan Orang	B.J.5a	2021	S-4		
64		1985	jembatan Orang	B.J.5d	2021	S-4		
65		1985	jembatan Orang	B.J.5e	2021	S-4		
66		1985	jembatan Orang	B.J.7a	2021	S-5		
67		1985	jembatan Orang	B.J.7b	2021	S-1		Needs additional culvert
9	Gatekeeper house	1974	Rumah Jaga		2021	S-3		
10		1974	Rumah Jaga		2021	S-3		
8	Buffalo pool	1985	kubangan hewan	B.J.5c	2021	S-2		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**Nama DI Bantimurung (B.A: 6,513 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
Structure in Soreang area								
33	Off-take structure	1985	Bangunan Sadap	B.S-1	2021	S-5	S-5	
34		1985	Bangunan Sadap	B.S-2	2021	S-4	S-3	
35		1985	Bangunan Sadap	B.S-3	2021	S-5	S-4	
68	Bridge	1985	jembatan	B.S-1a	2021	S-5		
69	Foot bridge	1985	jembatan Orang	B.S-1b	2021	S-5		
70		1985	jembatan Orang	B.S-3a	2021	S-5		
71		1985	jembatan Orang	B.S-3b	2021	S-5		
72		1985	jembatan Orang	B.S-3c	2021	S-5		
Structure in Bontoa area								
36	Off-take structure	1990	Bangunan Sadap	B.Bt.1	2021	S-4	S-2	Needs measuring structure towards S.C. Bontoa
37		1990	Bangunan Sadap	B.Bt.2	2021	S-3	S-3	Needs measuring structure towards S.C. Bontoa
38		1990	Bangunan Sadap	B.Bt.3	2021	S-4	S-5	
39		1990	Bangunan Sadap	B.Bt.4	2021	S-2	S-2	
40		1990	Bangunan Sadap	B.Bt.5	2021	S-1	S-1	
9	Culvert	1990	Gorong-Gorong	B.Bt.1b	2021	S-5		
73	Bridge	1990	Jembatan	B.Bt.2b	2021	S-5		
74	Foot bridge	1990	Jembatan Orang	B.Bt.1a	2021	S-5		
75		1990	Jembatan Orang	B.Bt.2a	2021	S-5		
76		1990	Jembatan Orang	B.Bt.2c	2021	S-5		
77		1990	Jembatan Orang	B.Bt.2d	2021	S-5		
78		1990	Jembatan Orang	B.Bt.3a	2021	S-5		
79		1990	Jembatan Orang	B.Bt.3b	2021	S-5		
80		1990	Jembatan Orang	B.Bt.3c	2021	S-5		
81		1990	Jembatan Orang	B.Bt.4	2021	S-5		
Structure in Cambayya area								
41	Division with off-take	1990	Bangunan Bagi Sadap	B.C.1	2021	S-1	S-3	Needs measuring structure towards S.C. Marana
42	Off-take structure	1990	Bangunan Sadap	B.C.2	2021	S-3	S-5	
10	Culvert	1990	Gorong-Gorong	B.C.1c	2021	S-5		
		1990	Gorong-Gorong	B.Mr.1b	2021	S-5		
82	Bridge	1990	Jembatan	B.C.1a	2021	S-5		
83		1990	Jembatan	B.C.1b	2021	S-5		
84		1990	Jembatan	B.Mr.1a	2021	S-5		
Structure in Marana area								
43	Off-take structure	1990	Bangunan Sadap	B.Mr.1	2021	S-3	S-2	
Structure in Bontoleko area								
44	Off-take structure	1984	Bangunan Sadap	B.Bl.1	2021	S-4	S-4	
45		1984	Bangunan Sadap	B.Bl.2	2021	S-5	S-5	
85	Foot bridge	1984	Jembatan Orang	B.Bl.1a	2021	S-5		
86		1984	Jembatan Orang	B.Bl.1b	2021	S-5		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**Nama DI Bantimurung (B.A: 6,513 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
Structure in Sambueja area								
46	Division with off-take	1975	Bangunan Bagi Sadap	B.Se.1	2021	S-5	S-5	
47	Off-take structure	1984	Bangunan Sadap	B.Se.2	2021	S-5		
48		1984	Bangunan Sadap	B.Se.3	2021	S-2	S-2	
87	Bridge	1984	Jembatan	B.Se.1b	2021	S-5		
88		1984	Jembatan	B.Se.1c	2021	S-5		
89		1984	Jembatan	B.Se.1h	2021	S-5		
90		1984	Jembatan	B.Se.2a	2021	S-5		
91		1984	Jembatan	B.Se.2d	2021	S-5		
92	Foot bridge	1984	Jembatan Orang	B.Se.1a	2021	S-5		
93		1984	Jembatan Orang	B.Se.1d	2021	S-5		
94		1984	Jembatan Orang	B.Se.1e	2021	S-5		
95		1984	Jembatan Orang	B.Se.1f	2021	S-5		
96		1984	Jembatan Orang	B.Se.1g	2021	S-5		
97		1984	Jembatan Orang	B.Se.2c	2021	S-5		
98		1984	Jembatan Orang	B.Se.3a	2021	S-5		
12	Gatekeeper house	1980	Rumah Jaga		2021	S-1		
11	Syphon	1984	Siphon	B.Se.2b	2021	S-5		

Total			
Number of structure	S-5	81	24
	S-4	44	7
	S-3	19	6
	S-2	8	7
	S-1	17	2
	Sum (Nos)	215	46
Soundness Ranking	Average	3.97	3.96
	Structure Ave.	3.97	

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Lamasi Kanan (B.A: 6,617 ha)		Over All Ranking			Road Length for New As Pavement			Road Length for New As Pavement			L (m) = 66,789								
No	Type of Asset	Year Built	Canal (Section) Name	Division Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Rehab. Length of Canal (m)		New Canal Lining		Inspection Road (IR)			
					Side Wall	Bed						Side Wall	Bed	Dinding	Alas	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)
P-1	Primary Canal Lamasi Kanan	1981	P.C. Lamasi Kanan Ruas	B.L.0 - B.L.1	W.M.	W.M.	692	8.40	1.50	S-2	2	1,384				692	Conc		692
			P.C. Lamasi Kanan Ruas	B.L.1 - B.L.2	W.M.	W.M.	412	8.40	1.50	S-2	2	824	30	W.M.	W.M.	412	Gr		412
				B.L.2 - S. Muka	W.M.	W.M.	15	1.00	0.50	S-4	4	60	5	W.M.	W.M.	15			15
			3	B.L.2 - B.L.3	W.M.	Earth	812	10.4	1.40	S-2	2	1,624	500	W.M.	W.M.	100	Gr		812
			P.C. Lamasi Kanan Ruas	B.L.3 - B.L.4	W.M.	Earth	955	8.50	1.40	S-2	2	1,910	500	W.M.	W.M.	200	Gr		955
			5	B.L.4 - B.L.5	W.M.	Earth	773	8.00	1.03	S-2	2	1,546	550	W.M.	W.M.	100	Gr		773
			P.C. Lamasi Kanan Ruas	B.L.5 - B.L.6	W.M.	Earth	350	8.00	1.02	S-2	2	700	200	W.M.	W.M.	200	Gr		350
			7	B.L.6 - B.L.7	PA	Earth	1,107	10.5	1.08	S-2	2	2,214	800	W.M.	W.M.	107	Gr		1,107
				B.L.6 - S. Muka	W.M.	W.M.	7	1.00	0.60			-	0			0			7
			8	B.L.7 - B.L.8	W.M.	Earth	206	10.50	1.08	S-1	1	206	150	W.M.	W.M.	100	Gr		206
			P.C. Lamasi Kanan Ruas	B.L.8 - B.L.9	W.M.	Earth	1,266	7.40	1.15	S-2	2	2,532	1000	W.M.	W.M.	1,266	Gr		1,266
				B.L.9 - S. Muka	W.M.	W.M.	8	1.00	0.50			-	0			0			8
			P.C. Lamasi Kanan Ruas	B.L.9 - B.L.10	W.M.	Earth	336	7.40	1.05	S-1	1	336	300	W.M.	W.M.	336	Gr		336
			P.C. Lamasi Kanan Ruas	B.L.10 - B.L.11	W.M.	Earth	938	4.85	1.75	S-1	1	938	800	W.M.	W.M.	938	Gr		938
				B.L.11 - S. Muka	W.M.	W.M.	10	1.00	0.50	S-5	5	50	0			0			10
			P.C. Lamasi Kanan Ruas	B.L.11 - B.L.12	W.M.	Earth	975	4.60	1.75	S-1	1	975	850	W.M.	W.M.	975	Gr		975
				B.L.12 - S. Muka	W.M.	W.M.	7	1.00	0.50	S-5	5	35	0			0			7
			P.C. Lamasi Kanan Ruas	B.L.12 - B.L.13	W.M.	Earth	1,360	8.35	1.05	S-2	2	2,720	500	W.M.	W.M.	360	Gr		1,360
			P.C. Lamasi Kanan Ruas	B.L.13 - B.L.14	W.M.	Earth	500	7.65	1.45	S-2	2	1,000	200	W.M.	W.M.	500	Gr		500
			P.C. Lamasi Kanan Ruas	B.L.14 - B.L.15	W.M.	Earth	227	8.60	1.50	S-2	2	454	150	W.M.	W.M.	227	Gr		227
			P.C. Lamasi Kanan Ruas	B.L.15 - B.L.16	W.M.	Earth	267	8.00	1.50	S-2	2	534	100	W.M.	W.M.	267	Gr		267
			P.C. Lamasi Kanan Ruas	B.L.16 - B.L.17	W.M.	Earth	1,647	7.40	1.00	S-2	2	3,294	1000	W.M.	W.M.	1,647	Gr		1,647
							12,870					23,336				8,442			12,870
P-2	Primary Canal	2015	P.C. Padang Alipan Ruas	B.Bka.0 - B.Bka.1	W.M.	W.M.	204	2.00	1.00	S-3	3	612	100	W.M.	W.M.	204	Gr		204
			P.C. Padang Alipan Ruas	B.Bka.1 - B.Bka.2	W.M.	W.M.	760	2.00	1.00	S-4	4	3,040	200	W.M.	W.M.	760	Gr		760
			P.C. Padang Alipan Ruas	B.Bka.2 - B.Bka.3	W.M.	W.M.	240	2.00	1.00	S-2	2	480	50	W.M.	W.M.	240	Gr		240
							1,204					4,132				1,204			1,204

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Location Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Road Length for New As Pavement				Inspection Road (IR)											
					Side Wall	Bed						Rehab. Length of Canal (m)	Bed	Dinding	Alas	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)								
DI Name: Lamasi Kanan (B.A: 6,617 ha)																			Over All Ranking			2.61			L (m) = 66,789		
S-1	Secondary Canal	2005	S.C. Battang Ruas 1	B.L.2 - B.B.1	W.M.	W.M.	819	8.60	1.50	S-2	2	1,638	600	819	W.M.	819	Gr		819								
			S.C. Battang Ruas 2	B.B.1 - B.B.2	W.M.	W.M.	1,117	7.30	1.70	S-1	1	1,117	1,117	1,117	W.M.	800	Gr		1,117								
			S.C. Battang Ruas 3	B.B.2 - B.B.3	W.M.	W.M.	508	7.30	1.02	S-2	2	1,016	508	508	W.M.	400	Gr		508								
			S.C. Battang Ruas 4	B.B.3 - B.B.4	W.M.	W.M.	1,347	7.30	1.02	S-2	2	2,694	1000	1,347	W.M.	600	Gr		1,347								
			S.C. Battang Ruas 5	B.B.4 - B.B.5	W.M.	W.M.	1,260	6.80	1.70	S-2	2	2,520	700	1,260	W.M.	800	Gr		1,260								
			S.C. Battang Ruas 6	B.B.5 - B.B.6	W.M.	W.M.	400	6.80	1.70	S-2	2	800	300	450	W.M.	400	AS		400								
			S.C. Battang Ruas 7	B.B.6 - B.B.7	W.M.	W.M.	1,628	4.80	1.50	S-1	1	1,628	1,400	1,400	W.M.	1,628	AS		1,628								
			S.C. Battang Ruas 8	B.B.7 - B.B.8	W.M.	W.M.	1,031	4.80	1.50	S-2	2	2,062	800	1,031	W.M.	1,031	Gr		1,031								
			S.C. Battang Ruas 9	B.B.8 - B.B.9	W.M.	W.M.	663	4.80	1.50	S-2	2	1,326	500	500	W.M.	663	Gr		663								
			S.C. Battang Ruas 10	B.B.9 - B.B.10	W.M.	W.M.	500	4.80	1.50	S-2	2	1,000	400	400	W.M.	500	Gr		500								
			S.C. Battang Ruas 11	B.B.10 - B.B.11	W.M.	W.M.	479	4.80	1.50	S-2	2	958	350	350	W.M.	479	Gr		479								
			S.C. Battang Ruas 12	B.B.11 - B.B.12	W.M.	W.M.	485	4.90	1.70	S-2	2	970	350	350	W.M.	485	Gr		485								
			S.C. Battang Ruas 13	B.B.12 - B.B.13	W.M.	W.M.	474	4.50	1.50	S-2	2	948	300	300	W.M.	474	Gr		474								
			S.C. Battang Ruas 14	B.B.13 - B.B.14	W.M.	W.M.	1,087	4.50	1.50	S-2	2	2,174	850	850	W.M.	1,087	Gr		1,087								
			S.C. Battang Ruas 15	B.B.14 - B.B.15	W.M.	W.M.	765	4.50	1.50	S-1	1	765	300	150	W.M.	765	Gr		765								
			S.C. Battang Ruas 16	B.B.15 - B.B.16	W.M.	W.M.	900	4.50	1.50	S-4	4	3,600	300	200	W.M.	900	Gr		900								
			S.C. Battang Ruas 17	B.B.16 - B.B.17	W.M.	W.M.	830	4.50	1.50	S-4	4	3,320	300	200	W.M.	830	Gr		830								
			S.C. Battang Ruas 18	B.B.17 - B.B.18	W.M.	W.M.	336	4.50	1.30	S-1	1	336	336	150	W.M.	336	AS		336								
			S.C. Battang Ruas 19	B.B.18 - B.B.19	W.M.	W.M.	669	4.50	1.30	S-3	3	2,007	200	100	W.M.	669	Gr		669								
							15,298					30,879				13,666			15,298								
S-2	Secondary Canal	2017	S.C. Salu Battang Ruas 1	B.B.19 - B.Sb.1	W.M.	W.M.	524	4.00	1.70	S-3	3	1,572	150	150	W.M.	400	Gr		524								
			S.C. Salu Battang Ruas 2	B.Sb.1 - B.Sb.2	W.M.	W.M.	781	4.00	1.70	S-3	3	2,343	250	250	W.M.	500	Gr		781								
							1,305					3,915				900			1,305								

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Station Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Road Length for New As Pavement				L (m) = 66,789			
					Side Wall	Bed						Rehab. Length of Canal (m)	New Canal Lining	Inspection Road (IR)					
					Over All Ranking		2.61												
					Side Wall	Bed						Side Wall	Bed	Dinding	Alas	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)
S-3	Secondary Canal	2017	S.C. Lamasi Pantai Ruas	B.B.19 - B.Lp.1	W.M.	W.M.	585	1.50	1.00	S-3	3	1,755	150	W.M.	W.M.	500	Gr		585
			S.C. Lamasi Pantai Ruas	B.Lp.1 - B.Lp.2	W.M.	W.M.	576	1.50	1.00	S-2	2	1,152	100	W.M.	W.M.	450	Gr		576
			S.C. Lamasi Pantai Ruas	B.Lp.2 - B.Lp.3	W.M.	W.M.	383	1.50	1.00	S-2	2	766	60	W.M.	W.M.	300	Gr		383
			S.C. Lamasi Pantai Ruas	B.Lp.3 - B.Lp.4	W.M.	W.M.	485	1.50	1.00	S-2	2	970	150	W.M.	W.M.	350	Gr		485
			S.C. Lamasi Pantai Ruas	B.Lp.4 - B.Lp.5	W.M.	W.M.	369	1.50	1.00	S-2	2	738	100	W.M.	W.M.	300	Gr		369
							2,398					5,381				1,900			2,398
S-4	Secondary Canal	2015	S.C. Karetan Ruas 1	B.L.3 - B.K.1	W.M.	W.M.	1,368	3.10	1.00	S-1	1	1,368	800	W.M.	W.M.	1,368	Gr		1,368
			S.C. Karetan Ruas 2	B.K.1 - B.K.2	W.M.	W.M.	1,359	2.50	0.80	S-1	1	1,359	800	W.M.	W.M.	1,359	Gr		1,359
			S.C. Karetan Ruas 3	B.K.2 - B.K.3	W.M.	W.M.	1,349	2.00	0.90	S-2	2	2,698	500	W.M.	W.M.	1,349	Gr		1,349
			S.C. Karetan Ruas 4	B.K.3 - B.K.4	W.M.	W.M.	794	0.80	0.80	S-3	3	2,382	200	W.M.	W.M.	794	AS		794
			S.C. Karetan Ruas 5	B.K.4 - B.K.5	W.M.	W.M.	492	0.50	0.75	S-3	3	1,476	200	W.M.	W.M.	492	AS		492
							5,362					9,283				5,362			5,362
S-5	Secondary Canal	2013	S.C. Pongrakka Ruas 1	B.L.15 - B.P.1	W.M.	W.M.	858	3.60	0.86	S-4	4	3,432	350	W.M.	W.M.	858	Gr		858
			S.C. Pongrakka Ruas 2	B.P.1 - B.P.2	W.M.	W.M.	784	3.60	1.00	S-4	4	3,136	200	W.M.	W.M.	784	Gr		784
			S.C. Pongrakka Ruas 3	B.P.2 - B.P.3	W.M.	W.M.	883	3.60	1.00	S-4	4	3,532	250	W.M.	W.M.	883	AS		883
			S.C. Pongrakka Ruas 4	B.P.3 - B.P.4	W.M.	W.M.	495	3.60	1.00	S-4	4	1,980	300	W.M.	W.M.	495	AS		495
			S.C. Pongrakka Ruas 5	B.P.4 - B.P.5	W.M.	W.M.	752	3.60	1.00	S-4	4	3,008	400	W.M.	W.M.	752	Gr		752
			S.C. Pongrakka Ruas 6	B.P.5 - B.P.6	W.M.	W.M.	700	0.90	0.80	S-2	2	1,400	210	W.M.	W.M.	700	Contc + AS		700
			S.C. Pongrakka Ruas 7	B.P.6 - B.P.7	W.M.	W.M.	840	0.90	0.80	S-2	2	1,680	240	W.M.	W.M.	840	AS		840
							5,312					18,168				5,312			5,312
S-6	Secondary Canal	2012	S.C. Polo Padang Ruas 1	B.L.17 - B.Pp.1	W.M.	W.M.	1,185	2.00	1.06	S-3	3	3,555	750	W.M.	W.M.	1,185	Gr		1,185
			S.C. Polo Padang Ruas 2	B.Pp.1 - B.Pp.2	W.M.	W.M.	1,300	1.80	1.03	S-3	3	3,900	300	W.M.	W.M.	1,300	Gr		1,300
			S.C. Polo Padang Ruas 3	B.Pp.2 - B.Pp.3	W.M.	W.M.	1,620	1.80	1.06	S-3	3	4,860	400	W.M.	W.M.	1,620	Gr		1,620
			S.C. Polo Padang Ruas 4	B.Pp.3 - B.Pp.4	W.M.	W.M.	750	1.50	0.94	S-3	3	2,250	200	W.M.	W.M.	750	Gr		750
			S.C. Polo Padang Ruas 5	B.Pp.4 - B.Pp.5	W.M.	W.M.	1,300	1.50	0.88	S-4	4	5,200	300	W.M.	W.M.	1,300	Gr		1,300
			S.C. Polo Padang Ruas 6	B.Pp.5 - B.Pp.6	W.M.	W.M.	1,350	1.50	0.72	S-4	4	5,400	100	W.M.	W.M.	1,350	Gr		1,350
			S.C. Polo Padang Ruas 7	B.Pp.6 - B.Pp.7	W.M.	W.M.	700	1.20	0.69	S-4	4	2,800	100	W.M.	W.M.	700	Gr		700
							8,205					27,965				8,205			8,205

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Location Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Road Length for New As Pavement			Inspection Road (IR)					
					Side Wall	Bed						Rehab. Length of Canal (m)	New Canal Lining	Alas	Dinding	Bed	Road Length (m)	Exist. Pavement	Soundness Ranking	New As Pavement Length (m)
DI Name: Lamasi Kanan (B.A: 6,617 ha) Over All Ranking 2.61 Road Length for New As Pavement L (m) = 66,789																				
S-7	Secondary Canal	2013	S.C. Singosari Ruas 1	B.L.17 - B.S.1	W.M.	W.M.	522	2.00	0.91	S-4	4	2,088	450	W.M.	W.M.	522	Gr	522		
			S.C. Singosari Ruas 2	B.S.1 - B.S.2	W.M.	W.M.	1,292	2.00	0.85	S-4	4	5,168	1000	W.M.	W.M.	1,292	Gr	1,292		
			S.C. Singosari Ruas 3	B.S.2 - B.S.3	W.M.	W.M.	1,365	2.00	0.80	S-4	4	5,460	1000	W.M.	W.M.	1,365	Gr	1,365		
			S.C. Singosari Ruas 4	B.S.3 - B.S.4	W.M.	W.M.	500	2.00	0.63	S-4	4	2,000	400	W.M.	W.M.	500	Gr	500		
			S.C. Singosari Ruas 5	B.S.4 - B.S.5	W.M.	W.M.	1,100	2.00	0.58	S-4	4	4,400	900	W.M.	W.M.	1,100	Gr	1,100		
			S.C. Singosari Ruas 6	B.S.5 - B.S.6	W.M.	W.M.	280	2.00	0.53	S-4	4	1,120	200	W.M.	W.M.	150	Gr	280		
			S.C. Singosari Ruas 7	B.S.6 - B.S.7	W.M.	W.M.	725	2.00	0.48	S-4	4	2,900	600	W.M.	W.M.	500	Gr	725		
			S.C. Singosari Ruas 8	B.S.7 - B.S.8	W.M.	W.M.	537	2.00	0.45	S-4	4	2,148	450	W.M.	W.M.	400	Gr	537		
							6,321					25,284				5,829		6,321		
S-8	Secondary Canal	2015	S.C. Salu Tete Ruas 1	B.Bka.3 - B.St.1	W.M.	W.M.	180	1.50	0.80	S-2	2	360	80	W.M.	W.M.	180	Gr	180		
			S.C. Salu Tete Ruas 2	B.St.1 - B.St.2	W.M.	W.M.	827	1.50	0.80	S-2	2	1,654	300	W.M.	W.M.	827	Gr	827		
			S.C. Salu Tete Ruas 3	B.St.2 - B.St.3	W.M.	W.M.	888	1.50	0.80	S-3	3	2,664	300	W.M.	W.M.	888	AS	888		
			S.C. Salu Tete Ruas 4	B.St.3 - B.St.4	W.M.	W.M.	475	1.50	0.75	S-1	1	475	100	W.M.	W.M.	475	Gr	475		
			S.C. Salu Tete Ruas 5	B.St.4 - B.St.5	W.M.	W.M.	570	1.50	0.75	S-3	3	1,710	100	W.M.	W.M.	570	Gr	570		
			S.C. Salu Tete Ruas 6	B.St.5 - B.St.6	W.M.	W.M.	930	1.50	0.70	S-4	4	3,720	300	W.M.	W.M.	930	Gr	930		
			S.C. Salu Tete Ruas 7	B.St.6 - B.St.7	W.M.	W.M.	1,211	1.50	0.70	S-4	4	4,844	500	W.M.	W.M.	1,211	AS	1,211		
							5,081					15,427				5,081		5,081		
S-9	Secondary Canal	2015	S.C. Batu Ruas 1	B.Bka.3 - B.Bt.1	W.M.	W.M.	240	2.00	1.50	S-3	3	720	50	W.M.	W.M.	40	Gr	240		
			S.C. Batu Ruas 2	B.Bt.1 - B.Bt.2	W.M.	W.M.	465	2.00	1.50	S-3	3	1,395	150	W.M.	W.M.	65	Gr	465		
			S.C. Batu Ruas 3	B.Bt.2 - B.Bt.3	W.M.	W.M.	542	1.50	1.40	S-3	3	1,626	200	W.M.	W.M.	100	Gr	542		
			S.C. Batu Ruas 4	B.Bt.3 - B.Bt.4	W.M.	W.M.	650	1.50	1.40	S-3	3	1,950	150	W.M.	W.M.	300	Gr	650		
			S.C. Batu Ruas 5	B.Bt.4 - B.Bt.5	W.M.	W.M.	236	1.40	1.30	S-3	3	708	50	W.M.	W.M.	150	Gr	236		
			S.C. Batu Ruas 6	B.Bt.5 - B.Bt.6	W.M.	W.M.	842	1.40	1.30	S-3	3	2,526	300	W.M.	W.M.	100	Gr	842		
			S.C. Batu Ruas 7	B.Bt.6 - B.Bt.7	W.M.	W.M.	458	1.10	1.00	S-3	3	1,374	100	W.M.	W.M.	100	Gr	458		
							3,433					10,299				855		3,433		
TOTAL												174,069			56,756			66,789		

Concrete → Conc.
Asphaltic Pavement → As
Gravel Pavement → Gr

Over All Ranking 2.61

Reinforced Concrete → RC
Plain Concrete → PC
Earth Canal → Earth

Wet Marsonry → W.M.
Block Masonry → Block

Primary Canal Length P 2 14,074 m
Secondary Canal Length SC 9 52,715 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kanan (B.A: 6,617 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical
						Ranking	Ranking
1	Permanent weir	1979	Bendung Lamasi	B.L.0	2021	S-5	
2	Suppletion weir	2015	Bendung Suplesi Padang	B.Bka.0	2021	S-3	S-4
1	Off-take structure	2005	Bangunan sadap	B.B.1	2021	S-4	S-4
2		2005	Bangunan sadap	B.B.4	2021	S-3	S-4
3		2005	Bangunan sadap	B.B.5	2021	S-3	S-4
4		2012	Bangunan sadap	B.B.6	2021	S-1	S-1
5		2012	Bangunan sadap	B.B.7e	2021	S-1	S-1
6		2012	Bangunan sadap	B.B.8c	2021	S-1	S-1
7		2012	Bangunan sadap	B.B.9	2021	S-1	S-1
8		2012	Bangunan sadap	B.B.10	2021	S-1	S-1
9		2012	Bangunan sadap	B.B.11	2021	S-4	S-4
10		2012	Bangunan sadap	B.B.12	2021	S-4	
11		2012	Bangunan sadap	B.B.13	2021	S-4	S-4
12		2012	Bangunan sadap	B.B.16	2021	S-5	S-4
13		2012	Bangunan sadap	B.B.17	2021	S-5	S-4
14		2012	Bangunan sadap	B.B.18d	2021	S-4	S-4
15		2015	Bangunan sadap	B.Bka.1	2021	S-3	S-4
16		2015	Bangunan sadap	B.Bka.2	2021	S-2	S-4
17		2017	Bangunan sadap	B.Lp.1	2021	S-4	S-4
18		2017	Bangunan sadap	B.Lp.1a	2021	S-4	S-4
19		2017	Bangunan sadap	B.Lp.2	2021	S-4	S-4
20		2017	Bangunan sadap	B.Lp.3	2021	S-4	S-4
21		2017	Bangunan sadap	B.Lp.4	2021	S-4	S-4
22		2017	Bangunan sadap	B.Lp.5	2021	S-4	S-4
23		2015	Bangunan sadap	B.K.1	2021	S-4	S-2
24		2015	Bangunan sadap	B.K.2	2021	S-1	S-4
25		2015	Bangunan sadap	B.K.3	2021	S-4	S-4
26		2015	Bangunan sadap	B.K.4	2021	S-4	S-4
27		2015	Bangunan sadap	B.K.5	2021	S-4	S-4
28		1981	Bangunan Sadap	B.L.1	2021	S-5	S-4
29		1981	Bangunan Sadap	B.L.4	2021	S-2	S-4
30		1981	Bangunan Sadap	B.L.5	2021	S-4	S-4
31		1981	Bangunan Sadap	B.L.7	2021	S-5	S-4
32		1985	Bangunan sadap	B.L.8	2021	S-3	S-4
33		1985	Bangunan sadap	B.L.9	2021	S-4	S-4
34		1985	Bangunan sadap	B.L.10	2021	S-4	S-4
35		1985	Bagunan sadap	BL. 11	2021	S-3	S-4
36		1985	Bangunan Sadap	B.L.12	2021	S-4	
37		1985	Bangunan sadap	B.L.13	2021	S-2	S-4
38		1985	Bangunan Sadap	BL. 14	2021	S-1	S-4
39		1985	Bangunan Sadap	B.L.16	2021	S-2	S-1
40		2013	Bangunan sadap	B.S.5	2021	S-4	S-4
41		2013	Bangunan sadap	B.S.6	2021	S-4	S-4
42		2017	Bangunan sadap	B.S.7	2021	S-4	S-4
43		2017	Bangunan sadap	B.S.8	2021	S-4	S-4
44		2017	Bangunan sadap	B.Sb.1 (Salu Battang)	2021	S-4	S-4
45		2017	Bangunan sadap	B.Sb.2	2021	S-4	S-4
46		2015	Bangunan Sadap	B.St.1	2021	S-2	S-4
47		2015	Bangunan Sadap	B.St.2	2021	S-4	S-4
48		2015	Bangunan Sadap	B.St.3	2021	S-2	S-4
49		2015	Bangunan Sadap	B.St.4	2021	S-2	S-4
50		2015	Bangunan Sadap	B.St.5	2021	S-2	S-4
51		2015	Bangunan Sadap	B.St.6	2021	S-4	S-4
52		2015	Bangunan Sadap	B.St.7	2021	S-5	S-4

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kanan (B.A: 6,617 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical
						Ranking	Ranking
53	Division with off-take	2017	Bangunan bagi sadap	B.B.19	2021	S-4	S-4
54		1981	Bangunan Bagi Sadap	B.L.2	2021	S-4	S-2
55		1981	Bagunan bagi sadap	B.L.3	2021	S-3	S-4
56		1985	Bangunan Bagi Sadap	B.L.15	2021	S-4	S-4
57		2015	Bangunan Bagi Sadap	B.L.17	2021	S-1	S-1
58		2015	Bangunan Bagi Sadap	B.Bka.3	2021	S-2	S-4
1	Culvert	2015	Gorong-gorong jalan	B.K.2i	2021	S-4	
2		2013	Gorong-gorong jalan	BS. 2a	2021	S-4	
3	Aqueduct	2005	Talang	B.B.2c	2021	S-1	
4		2005	Talang	B.B.4b	2021	S-3	
5		2015	Talang	B.K.5a	2021	S-4	
6		2016	Talang	B.P.2e	2021	S-5	
1	Drop structure	2005	Bangunan terjun	B.B.1a	2021	S-3	
2		2005	Bangunan terjun	B.B.1b	2021	S-1	
3		2005	Bangunan terjun	B.B.1c	2021	S-1	
4		2005	Bangunan terjun	B.B.2a	2021	S-1	
5		2005	Bangunan terjun	B.B.2b	2021	S-1	
6		2005	Bangunan terjun	B.B.4a	2021	S-3	
7		2005	Bangunan terjun	B.B.4c	2021	S-3	
8		2005	Bangunan terjun	B.B.4d	2021	S-3	
9		2005	Bangunan terjun	B.B.4e	2021	S-3	
10		2005	Bangunan terjun	B.B.4f	2021	S-3	
11		2005	Bangunan terjun	B.B.5b	2021	S-3	
12		2015	Bangunan terjun	B.K.1e	2021	S-4	
13		2015	Bangunan terjun	B.K.1f	2021	S-4	
14		2015	Bangunan terjun	B.K.1h	2021	S-4	
15		2015	Bangunan terjun	B.K.2c	2021	S-2	
16		2015	Bangunan terjun	B.K.2d	2021	S-1	
17		2015	Bangunan terjun	B.K.2e	2021	S-4	
18		2015	Bangunan terjun	B.K.2f	2021	S-4	
19		1981	Bangunan terjun	B.L.3b	2021	S-4	
20		1981	Bangunan terjun	B.L.3c	2021	S-4	
21		1981	Bangunan terjun	B.L.3d	2021	S-3	
22		1981	Bangunan terjun	B.L.4a	2021	S-1	
23		1981	Bangunan Terjun	B.L.4b	2021	S-1	
24		1981	Bangunan terjun	B.L.4c	2021	S-1	
25		1981	Banguan terjun	B.L.5a	2021	S-1	
26		1981	Bangunan terjun	B.L.5b	2021	S-1	
27		1981	Bangunan terjun	B.L.5c	2021	S-1	
28		1981	Bangunan terjun	B.L.7a	2021	S-1	
29		1981	Bangunan terjun	B.L.7b	2021	S-1	
30		1981	Bangunan terjun	B.L.7c	2021	S-1	
31		1985	Bangunan terjun	B.L.8a	2021	S-2	
32		1985	Bangunan terjun	B.L.9a	2021	S-1	
33		1985	Bangunan terjun + jembatan	B.L.11a	2021	S-3	
34		1985	Bangunan terjun	B.L.11b	2021	S-5	
35		1985	Bangunan terjun	B.L.12a	2021	S-5	
36		2015	Bangunan terjun	B.L.17a	2021	S-3	
7	Syphon	2012	Siphon	B.B.7a	2021	S-3	
1	Bridge		Jembatan	B.L.1a	2021	S-5	
2		1981	Jembatan	B.L.2a	2021	S-5	
3		2012	Jembatan	B.B.7b	2021	S-2	
4		2012	Jembatan	B.B.7c	2021	S-2	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kanan (B.A: 6,617 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical
						Ranking	Ranking
5	Foot bridge	2012	Jembatan orang	B.B.7d	2021	S-2	
6		2012	Jembatan orang	B.B.8a	2021	S-2	
7		2012	Jembatan orang	B.B.8b	2021	S-2	
8		2012	Jembatan orang	B.B.8c	2021	S-2	
9		2012	Jembatan orang	B.B.8d	2021	S-2	
10		2012	Jembatan orang	B.B.9a	2021	S-3	
11		2012	Jembatan orang	B.B.11 a	2021	S-4	
12		2012	Jembatan orang	B.B.13a	2021	S-4	
13		2012	Jembatan orang	B.B.14a	2021	S-4	
14		2012	Jembatan orang	B.B.14b	2021	S-4	
15		2012	Jembatan orang	B.B.15a	2021	S-5	
16		2015	Jembatan orang	B.K.1a	2021	S-4	
17		2015	Jembatan orang	B.K.1b	2021	S-4	
18		2015	Jembatan orang	B.K.1c	2021	S-4	
19		2015	Jembatan orang	B.K.1d	2021	S-4	
20		2015	Jembatan orang	B.K.1i	2021	S-4	
21		2015	Jembatan orang	B.K.2a	2021	S-4	
22		2015	Jembatan orang	B.K.2b	2021	S-4	
23		2015	Jembatan orang	B.K.2h	2021	S-4	
24		2015	Jembatan orang	B.K.3a	2021	S-4	
25		2015	Jembatan orang	B.K.3b	2021	S-4	
26		1985	Jembatan orang	B.L.8b	2021	S-2	
27		2005	Jembatan orang	BL. 11 c	2021	S-5	
28		2010	Jembatan orang	B.L.11 d	2021	S-5	
29		2013	Jembatan orang	B.P.2c	2021	S-5	
30		2013	Jembatan orang	BP. 2d	2021	S-5	
31		2013	Jembatan orang	BP. 2d	2021	S-5	
32		2013	Jembatan orang	BS. 1a	2021	S-4	
8	Measuring Structure	2015	Bangunan ukur	B.K.3e	2021	S-5	

TOTAL			
Number of structure	S-5	18	0
	S-4	55	48
	S-3	20	0
	S-2	19	2
	S-1	24	7
	Sum (Nos)	193	136
Soundness Ranking	Average	3.18	3.56
	Structure Ave.	3.29	

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Road Length for New As Pavement			Inspection Road (IR)			L (m) = 41,395
					Side Wall	Bed						Rehab. Length of Canal (m)	Bed	Alas	Road Length (m)	Pave-ment	Soundness Ranking	
P-1	Primary Canal	1981	P.C. Pompengan Ruas 1	BP. 0 - BP. 1	W.M.	W.M.	283	11.00	1.25	S-3	849	283	283	As	S-5	0		
		1981	P.C. Pompengan Ruas 2	BP. 1 - BP. 2	W.M.	W.M.	576	1.00	1.50	S-3	1,728	576	400	As	S-5	0		
		1981	P.C. Pompengan Ruas 3	BP. 2 - BP. 3	W.M.	W.M.	298	1.00	1.50	S-3	894	298	150	Conc.	S-5	0		
		1981	P.C. Pompengan Ruas 4	BP. 3 - BP. 4	W.M.	W.M.	1,463	1.00	1.50	S-3	4,389	1,463	800	As	S-5	0		
		1981	P.C. Pompengan Ruas 5	BP. 4 - BP. 5	W.M.	W.M.	1,303	1.00	1.50	S-3	3,909	1,303	700	As	S-5	0		
		1981	P.C. Pompengan Ruas 6	BP. 5 - BP. 6	W.M.	W.M.	816	1.00	1.50	S-3	2,448	816	200	Gr	S-3	816		
		1981	P.C. Pompengan Ruas 7	BP. 6 - BP. 7	W.M.	W.M.	1,027	1.00	1.50	S-3	3,081	1,027	700	Gr	S-3	1,027		
		1981	P.C. Pompengan Ruas 8	BP. 7 - BP. 8	W.M.	W.M.	901	1.00	1.50	S-3	2,703	901	550	Gr	S-3	901		
		1981		BP. 8 - S. Muka			700				-					700		
		1981	P.C. Pompengan Ruas 9	BP. 8 - BP. 9	W.M.	W.M.	921	4.00	2.00	S-2	1,842	921	800	Gr	S-3	921		
		1985	P.C. Pompengan Ruas 10	BP. 9 - BP. 10	W.M.	Earth	1,065	4.00	2.00	S-2	2,130	1,065	600	Gr	S-2	1,065		
		1985	P.C. Pompengan Ruas 11	BP. 10 - BP. 11	W.M.	Earth	412	4.00	2.00	S-2	824	412	200	Gr	S-2	412		
		1985	P.C. Pompengan Ruas 12	BP. 11 - BP. 12	W.M.	Earth	1,456	4.00	2.00	S-3	4,368	1,456	1,456	As/Gr	S-3	1,456		
		1985	P.C. Pompengan Ruas 13	BP. 12 - BP. 13	W.M.	Earth	490	4.00	2.00	S-3	1,470	490	200	Conc.	S-4	490		
		1985	P.C. Pompengan Ruas 14	BP. 13 - BP. 14	W.M.	W.M.	679	3.80	1.50	S-3	2,037	679	150	Conc.	S-2	679		
		1985	P.C. Pompengan Ruas 15	BP. 14 - BP. 15	W.M.	W.M.	563	4.20	1.20	S-3	1,689	563	150	Gr	S-2	563		
		1985	P.C. Pompengan Ruas 16	BP. 15 - BP. 16	W.M.	Earth	1,458	1.00	1.50	S-3	4,374	1,458	200	As/Gr	S-2	1,458		
		1985	P.C. Pompengan Ruas 17	BP. 16 - BP. 17	W.M.	Earth	1,301	1.00	1.50	S-3	3,903	1,301	300	As	S-3	1,301		
		1985	P.C. Pompengan Ruas 18	BP. 17 - BP. 18	W.M.	Earth	334	1.00	1.50	S-3	1,002	334	150	As	S-3	334		
		1985	P.C. Pompengan Ruas 19	BP. 18 - BP. 19	W.M.	Earth	1,038	1.00	1.50	S-3	3,114	1,038	400	As	S-3	1,038		
		1985		BP. 19 - S. Muka			175				-					175		
		1985	P.C. Pompengan Ruas 20	B.P.19 - B.P.20	W.M.	W.M.	268	1.00	1.50	S-3	804	268	268	As	S-3	268		
							17,527				47,558					16,652		13,163
P-2	Suplesion Canal	1981	S.C. Rongkong Ruas 1	BSJ. 0 - BR. 1	W.M.	W.M./Earth	754	2.00	1.20	S-2	1,508	754	500	Gr	S-1	754		
		1981	S.C. Rongkong Ruas 2	BR. 1 - BR. 2	W.M.	Earth	463	2.00	1.20	S-2	926	463	463	Gr	S-1	463		
		1981	S.C. Rongkong Ruas 3	BR. 2 - BR. 3	W.M.	Earth	1,072	2.00	1.20	S-2	2,144	1,072	800	Gr	S-1	1,072		
		1981	S.C. Rongkong Ruas 4	BR. 3 - BR. 4	W.M.	Earth	1,012	2.00	1.20	S-2	2,024	1,012	800	Gr	S-1	1,012		
		1981	S.C. Rongkong Ruas 5	BR. 4 - BR. 5	W.M.	Earth	1,319	1.00	1.30	S-2	2,638	1,319	800	Gr	S-1	1,319		
							4,620			0	9,240					4,620		4,620
S-1	Secondary Canal	2005	S.C. Padang Kalua Ruas 1	BP. 5 - BPK. 1	PC/W.M.	W.M.	657	1.20	0.90	S-2	1,314	657	517	Gr	S-1	657		657
		2005	S.C. Padang Kalua Ruas 2	BPK. 1 - BPK. 2	W.M.	W.M.	298	0.70	0.60	S-2	596	298	120	Gr	S-3	298		298
		2007	S.C. Padang Kalua Ruas 3	BPK. 2 - BPK.3	W.M.	W.M.	206	0.70	0.60	S-2	412	206	206	Gr	S-3	206		206
		2007	S.C. Padang Kalua Ruas 4	BPK. 3 - BPK. 4	W.M.	W.M.	549	0.50/0.95	0.65/0.50	S-2	1,098	549	400	Gr	S-3	549		549
							1,710			0	3,420					1,053		1,710

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Lamasi Kiri (B.A: 4,665 ha)		Over All Ranking										Road Length for New As Pavement					Inspection Road (IR)			L (m) = 41,395
No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Rehab. Length of Canal (m)		New Canal Lining		Road Length (m)	Pave-ment	Soundness Ranking	New As Pavement Length (m)	
					Side Wall	Bed						Side Wall	Bed	Dinding	Alas					
S-2	Secondary Canal	1981	S.C. Samelung Ruas 1	BP. 9 - BSL. 1	W.M.	W.M.	495	2.00	1.00	S-3	3	1,485	495	100	495	Gr	S-3	495		
		1981	S.C. Samelung Ruas 2	BSL. 1 - BSL. 2	W.M.	W.M.	440	2.00	1.00	S-3	3	1,320	440	250	440	As	S-5	0		
		1981	S.C. Samelung Ruas 3	BSL. 2 - BSL. 3	W.M.	W.M.	2,023	2.00	1.00	S-3	3	6,069	2,023	500	2,023	Gr	S-3	2,023		
		1981	S.C. Samelung Ruas 4	BSL. 3 - BSL. 4	W.M.	W.M.	548	2.00	1.00	S-3	3	1,644	548	100	548	Gr	S-3	548		
		1981	S.C. Samelung Ruas 5	BSL. 4 - BSL. 5	W.M.	W.M.	1,496	1.00	1.00	S-3	3	4,488	1,496	300	1,496	Gr	S-3	1,496		
		1981	S.C. Samelung Ruas 6	BSL. 5 - BSL. 6	W.M.	W.M.	430	1.00	1.00	S-3	3	1,290	430	150	430	As	S-5	0		
		1981	S.C. Samelung Ruas 7	BSL. 6 - BSL. 7	PC	Earth	1,228	1.00	1.00	S-3	3	3,684	1,228	200	-	1,228	Gr	S-3	1,228	
		1981	S.C. Samelung Ruas 8	BSL. 7 - BSL. 8	W.M.	W.M.	1,048	1.50	1.00	S-3	3	3,144	1,048	400	1,048	Gr	S-3	1,048		
							7,708					23,124			7,708			6,838		
S-3	Secondary Canal	2007	S.C. Kondo Ruas 1	BSL. 4 - BK. 1	W.M.	W.M.	844	1.00	0.80	S-3	3	2,532	844	100	844		S-1	844		
		2007	S.C. Kondo Ruas 2	BK. 1 - BK. 2	W.M.	W.M.	1,829	1.00	0.80	S-3	3	5,487	1,829	1000	1,829	Gr	S-3	1,829		
							2,673					8,019			1,829			2,673		
S-4	Secondary Canal	2007	S.C. To' Pongo Ruas 1	BSL. 4 - B.Tp. 1	W.M.	W.M.	897	1.00	0.80	S-3	3	2,691	897	300	897	Gr	S-1	897		
		2007	S.C. To' Pongo Ruas 2	B.Tp. 1 - B.Tp. 2	W.M.	W.M.	130	1.00	0.80	S-3	3	390	130	200	130	Gr	S-3	130		
							1,027					3,081			770			1,027		
S-5	Secondary Canal	1981	S.C. Setiarejo Ruas 1	BP. 10 - BST. 1	W.M.	W.M.	290	1.20	1.20	S-2	2	580	290	100	290	Gr	S-3	290		
		1981	S.C. Setiarejo Ruas 2	BST. 1 - BST. 2	W.M.	W.M.	927	1.20	1.20	S-2	2	1,854	927	400	927	Gr	S-3	927		
		1981	S.C. Setiarejo Ruas 3	BST. 2 - BST. 3	W.M.	W.M.	1,422	1.20	1.20	S-2	2	2,844	1,422	1,000	1,422	Gr	S-3	1,422		
		1981	S.C. Setiarejo Ruas 4	BST. 3 - BST. 4	W.M.	W.M.	188	0.80	0.80	S-2	2	376	188	100	188	Gr	S-3	188		
		1981	S.C. Setiarejo Ruas 5	BST. 4 - BST. 5	W.M.	W.M.	1,447	0.80	0.80	S-2	2	2,894	1,447	1,000	1,447	As	S-1	1,447		
							4,274					8,548			3,536			4,274		
S-6	Secondary Canal	1981	S.C. Salu Jambu Ruas 1	BP. 12 - BSJ. 1	W.M.	Earth	458	2.00	1.00	S-2	2	916	458	300	458	Gr	S-2	458		
		1981	S.C. Salu Jambu Ruas 2	BSJ. 1 - BSJ. 2	W.M.	Earth	994	2.00	1.00	S-2	2	1,988	994	500	994	Gr	S-2	994		
		1981	S.C. Salu Jambu Ruas 3	BSJ. 2 - BSJ. 3	W.M.	Earth	614	2.00	1.00	S-2	2	1,228	614	500	614	Gr	S-2	614		
		1981	S.C. Salu Jambu Ruas 4	BSJ. 3 - BSJ. 4	PC	Earth	536	0.50	1.00	S-2	2	1,072	536	536	536	Gr	S-2	536		
							2,602					5,204			2,602			2,602		
S-7	Secondary Canal	1981	S.C. Salupao Ruas 1	BP. 13 - BPa. 1	W.M.	Earth	860	2.00	1.20	S-2	2	1,720	860	400	-	860	As	S-5	0	
		1981	S.C. Salupao Ruas 2	BPa. 1 - BPa. 2	PC	Earth	962	1.70	1.00	S-2	2	1,924	962	800	-	962	As	S-5	0	
		1981	S.C. Salupao Ruas 3	BPa. 2 - BPa. 3	PC	Earth	853	0.60	1.00	S-2	2	1,706	853	853	-	853	As	S-5	0	
							2,675					5,350			2,675			-		

IRRIGATION ASSET INVENTORY (Canal)

DI Name: Lamasi Kiri (B.A: 4,665 ha)		Over All Ranking										Road Length for New As Pavement				L (m) = 41,395			
No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width	Canal Wall Height	Soundness Ranking	Length X Soundness Ranking	Rehab. Length of Canal (m)		New Canal Lining		Inspection Road (IR)		New As Pavement Length (m)	
					Side Wall	Bed						Side Wall	Bed	Dinding	Alas	Road Length (m)	Pave-ment Ranking		
S-8	Secondary Canal	1985	S.C. DenraE Ruas 1	BP. 20 - BD. 1	W.M.	W.M.	413	1.00	1.20	S-3	3	1,239	413	200	413	As	S-5	0	
		1985	S.C. DenraE Ruas 2	BD. 1 - BD. 2	W.M.	W.M.	865	1.00	1.20	S-3	3	2,595	865	400	865	As	S-5	0	
		1985	S.C. DenraE Ruas 3	BD. 2 - BD. 3	W.M.	W.M.	1,422	1.00	1.20	S-3	3	4,266	1,422	700	1,422	Gr	S-3	1,422	
							2,700					8,100			2,700			1,422	
S-9	Secondary Canal	1985	S.C. Sinangkala Ruas 1	BP. 20 - BSI. 1	W.M.	W.M.	350	1.20	1.40	S-3	3	1,050	350	200	350	Gr	S-1	350	
		1985	S.C. Sinangkala Ruas 2	BSI. 1 - BSI. 2	W.M.	W.M./Earth	834	1.20	1.40	S-3	3	2,502	834	200	109	Gr	S-2	834	
		1985	S.C. Sinangkala Ruas 3	BSI. 2 - BSI. 3	W.M.	W.M./Earth	1,061	1.20	1.40	S-3	3	3,183	1,061	300	300	As	S-1	1,061	
		1985	S.C. Sinangkala Ruas 4	BSI. 3 - BSI. 4	W.M.	W.M.	967	1.20	1.40	S-3	3	2,901	967	300	300	As	S-5	0	
		1985	S.C. Sinangkala Ruas 5	BSI. 4 - BSI. 5	W.M.	W.M.	821	1.20	1.40	S-3	3	2,463	821	300	300	Gr	S-3	821	
TOTAL							51,549					12,099			1,436			3,066	
							133,743									45,581			41,395

Note

Symbol of Canal Lining Types ;
 Reinforced Concrete →RC
 Plain Concrete → PC
 Earth Canal →Earth
 Wet Masonry → W.M.
 Block Masonry →Block
 Concrete →Conc.
 Asphaltic Pavement → As
 Gravel Pavement →Gr

Over All Ranking
2.60
Over All Ranking

Primary Canal Length **P 2** 22,147 m
 Secondary Canal Length **SC 9** 29,402 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kiri (B.A: 4,665 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	Notes
						Ranking	Ranking	
1	Permanent weir	1981	Bendung Lamasi	BP. 1	2021			
2	Suppletion weir Rongkong	1981	Bendung Suplesi Rongkong	BSJ. 0	2021	S-3	S-2	
1	Division structure with off-take	1981	Bangunan Bagi Sadap	B.P.5	2021	S-3	S-4	
2		1985	Bangunan Bagi Sadap	BP. 12	2021	S-3	S-4	
3		1985	Bangunan Bagi Sadap	BP. 13	2021	S-3	S-4	
4		1981	Bangunan Bagi Sadap	BSL. 4	2021	S-4	S-4	
5	Off-take structure	2007	Bangunan Sadap	B.Tp.1	2021	S-2	S-1	
6		2007	Bangunan Sadap	B.Tp.2	2021	S-2	S-1	
7		1985	Bangunan Sadap	BD. 1	2021	S-4	S-4	
8		1985	Bangunan Sadap	BD. 2	2021	S-4	S-4	
9		1985	Bangunan Sadap	BD. 3	2021	S-4	S-4	
10		2007	Bangunan Sadap	BK. 1	2021	S-4	S-1	
11		2007	Bangunan Sadap	BK. 2	2021	S-4	S-4	
12		1985	Bangunan Sadap	BP. 11	2021	S-4	S-4	
13		1985	Bangunan Sadap	BP. 14	2021	S-3	S-4	
14		1985	Bangunan Sadap	BP. 15	2021	S-3	S-4	
15		1985	Bangunan Sadap	BP. 16	2021	S-3	S-1	
16		1985	Bangunan Sadap	BP. 17	2021	S-4	S-4	
17		1985	Bangunan Sadap	BP. 18	2021	S-4	S-4	
18		1985	Bangunan Sadap	BP. 19	2021	S-4	S-4	
19		1981	Bangunan Sadap	BP. 2	2021	S-3	S-4	
20		1981	Bangunan Sadap	BP. 3	2021	S-3	S-4	
21		1981	Bangunan Sadap	BP. 4	2021	S-4	S-4	
22		1981	Bangunan Sadap	BP. 6	2021	S-3	S-4	
23	1981	Bangunan Sadap	BP. 7	2021	S-4	S-4		
24	1981	Bangunan Sadap	BP. 8	2021	S-4	S-4		
25	1981	Bangunan Sadap	BPa. 1	2021	S-4	S-4		
26	1981	Bangunan Sadap	BPa. 2	2021	S-4	S-4		
27	1981	Bangunan Sadap	BPa. 3	2021	S-4	S-5		
28	2005	Bangunan Sadap	BPK. 2	2021	S-4	S-4		
29	2007	Bangunan Sadap	BPK. 3	2021	S-4	S-4		
30	2007	Bangunan Sadap	BPK. 4	2021	S-4	S-4		
31	2005	Bangunan Sadap	BPK.1	2021	S-2	S-4		
32	1981	Bangunan Sadap	BR. 1	2021	S-4	S-4		
33	1981	Bangunan Sadap	BR. 2	2021	S-4	S-1		
34	1981	Bangunan Sadap	BR. 3	2021	S-4	S-1		
35	1981	Bangunan Sadap	BR. 4	2021	S-4	S-1		
36	1981	Bangunan Sadap	BR. 5	2021	S-4	S-1		
37	1985	Bangunan Sadap	BSi. 1	2021	S-4	S-4		
38	1985	Bangunan Sadap	BSi. 2	2021	S-4	S-1		
39	1985	Bangunan Sadap	BSi. 3	2021	S-4	S-4		
40	1985	Bangunan Sadap	BSi. 4	2021	S-4	S-4		
41	1985	Bangunan Sadap	BSi. 5	2021	S-4	S-4		
42	1981	Bangunan Sadap	Banjungan Sadap	BSJ. 1	2021	S-4	S-4	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kiri (B.A: 4,665 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	Notes
						Ranking	Ranking	
43		1981	Bangunan Sadap	BSJ. 2	2021	S-4	S-4	
44		1981	Bangunan Sadap	BSJ. 3	2021	S-4	S-4	
45		1981	Bangunan Sadap	BSJ. 4	2021	S-4	S-4	
46		1981	Bangunan Sadap	BSL. 1	2021	S-4	S-4	
47		1981	Bangunan Sadap	BSL. 2	2021	S-4	S-4	
48		1981	Bangunan Sadap	BSL. 3	2021	S-4	S-4	
49		1981	Bangunan Sadap	BSL. 5	2021	S-4	S-4	
50		1981	Bangunan Sadap	BSL. 6	2021	S-3	S-4	
51		1981	Bangunan Sadap	BSL. 7	2021	S-3	S-1	
52		1981	Bangunan Sadap	BSL. 8	2021	S-4	S-1	
53		1981	Bangunan Sadap	BST. 2	2021	S-4	S-4	
54		1981	Bangunan Sadap	BST. 3	2021	S-4	S-4	
55		1981	Bangunan Sadap	BST. 4	2021	S-4	S-4	
56		1981	Bangunan Sadap	BST. 5	2021	S-4	S-4	
57		1981	Bangunan Sadap	BST.1	2021	S-4	S-4	
1	Drainage Culvert	1981	Gorong-gorong pembuang	BR. 5a	2021	S-4		
2		1981	Gorong-gorong pembuang	BR. 5b	2021	S-4		
3		1985	Gorong-gorong pembuang	BSi. 4b	2021	S-4		
4		1981	Gorong-gorong pembuang	BSL. 1b	2021	S-4		
5		1981	Gorong-gorong pembuang	BSL. 2a	2021	S-4		
6		1981	Gorong-gorong pembuang	BSL. 2b	2021	S-4		
7		1981	Gorong-gorong pembuang	BSL. 3a	2021	S-4		
8		1981	Gorong-gorong pembuang	BSL. 3b	2021	S-1		
9		1981	Gorong-gorong pembuang	BSL. 3c	2021	S-4		
10		1981	Gorong-gorong pembuang	BSL. 4a	2021	S-4		
11		1981	Gorong-gorong pembuang	BSL. 6a	2021	S-4		
12	Culvert	2007	Gorong-gorong jalan	B. Tp.1a	2021	S-4		
13		2007	Gorong-gorong jalan	BK. 1a	2021	S-4		
14		1981	Gorong-Gorong Jalan	BP. 2a	2021	S-4		
15		1985	Gorong-gorong jalan	BSi. 4a	2021	S-4		
16		1985	Gorong-gorong jalan	BSi. 5a	2021	S-4		
17		1981	Gorong-Gorong Jalan	BSL. 1a	2021	S-4		
18		1981	Gorong-gorong jalan	BSL. 5c	2021	S-4		
19		1981	Gorong-gorong	BST. 3a	2021	S-4		
20	Aqueduct	1985	Talang	BSi. 2b	2021	S-4		
21		1985	Talang	BSi. 3b	2021	S-4		
22		1985	Talang	BSi. 4c	2021	S-4		
23		1985	Talang	BSi. 5b	2021	S-3		
24		1981	Talang	BSL. 1c	2021	S-4		
25		1981	Talang	BSL. 8a	2021	S-4		
26		1981	Talang	BST. 5d	2021	S-3		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kiri (B.A: 4,665 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	Notes
						Ranking	Ranking	
1	Drop structure	2007	Bangunan Terjunan	B. Tp.1b	2021	S-4		
2		1985	Bangunan Terjun	BD. 1a	2021	S-4		
3		2007	Bangunan Terjun	BK. 1b	2021	S-4		
4		2007	Bangunan Terjun	BK. 2a	2021	S-4		
5		2007	Bangunan Terjun	BK. 2b	2021	S-4		
6		2007	Bangunan Terjun	BK. 2c	2021	S-4		
7		1985	Bangunan Terjun	BP. 10a	2021	S-1		
8		1985	Bangunan terjun	BP. 12c	2021	S-2		
9		1985	Bangunan Terjun	BP. 16a	2021	S-3		
10		1981	Bangunan Terjun	BP. 2b	2021	S-3		
11		1981	Bangunan Terjun	BPa. 2a	2021	S-1		
12		1981	Bangunan Terjun	BPa. 3a	2021	S-3		
13		2007	Bangunan Terjun	BPK. 4a	2021	S-2		
14		2007	Bangunan Terjun	BPK. 4b	2021	S-2		
15		1985	Bangunan Terjun	BSi. 5c	2021	S-4		
16		1981	Bangunan Terjun	BSJ. 2a	2021	S-4		
17		1981	Bangunan Terjun	BSL. 7a	2021	S-4		
18		1981	Bangunan Terjun	BST. 2c	2021	S-3		
19		1981	Bangunan Terjun	BST. 3b	2021	S-2		
20		1981	Bangunan Terjun	BST. 5a	2021	S-4		
21		1981	Bangunan Terjun	BST. 5b	2021	S-4		
1	Bridge	1985	Jembatan	BD. 3a	2021	S-4		
2		1985	Jembatan	BP. 10b	2021	S-4		
3		1985	Jembatan	BP. 13a	2021	S-4		
4		1981	Jembatan	BP. 3a	2021	S-4		
5		1981	Jembatan	BP. 8a	2021	S-4		
6		1985	Jembatan	BSi. 1a	2021	S-4		
7		1985	Jembatan	BSi. 2a	2021	S-4		
8	Foot bridge	1981	Jembatan orang	BP. 5a	2021	S-3		
9		1981	Jembatan orang	BP. 8b	2021	S-4		
10		1981	Jembatan orang	BP. 9a	2021	S-4		
11		1985	Jembatan orang	BP. 12a	2021	S-4		
12		1985	Jembatan orang	BP. 12b	2021	S-4		
13		1985	Jembatan orang	BP. 14a	2021	S-4		
14		1985	Jembatan orang	BP. 15a	2021	S-4		
15		1985	Jembatan orang	BP. 16b	2021	S-4		
16		1985	Jembatan orang	BP. 18a	2021	S-1		
17		1985	Jembatan orang	BP. 19a	2021	S-4		
18		1985	Jembatan orang	BSi. 3a	2021	S-4		
19		1981	Jembatan orang	BSL. 5a	2021	S-4		
20		1981	Jembatan orang	BSL. 5b	2021	S-4		
21		1981	Jembatan orang	BST. 1a	2021	S-4		
22		1981	Jembatan orang	BST. 2a	2021	S-4		
23		1981	Jembatan orang	BST. 2b	2021	S-4		
24		1981	Jembatan orang	BST. 2d	2021	S-4		
25		1981	Jembatan orang	BST. 3c	2021	S-4		
26		1981	Jembatan orang	BST. 3d	2021	S-4		
27		1981	Jembatan orang	BST. 3e	2021	S-4		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Lamasi Kiri (B.A: 4,665 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	Notes
						Ranking	Ranking	
27	Gate keeper house	1992	Rumah Jaga		2021	S-2		8 unit
28	Inspection house	1992	Rumah Pengamat		2021	S-3		1 unit
29	Inspection office	1992	Kantor Pengamat		2021	S-3		1 unit
30	Suppletion structure	1981	Suplesi Awo Gading	BST. 5c	2021	S-4	S-4	
31		2019	Suplesi Makawa Kanan		2021	S-3		
32		1917	Suplesi Parompong		2021	S-3		
33			Suplesi Makawa		2021	S-3		
58	Division structure	1981	Bangunan Bagi	BP. 9	2021	S-4	S-4	
59		1985	Bangunan Bagi	BP. 10	2021	S-4	S-4	
60		1985	Bangunan Bagi	BP. 20	2021	S-4	S-1	
34	Side spillway	1985	Bangunan Pelimpah	BP. 19b	2021	S-4		
35		1985	Bangunan Pelimpah	BP. 20a	2021	S-4		
36		1981	Bangunan Pelimpah	BR. 1b	2021	S-4		
37	Settling basin	1981	Kantong lumpur	BR. 1a	2021	S-4		
38	Water User Association (WUA) office	1981	Balai Ulu-Ulu		2021	S-3		4 unit

TOTAL			
Number of structure	S-5	0	1
	S-4	110	48
	S-3	25	0
	S-2	8	1
	S-1	4	12
	Sum (Nos)	209	147
Soundness Ranking	Average	3.64	3.40
	Structure Ave.	<u>3.57</u>	

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)		Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking		Rehab. Length of Canal (m)		New Canal Lining		Road Length (m)		Soundness Ranking		REMARKS	
					Side Wall	Bed		Side Wall	Bed			Side Wall	Bed	Side Wall	Bed	Side Wall	Bed	Side Wall	Bed				
					Over All Ranking			2.70				Road Length for New As. Pavement		L (m) = 21,283									
P-1	Primary Canal	1960	P.C. Kalaena Kanan Ruas 1	B.K.Ka.0 - B.K.Ka.1	RC	W.M.	40	12.00	4.00	4.00	S4	4	160	0	0	RC	W.M.	40	As	S5	0		
		1980	P.C. Kalaena Kanan Ruas 2	B.K.Ka.1 - B.K.Ka.2	RC	Earth	668.5	12.00	4.00	4.00	S3	3	2,606	100	800	RC	PC	868.5	As	S5	0		
		2018	P.C. Kalaena Kanan Ruas 3	B.K.Ka.2 - B.K.Ka.3	RC	Earth	740	12.00	4.00	4.00	S3	3	2,220	200	740	RC	PC	740	As	S5	0		
		2018	P.C. Kalaena Kanan Ruas 4	B.K.Ka.3 - B.K.Ka.4	RC	Earth	535	12.00	4.00	4.00	S3	3	1,605	100	0	RC	PC	535	As	S5	0		
		2018	P.C. Kalaena Kanan Ruas 5	B.K.Ka.4 - B.K.Ka.5	RC	Earth	1,070	12.00	4.00	4.00	S3	3	3,210	150	0	RC	PC	1,070	As	S5	0	dari Ruas	
		2018	P.C. Kalaena Kanan Ruas 6	B.K.Ka.5 - B.K.Ka.6	RC	Earth	950	12.00	4.00	4.00	S3	3	2,850	100	0	RC	PC	950	As	S5	0	BK.Ka.15	
		2018	P.C. Kalaena Kanan Ruas 7	B.K.Ka.6 - B.K.Ka.7	RC	Earth	965	12.00	4.00	4.00	S3	3	2,955	350	0	RC	PC	965	As	S5	0	(Sudah	
		2018	P.C. Kalaena Kanan Ruas 8	B.K.Ka.7 - B.K.Ka.8	RC	Earth	2,408	12.00	4.00	4.00	S3	3	7,224	200	0	RC	PC	2,408	-	S3	2,408	terjadi	
		2018	P.C. Kalaena Kanan Ruas 9	B.K.Ka.8 - B.K.Ka.9	RC	Earth	1,180	12.00	4.00	4.00	S3	3	3,540	50	0	RC	PC	1,180	-	S3	1,180	pendangkalan	
		2018	P.C. Kalaena Kanan Ruas 10	B.K.Ka.9 - B.K.Ka.10	RC	Earth	2,199	11.00	4.00	4.00	S3	3	6,597	200	0	RC	PC	2,199	-	S3	2,199	sedimentasi	
		2018	P.C. Kalaena Kanan Ruas 11	B.K.Ka.10 - B.K.Ka.11	RC	Earth	1,852	11.00	4.00	4.00	S3	3	5,555	100	0	RC	PC	1,852	-	S5	1,852	(si) usulan	
		2019	P.C. Kalaena Kanan Ruas 12	B.K.Ka.11 - B.K.Ka.12	RC	Earth	662	11.00	4.00	4.00	S3	3	2,085	0	0	RC	PC	662	-	S5	662	normalisasi	
		2019	P.C. Kalaena Kanan Ruas 13	B.K.Ka.12 - B.K.Ka.13	RC	Earth	662	10.00	3.00	3.00	S3	3	1,996	100	100	RC	PC	662	-	S5	662		
		2019	P.C. Kalaena Kanan Ruas 14	B.K.Ka.13 - B.K.Ka.14	RC	Earth	834.5	10.00	3.00	3.00	S3	3	2,504	200	100	RC	PC	834.5	-	S5	834.5		
		2019	P.C. Kalaena Kanan Ruas 15	B.K.Ka.14 - B.K.Ka.15	RC	Earth	1,115	6.00	3.00	3.00	S3	3	3,345	150	50	RC	PC	1,115	-	S5	1,115		
			Total				16,134						48,441						16,134			10,945	
S-1	Secondary Canal	2017	S.C. Wonorejo Ruas 1	B.K.Ka.9 - B.W.1	PC	W.M.	710	200	190.0	190.0	S3	3	2,130	100	200	PC	W.M.	732.5	As	S5	0		
		2017	S.C. Wonorejo Ruas 2	B.W.1 - B.W.2	PC	W.M.	460	150	180.0	180.0	S3	3	1,380	50	150	PC	W.M.	400	As	S5	0		
		2017	S.C. Wonorejo Ruas 3	B.W.2 - B.W.3	PC	W.M.	1,405	150	180.0	180.0	S1	1	1,405	30	150	PC	W.M.	1,465	As	S5	0		
		2017	S.C. Wonorejo Ruas 4	B.W.3 - B.W.4	PC	W.M.	750	150	120.0	120.0	S1	1	750	30	150	PC	W.M.	750	As	S5	0		
		2017	S.C. Wonorejo Ruas 5	B.W.4 - B.W.5	PC	W.M.	465	150	120.0	120.0	S1	1	465	465	150	PC	W.M.	465	As	S5	0		
			Total				3,790						6,130						3,813			0	
S-2	Secondary Canal	1995	S.C. Purwosari Ruas 1	B.K.Ka.11 - B.Ps.1	W.M.	Earth	2,015	310	230.0	230.0	S2	2	4,030	225	2000	W.M.	W.M.	2015	As	S5	0		
		1995	S.C. Purwosari Ruas 2	B.Ps.1 - B.Ps.2	W.M.	Conc.	761	300	200.0	200.0	S3	3	2,283	50	760	W.M.	W.M.	761	As	S5	0		
		1995	S.C. Purwosari Ruas 3	B.Ps.2 - B.Ps.3	W.M.	Conc.	1,357	220	200.0	200.0	S3	3	4,071	300	1300	W.M.	W.M.	1357	As	S5	0		
		1995	S.C. Purwosari Ruas 4	B.Ps.3 - B.Ps.4	W.M.	Conc.	500	250	200.0	200.0	S3	3	1,500	0	500	W.M.	W.M.	500	As	S5	0		
		1995	S.C. Purwosari Ruas 5	B.Ps.4 - B.Ps.5	PC	Conc.	1,158	250	200.0	200.0	S3	3	3,474	150	500	W.M.	W.M.	1158	As	S5	0		
		1995	S.C. Purwosari Ruas 6	B.Ps.5 - B.Ps.6	W.M.	Conc.	1,038	150	150.0	150.0	S2	2	2,076	100	1000	W.M.	W.M.	1038	As	S5	0		
		1995	S.C. Purwosari Ruas 7	B.Ps.6 - B.Ps.7	PC	Conc.	488	180	130.0	130.0	S2	2	976	100	400	W.M.	W.M.	488	As	S5	0		
		1995	S.C. Purwosari Ruas 8	B.Ps.7 - B.Ps.8	PC	Conc.	674	180	130.0	130.0	S2	2	1,348	200	600	W.M.	W.M.	674	As	S5	0		
		1995	S.C. Purwosari Ruas 9	B.Ps.8 - B.Ps.9	PC	Conc.	856	140	130.0	130.0	S2	2	1,712	600	800	W.M.	W.M.	856	-	S4	856		
			Total				8,847						21,470						8,847			856	

IRRIGATION ASSET INVENTORY (Canal)

No	Type of Asset	Year Built	Canal (Section) Name	Junction Point of Section	Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Rehab. Length of Canal (m)			New Canal Lining			Road Length (m)		Inspection Road (IR)		REMARKS	
					Side Wall	Bed					Length X	Soundness Ranking	Side Wall	Bed	Length	Soundness Ranking	Pavement	New As Pavement Length (m)				
																			Side Wall	Bed		Length
S-3	Secondary Canal	2019	S.C. Ranteitiku Ruas 1	B.K.Xa.12 - B.R.1	W.M.	Earth	1,828	500	260.0	S4	4	7,312	100	1800	W.M.	W.M.	1,828	As	S5	0		
		2019	S.C. Ranteitiku Ruas 2	B.R.1 - B.R.2	W.M.	Earth	1,452	400	220.0	S4	4	5,808	0	1400	W.M.	W.M.	1,452	As	S5	0		
		2019	S.C. Ranteitiku Ruas 3	B.R.2 - B.R.3	W.M.	Earth	520	440	260.0	S4	4	2,080	40	500	W.M.	W.M.	520	As	S5	0		
		2019	S.C. Ranteitiku Ruas 4	B.R.3 - B.R.4	W.M.	Earth	175	400	250.0	S3	3	525	175	400	W.M.	W.M.	175	As	S5	0		
		2019	S.C. Ranteitiku Ruas 5	B.R.4 - B.R.5	W.M.	Earth	982	450	250.0	S3	3	2,946	70	450	W.M.	W.M.	982	As	S5	0		
		1997	S.C. Ranteitiku Ruas 6	B.R.5 - B.R.6	W.M.	Conc.	2,100	400	150.0	S1	1	2,100	1,000	400	W.M.	W.M.	2,100	-	S4	2,100		
		1997	S.C. Ranteitiku Ruas 7	B.R.6 - B.R.7	W.M.	Conc.	850	250	120.0	S1	1	850	850	250	W.M.	W.M.	850	-	S4	850		
		1997	S.C. Ranteitiku Ruas 8	B.R.7 - B.R.8	W.M.	Conc.	1,407	200	115.0	S3	3	4,221	40	200	W.M.	W.M.	1,407	-	S4	1,407		
		1997	S.C. Ranteitiku Ruas 9	B.R.8 - B.R.9	W.M.	Conc.	651	250	115.0	S3	3	1,953	150	250	W.M.	W.M.	651	As	S4	651		
		1997	S.C. Ranteitiku Ruas 10	B.R.9 - B.R.10	W.M.	Conc.	1,192	250	150.0	S3	3	3,576	40	250	W.M.	W.M.	1,192	-	S4	1,192		
		1997	S.C. Ranteitiku Ruas 11	B.R.10 - B.R.11	W.M.	Conc.	959	220	100.0	S3	3	2,877	30	220	W.M.	W.M.	959	-	S4	959		
			Total				12,116					34,248					12,116			6,573		
S-4	Secondary Canal	1997	S.C. Kayu Langi Ruas 1	B.R.2 - B.K1.1	W.M.	W.M.	639	100	140.0	S3	3	1,917	100	500	W.M.	W.M.	639	Gr	S4	639		
			Total				639					1,917					639			639		
S-5	Secondary Canal	1997	S.C. Karambia Ruas 1	B.R.5 - B.Kt.1	W.M.	W.M.	885	130.0	150.0	S3	3	2,655	800	800	W.M.	W.M.	2,103	Gr	S5	885		
			Total				885					2,655					2,103			885		
S-6	Secondary Canal	2000	S.C. Pavosui Ruas 1	B.R.8 - B.Pw.1	W.M.	Conc.	475	250.0	115.0	S3	3	1,425	200	400	W.M.	W.M.	0	-	S5	475		
			S.C. Pavosui Ruas 2	B.Pw.1 - B.Pw.2	W.M.	Conc.	1,795	120.0	100.0	S3	3	5,385	1,000	1500	W.M.	W.M.	1,323	Gr	S5	1,795		
			Total				2,270					6,810					1,323			2,270		
TOTAL							43,796	119,016	Over All Ranking	2.70	42,871	21,283										

Note: Symbol of Canal Lining Types :
 Reinforced Concrete → RC
 Plain Concrete → PC
 Earth Canal → Earth
 Wet Masonry → W.M.
 Block Masonry → Block
 Concrete → Conc.
 Asphaltic Pavement → As
 Gravel Pavement → Gr

Primary Canal Length P 1 16,134 m
 Secondary Canal Length SC 6 27,662 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)

DIName: UPT Kalaena (B.A: 7,413 ha)

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
1	Permanet Weir	1986	Bendung Kalaena	B.K.Ka.0	2021	S4	S3	Perlu penataan bendung (Pagar Pengaman, Peiskall, Tanda larangan dll Needs weir re-arrangement (security fence, warning signs, etc)
1	Drainage	1986	Bangunan Penguras	B.K.Ka.1a	2021	S3	S3	
2	Measuring structure	1986	Bangunan Ukur	B.K.Ka.2a	2021	S3	S3	
3		2019	Bangunan Ukur	B.R.1a	2021	S4	0	
4	Spillway structure	1986	Bangunan Pelimpah	B.K.Ka.7c	2021	S1	S1	
5		1986	Bangunan Pelimpah	B.K.Ka.10c	2021	S3	0	
6		1995	Bangunan Pelimpah	B.Ps.5e	2021	S3	0	
7		1997	Bangunan Pelimpah	B.R.5c	2021	S4	0	
1	Off-take structure	1986	Sadap	B.K.Ka.1	2021	S4	S4	
2		1986	Sadap	B.K.Ka.2	2021	S3	S4	
3		1986	Sadap	B.K.Ka.3	2021	S4	S4	
4		1986	Sadap	B.K.Ka.4	2021	S4	S4	
5		1986	Sadap	B.K.Ka.5	2021	S4	S3	
6		1986	Sadap	B.K.Ka.6	2021	S3	S1	
7		1986	Sadap	B.K.Ka.7	2021	S4	S1	
8		1986	Sadap	B.K.Ka.8	2021	S4	S4	
9		1986	Sadap	B.K.Ka.10	2021	S4	S3	
10		1986	Sadap	B.K.Ka.14	2021	S4	S4	
11		1986	Sadap	B.K.Ka.15	2021	S4	S3	
12		1997	Sadap	B.Kl.1	2021	S3	S3	
13		1997	Sadap	B.Kr.1	2021	S4	S4	
14		1995	Sadap	B.Ps.1	2021	S3	S3	
15		1995	Sadap	B.Ps.2	2021	S4	S4	
16		1995	Sadap	B.Ps.3	2021	S4	S4	
17		1995	Sadap	B.Ps.4	2021	S3	S3	
18		1995	Sadap	B.Ps.5	2021	S4	S4	
19		1995	Sadap	B.Ps.6	2021	S3	S3	
20		1995	Sadap	B.Ps.7	2021	S3	S3	
21		1995	Sadap	B.Ps.8	2021	S3	S3	
22		1995	Sadap	B.Ps.9	2021	S3	S3	
23		2000	Sadap	B.Pw.1	2021	S4	S4	
24		2000	Sadap	B.Pw.2	2021	S3	S3	
25		1997	Sadap	B.R.1	2021	S4	S3	
26		1997	Sadap	B.R.3	2021	S3	S3	
27		1997	Sadap	B.R.4	2021	S1	S3	
28		1997	Sadap	B.R.6	2021	S4	S3	
29		1997	Sadap	B.R.7	2021	S4	S1	
30		1997	Sadap	B.R.9	2021	S3	S1	
31		1997	Sadap	B.R.10	2021	S4	S4	
32		1997	Sadap	B.R.11	2021	S4	S3	
33		2000	Sadap	B.W.1	2021	S3	S4	
34		2000	Sadap	B.W.2	2021	S3	S1	
35		2000	Sadap	B.W.3	2021	S3	S4	
36		2000	Sadap	B.W.4	2021	S1	S1	
37		2000	Sadap	B.W.5	2021	S4	S4	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)

DIName: UPT Kalaena (B.A: 7,413 ha)

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
38	Division with off-take	1986	Bagi Sadap	B.K.Ka.9	2021	S4	S1	
39		1986	Bagi Sadap	B.K.Ka.11	2021	S3	S3	
40		1986	Bagi Sadap	B.K.Ka.12	2021	S4	S4	
41		1986	Bagi Sadap	B.K.Ka.13	2021	S3	S3	
42		2020	Bagi Sadap	B.R.2	2021	S4	S1	
43		1997	Bagi Sadap	B.R.5	2021	S4	S4	
44		1997	Bagi Sadap	B.R.8	2021	S3	S1	
8	Syphon	1986	Sypon	B.K.Ka.7d	2021	S3	S1	
9		1986	Sypon	B.K.Ka.10e	2021	S4	S1	
10	Culvert	1986	Gorong gorong jalan	B.K.Ka.7b	2021	S4	0	
11		1986	Gorong gorong jalan	B.K.Ka.8d	2021	S4	0	
12		1986	Gorong gorong jalan	B.K.Ka.8e	2021	S4	0	
13		1986	Gorong gorong jalan	B.K.Ka.15a	2021	S4	0	
14		1995	Gorong gorong jalan	B.Ps.3a	2021	S3	0	
15		1995	Gorong gorong jalan	B.Ps.6c	2021	S4	0	
16		2000	Gorong gorong jalan	B.W.1a	2021	S4	0	
17		2000	Gorong gorong jalan	B.W.4b	2021	S4	0	
18	Drainage culvert	1986	Gorong-gorong Pembuang	B.K.Ka.2c	2021	S4	S4	
19		1986	Gorong-gorong Pembuang	B.K.Ka.3a	2021	S3	0	
20		1986	Gorong gorong pembuang	B.K.Ka.4b	2021	S4	S4	
21		1986	Gorong gorong pembuang	B.K.Ka.5c	2021	S4	0	
22		1986	Gorong gorong pembuang	B.K.Ka.6b	2021	S4	0	
23		1986	Gorong gorong pembuang	B.K.Ka.8a	2021	S3	0	
24		1986	Gorong gorong pembuang	B.K.Ka.9a	2021	S4	0	
25		1986	Gorong-gorong Pembuang	B.K.Ka.10d	2021	S4	0	
26		1986	Gorong gorong pembuang	B.K.Ka.11b	2021	S4	0	
27		1986	Gorong gorong pembuang	B.K.Ka.13b	2021	S4	0	
28		1986	Gorong gorong pembuang	B.K.Ka.14c	2021	S4	0	
29		1986	Gorong gorong pembuang	B.K.Ka.15b	2021	S4	0	
30		1997	Gorong gorong pembuang	B.Kl.1b	2021	S1	0	
31		1995	Gorong gorong pembuang	B.Ps.5c	2021	S4	0	
32		1995	Gorong gorong pembuang	B.Ps.5d	2021	S4	0	
33		1995	Gorong gorong Pembuang	B.Ps.8b	2021	S3	0	
34		1995	Gorong gorong pembuang	B.Ps.9b	2021	S3	0	
35		2000	Gorong-Gorong Pembuang	B.Pw.1c	2021	S3	0	
36		1997	Gorong-Gorong Pembuang	B.R.6a	2021	S4	0	
37		1997	Gorong gorong pembuang	B.R.9b	2021	S4	0	
38		1997	Gorong gorong pembuang	B.R.10a	2021	S3	0	
39		1997	Gorong gorong pembuang	B.R.11a	2021	S4	0	
40	Intake Culvert	1997	Gorong-Gorong Pembawa	B.R.6d	2021	S4	0	
1	Bridge	1986	Jembatan	B.K.Ka.5b	2021	S4	0	
2		1986	Jembatan	B.K.Ka.7a	2021	S3	0	
3		1986	Jembatan	B.K.Ka.10a	2021	S3	0	
4		1986	Jembatan	B.K.Ka.11d	2021	S4	0	
5		1986	Jembatan	B.K.Ka.13a	2021	S3	0	
6		1986	Jembatan	B.K.Ka.14a	2021	S4	S3	
7		1986	Jembatan	B.K.Ka.14b	2021	S4	0	
8		1997	Jembatan	B.Kl.1a	2021	S3	0	
9		1997	Jembatan	B.Kr.1b	2021	S3	0	
10		1995	Jembatan	B.Ps.2b	2021	S3	0	
11		1995	Jembatan	B.Ps.2f	2021	S3	0	
12		1995	Jembatan	B.Ps.5a	2021	S4	0	
13		1995	Jembatan	B.Ps.5b	2021	S4	0	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)

DIName: UPT Kalaena (B.A: 7,413 ha)

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
14		1995	Jembatan	B.Ps.6a	2021	S4	0	
15		1995	Jembatan	B.Ps.6e	2021	S4	0	
16		1995	Jembatan	B.Ps.7a	2021	S4	0	
17		1995	Jembatan	B.Ps.8a	2021	S4	0	
18		2000	Jembatan	B.Pw.1a	2021	S3	0	
19		2000	Jembatan	B.Pw.1d	2021	S3	0	
20		2000	Jembatan	B.Pw.2a	2021	S4	0	
21		2000	Jembatan	B.Pw.2b	2021	S4	0	
22		1997	Jembatan	B.R.5d	2021	S3	0	
23		1997	Jembatan	B.R.6b	2021	S1	0	
24		1997	Jembatan	B.R.8a	2021	S3	0	
25		1997	Jembatan	B.R.9a	2021	S4	0	
26		1997	Jembatan	B.R.9c	2021	S4	0	
27		1997	Jembatan	B.R.10b	2021	S4	0	
28		1997	Jembatan	B.R.11b	2021	S3	0	
29		2000	Jembatan	B.W.2a	2021	S4	0	
30		2000	Jembatan	B.W.4a	2021	S3	0	
31	Foot Bridge	1986	Jembatan Orang	B.K.Ka.2d	2021	S3	S3	
32		1986	Jembatan Orang	B.K.Ka.4a	2021	S3	S3	
33		1986	Jembatan Orang	B.K.Ka.6a	2021	S4	0	
34		1986	Jembatan Orang	B.K.Ka.8b	2021	S4	0	
35		1986	Jembatan Orang	B.K.Ka.11a	2021	S3	0	
36		1986	Jembatan Orang	B.K.Ka.12a	2021	S4	0	
37		1995	Jembatan Orang	B.Ps.6d	2021	S4	0	
38		1997	Jembatan Orang	B.R.5b	2021	S4	0	
39		2000	Jembatan Orang	B.W.3b	2021	S4	0	
41	Aqueduct	1997	Talang	B.Kr.1d	2021	S3	0	
42		1995	Talang	B.Ps.9a	2021	S4	0	
1	Drop structure	1997	Bangunan Terjun	B.Kr.1a	2021	S3	0	
2		1997	Bangunan Terjun	B.Kr.1c	2021	S3	0	
3		1995	Bangunan Terjun	B.Ps.1a	2021	S3	0	
4		1995	Bangunan Terjun	B.Ps.1b	2021	S3	0	
5		1995	Bangunan Terjun	B.Ps.1c	2021	S1	0	
6		1995	Bangunan Terjun	B.Ps.1d	2021	S1	0	
7		1995	Bangunan Terjun	B.Ps.2a	2021	S4	0	
8		1995	Bangunan Terjun	B.Ps.2c	2021	S3	0	
9		1995	Bangunan Terjun	B.Ps.6b	2021	S4	0	
10		2000	Bangunan Terjun	B.Pw.1b	2021	S3	0	
11		2000	Bangunan Terjun	B.Pw.2c	2021	S3	0	
12		1997	Bangunan Terjun	B.R.1b	2021	S3	0	
13		1997	Bangunan Terjun	B.R.1c	2021	S3	0	
14		1997	Bangunan Terjun	B.R.1d	2021	S3	0	
15		2019	Bangunan Terjun	B.R.2a	2021	S4	0	
16		2019	Bangunan Terjun	B.R.2b	2021	S4	0	
17		1997	Bangunan Terjun	B.R.6c	2021	S1	0	
18		1997	Bangunan Terjun	B.R.8b	2021	S3	0	
19		2000	Bangunan Terjun	B.W.1b	2021	S3	0	
20		2000	Bangunan Terjun	B.W.3a	2021	S1	0	
21		2000	Bangunan Terjun	B.W.3c	2021	S1	0	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: UPT Kalaena (B.A: 7,413 ha)**

No	Type of Asset	Year Built	Structure Name	Facility Name	Year Survey	Civil Facility	Mechanical	REMARKS
						Ranking	Ranking	
43	Washing place	1986	Tangga cuci	B.K.Ka.2b	2021	S4	S4	
44		1986	Tangga cuci	B.K.Ka.5a	2021	S4	0	Structure non-existent
45		1986	Tangga cuci	B.K.Ka.6c	2021	S4	0	
46		1986	Tangga cuci	B.K.Ka.8c	2021	S4	0	
47		1986	Tangga cuci	B.K.Ka.10b	2021	S4	0	
48		1986	Tangga cuci	B.K.Ka.11c	2021	S4	0	
49		1995	Tangga cuci	B.Ps.2d	2021	S4	0	
50		1995	Tangga cuci	B.Ps.2e	2021	S4	0	
51	Chute structure	1997	Got Miring	B.R.5a	2021	S4	0	

TOTAL			
Number of structure	S-5	0	0
	S-4	87	20
	S-3	59	24
	S-2	0	0
	S-1	10	12
	Sum (Nos)	212	156
Soundness Ranking	Average	3.43	2.93
	Structure Ave.	3.30	

IRRIGATION ASSET INVENTORY (Canal)

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Over All Ranking			2.70			Road Length for New As Pavement				L (m) = 52,931				
					Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Soundness Ranking	Length X Soundness Ranking	Side Wall	Bed	Side Wall	Bed	Rehab Canal (m)	Side Wall	Bed	Road Length (m)
S-2	Secondary Canal	2004	S.C. Tarengge Ruas 1	B.Ms.4 - B.Tr.1	W.M.	W.M.	805	1.5	1.3	S-4	4	3,220				805	Gr		805
		2004	S.C. Tarengge Ruas 2	B.Tr.1 - B.Tr.2	W.M.	W.M.	1,150	1.5	1.3	S-4	4	4,600				1,150	Gr		1,150
		2019	S.C. Tarengge Ruas 3	B.Tr.2 - B.Tr.3	W.M.	W.M.	2,189	1.0	1.1	S-5	5	10,945				2,189	Gr		2,189
		2019	S.C. Tarengge Ruas 4	B.Tr.3 - B.Tr.4	W.M.	W.M.	1,150	1.0	1.1	S-5	5	5,750				1,150	Gr		1,150
			Total				5,294					24,515				5,294			5,294
S-3	Secondary Canal		S.C. Teluk Bone Ruas 1	B.Tr.2 - B.Tr.1	Earth	Earth	1,466	0.8	1.2	S-1	1	1,466	700	W.M.	W.M.	0	-		1,466
			Total				1,466					1,466				-			1,466
S-4	Secondary Canal	2005	S.C. Bandoa Ruas 1	B.K.Ka.16 - B.B.1	W.M.	W.M.	658	2.6	1.5	S-3	0	-				658	Gr	S-3	658
		2005	S.C. Bandoa Ruas 2	B.B.1 - B.B.2	W.M.	W.M.	1,687	2.6	1.3	S-3	3	5,061				1,687	Gr	S-3	1,687
		2005	S.C. Bandoa Ruas 3	B.B.2 - B.B.3	W.M.	W.M.	522	2.5	1.2	S-3	3	1,566	522	W.M.	W.M.	522	Gr	S-3	522
		2019	S.C. Bandoa Ruas 4	B.B.3 - B.B.4	W.M.	W.M.	1,533	2.4	1.2	S-3	3	4,599	1,300	W.M.	W.M.	1,300	As	S-5	0
		2019	S.C. Bandoa Ruas 5	B.B.4 - B.B.5	W.M.	W.M.	1,099	1.8	1.1	S-3	3	3,297	-	W.M.	W.M.	1,099	Gr	S-4	1,099
		2019	S.C. Bandoa Ruas 6	B.B.5 - B.B.6	W.M.	W.M.	307	1	1.1	S-3	3	921				307	Gr	S-4	307
		2019	S.C. Bandoa Ruas 7	B.B.6 - B.B.7	W.M.	W.M.	1,046	0.7	1.0	S-3	3	3,138				1,046	Gr	S-4	1,046
		2018	S.C. Bandoa Ruas 8	B.B.7 - B.B.8	W.M.	W.M.	535	0.6	0.9	S-3	3	1,605				535	W.M.	S-3	535
			Total				7,387					20,187				7,387			6,854
S-5	Secondary Canal		S.C. Wotu Ruas 1	B.B.3 - B.Wt.1	Earth	Earth	252	0.75	1.1	S-1	1	252	252	W.M.	W.M.	252		S-1	252
			S.C. Wotu Ruas 2	B.Wt.1 - B.Wt.2	Earth	Earth	1,586	0.55	0.9	S-1	1	1,586	1,586	W.M.	W.M.	1,586		S-1	1,586
			Total				1,838					1,838				1,838			1,838
S-6	Secondary Canal	2012	S.C. Lambara Ruas 1	B.K.Ka.18 - B.L.1	W.M.	W.M.	2,026	1	1.3	S-3	3	6,078	100	W.M.	W.M.	200	Gr	S-3	2,026
		2015	S.C. Lambara Ruas 2	B.L.1 - B.L.2	W.M.	W.M.	1,607	0.8	1.1	S-3	3	4,821	100	W.M.	W.M.	500	Gr	S-4	1,607
		2015	S.C. Lambara Ruas 3	B.L.2 - B.L.3	W.M.	W.M.	1,549	0.7	0.9	S-3	3	4,647	200	W.M.	W.M.	200	Gr	S-4	1,549
			Total				5,182					15,546				5,182			5,182
S-7	Secondary Canal	2015	S.C. Lanosi Ruas 1	B.K.Ka.22 - B.Ln.1	W.M.	W.M.	921	1.1	1.5	S-3	3	2,763	50	W.M.	W.M.	200	Gr	S-4	921
		2015	S.C. Lanosi Ruas 2	B.Ln.1 - B.Ln.2	W.M.	W.M.	440	1	1.1	S-3	3	1,320	50	W.M.	W.M.	440	Gr	S-4	440
		2015	S.C. Lanosi Ruas 3	B.Ln.2 - B.Ln.3	W.M.	W.M.	1,219	0.7	1.0	S-3	3	3,657	100	W.M.	W.M.	1,219	Gr	S-4	1,219
			Total				2,580					7,740				2,580			2,580
S-8	Secondary Canal		S.C. Lambu - Lambu Ruas 1	B.K.Ka.24 - B.Ll.1	Earth	Earth	1,236	0.6	1.0	S-1	1	1,236	1,236	W.M.	W.M.	1,236	Gr		1,236
			Total				1,236					1,236				1,236			1,236
S-9	Secondary Canal	2015	S.C. Jalajaja Ruas 1	B.K.Ka.26 - B.J.1	W.M.	W.M.	1,150	1.0	0.9	S-3	3	3,450	150	W.M.	W.M.	300	As	S-5	0
		2015	S.C. Jalajaja Ruas 2	B.J.1 - B.J.2	W.M.	W.M.	840	1.0	0.9	S-3	3	2,520	200	W.M.	W.M.	200	As	S-5	0
		2015	S.C. Jalajaja Ruas 3	B.J.2 - B.J.3	W.M.	W.M.	810	1.0	0.9	S-3	3	2,430	-	W.M.	W.M.	200	As	S-5	0
			Total				2,800					8,400				2,800			-

IRRIGATION ASSET INVENTORY (Canal)

No	Asset Type	Year Built	Canal (Section) Name	Junction Point of Section	Over All Ranking			Road Length for New As Pavement				Inspection Road (IR)				L (m) = 52,931				
					2.70		2.70		Length X Soundness Ranking	Rehab Canal Length (m)		New Canal Lining		Road Length (m)	Pave-ment		Sound ness Ranking	New As Pavement Length (m)		
Dominant Lining of Existing Canal		Section Length (m)	Canal Bed Width (m)	Canal Wall Height (m)	Sound ness Ranking	Side Wall	Bed	Side Wall		Bed	Side Wall	Bed	Side Wall			Bed				
S-10	Secondary Canal								2013					S.C. Mabonta Ruas 1	B.K.Ka.28 - B.M.1		W.M.	W.M.	1,200	1.0
			Total				1,200					3,600					1,200			-
S-11	Secondary Canal	2015	S.C. Lambarese Ruas 1	B.K.Ka.28 - B.L.1	W.M.	W.M.	900	0.6	0.9	S-3	3	2,700	50	100	W.M.	W.M.	900	Gr	S-3	900
		2015	S.C. Lambarese Ruas 2	B.L.1 - B.L.2	W.M.	W.M.	1,100	0.6	0.9	S-4	4	4,400		200		W.M.	1,100	Gr	S-5	1,100
		2015	S.C. Lambarese Ruas 3	B.L.2 - B.L.3	W.M.	W.M.	900	0.6	0.9	S-4	4	3,600	100	250	W.M.	W.M.	900	Gr	S-4	900
			Total				2,900					10,700					2,900			2,900
S-12	Secondary Canal		Secondary Suppletion Canal La	B.S.3 - B.S.I.1	Earth	Earth	266	0.0	0.0	S-3	3	798	166	166	W.M.	W.M.	0	-		266
			Secondary Suppletion Canal La	B.S.I.1 - B.S.I.2	Earth	Earth	138	0.0	0.0	S-3	3	414	138	138	W.M.	W.M.	0	-		138
			Secondary Suppletion Canal La	B.S.I.2 - B.S.I.3	Earth	Earth	513	0.0	0.0	S-3	3	1,539	513	513	W.M.	W.M.	0	-		513
			Total				917					2,751					-			917
TOTAL							59,311					157,964					51,289			52,931

Over All Ranking
2.70

Over All Ranking
2.70

Over All Ranking
2.70

Over All Ranking
2.70

Note

Symbol of Canal Lining Types ;

Reinforced Concrete → RC
 Plain Concrete → PC
 Earth Canal → Earth

Wet Masonry → W.M.
 Block Masonry → Block
 Concrete → Conc.

Concrete Pavement → Conc.
 Asphaltic Pavement → As
 Gravel Pavement → Gr

Primary Canal Length **P 2** 19,679 m
 Secondary Canal Length **SC 12** 39,632 m

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: UPT Kalaena Kanan (B.A. : 6,222 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
1	Suppletion Weir		Bendung Suplesi	B.S.0	2021		
1	Division with Off-take		Bangunan Bagi Sadap	B.B.3	2021		S-3
2		1986	Bangunan Bagi Sadap	B.K.Ka.16	2021	S-4	S-1
3		1986	Bangunan Bagi Sadap	B.K.Ka.18	2021	S-4	S-3
4			Bangunan Bagi Sadap	B.K.Ka.22	2021	S-3	S-3
5			Bangunan Bagi Sadap	B.K.Ka.24	2021	S-3	S-1
6			Bangunan Bagi Sadap	B.K.Ka.26	2021	S-3	S-1
7			Bangunan Bagi Sadap	B.K.Ka.28	2021	S-3	S-1
8			Bangunan Bagi Sadap	B.Ms.4	2021	S-4	S-4
9			Bangunan Bagi Sadap	B.Tr.2	2021		
10	Off-take Structure		Bangunan Sadap	B.B.1	2021		S-3
11			Bangunan Sadap	B.B.2	2021		S-3
12			Bangunan Sadap	B.B.4	2021		S-1
13			Bangunan Sadap	B.B.5	2021		S-1
14			Bangunan Sadap	B.B.6	2021		S-1
15			Bangunan Sadap	B.B.7	2021		
16			Bangunan Sadap	B.B.8	2021		
17			Bangunan Sadap	B.J.1	2021		S-1
18			Bangunan Sadap	B.J.2	2021		S-1
19			Bangunan Sadap	B.J.3	2021		S-1
20		1986	Bangunan Sadap	B.K.Ka.17	2021	S-4	S-1
21		1986	Bangunan Sadap	B.K.Ka.19	2021	S-4	S-3
22			Bangunan Sadap	B.K.Ka.20	2021	S-3	S-3
23			Bangunan Sadap	B.K.Ka.21	2021	S-3	S-3
24			Bangunan Sadap	B.K.Ka.23	2021	S-3	S-3
25			Bangunan Sadap	B.K.Ka.25	2021	S-1	S-1
26			Bangunan Sadap	B.K.Ka.27	2021	S-1	S-1
27			Bangunan Sadap	B.L.1	2021		S-3
28			Bangunan Sadap	B.L.2	2021		
29			Bangunan Sadap	B.L.3	2021		
30			Bangunan Sadap	B.La.1	2021		
31			Bangunan Sadap	B.La.3	2021		
32			Bangunan Sadap	B.La.2	2021		
33			Bangunan Sadap	B.Ll.1	2021		
34			Bangunan Sadap	B.Ln.1	2021		
35			Bangunan Sadap	B.Ln.3	2021		
36			Bangunan Sadap	B.Ln.2	2021		
37			Bangunan Sadap	B.M.1	2021		
38			Bangunan Sadap	B.Ms.1	2021	S-3	S-1
39			Bangunan Sadap	B.Ms.2	2021		
40			Bangunan Sadap	B.Ms.3	2021		
41			Bangunan Sadap	B.Ms.5	2021		
42			Bangunan Sadap	B.Ms.6	2021		
43			Bangunan Sadap	B.S.1	2021		
44			Bangunan Sadap	B.S.2	2021		
45			Bangunan Sadap	B.S.4	2021		
46			Bangunan Sadap	B.S.5	2021		
47			Bangunan Sadap	B.S.6	2021		
48			Bangunan Sadap	B.S.7	2021		
49			Bangunan Sadap	B.Sl.1	2021		
50			Bangunan Sadap	B.Sl.2	2021		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: UPT Kalaena Kanan (B.A. : 6,222 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
51			Bangunan Sadap	B.SI.3	2021		
52			Bangunan Sadap	B.Tb.1	2021		
53			Bangunan Sadap	B.Tr.1	2021		
54			Bangunan Sadap	B.Tr.3	2021		S-1
55			Bangunan Sadap	B.Tr.4	2021		
56			Bangunan Sadap	B.Wt.1	2021		
57			Bangunan Sadap	B.Wt.2	2021		
1	Drainage Culvert	1986	Gorong-Gorong Pembuang	B.K.Ka.18b	2021	S-4	
2		1986	Gorong-Gorong Pembuang	B.K.Ka.18c	2021	S-3	
3			Gorong-Gorong Pembuang	B.K.Ka.22b	2021	S-3	
4			Gorong-Gorong Pembuang	B.K.Ka.22c	2021	S-5	
5			Gorong-Gorong Pembuang	B.K.Ka.23a	2021	S-3	
6			Gorong-Gorong Pembuang	B.K.Ka.23b	2021	S-3	
7			Gorong-Gorong Pembuang	B.K.Ka.24d	2021	S-4	
8			Gorong-Gorong Pembuang	B.K.Ka.25a	2021	S-3	
9			Gorong-Gorong Pembuang	B.K.Ka.26b	2021	S-4	
10			Gorong-Gorong Pembuang	B.Ms.6c	2021		
11			Gorong-Gorong Pembuang	B.L.1a	2021		
12			Gorong-Gorong Pembuang	B.Tr.1a	2021		
13	Culvert		Gorong-Gorong Jalan	B.B.4d	2021		
14			Gorong-Gorong Jalan	B.K.Ka.20j	2021	S-1	
15			Gorong-Gorong Jalan	B.La.1j	2021		
16			Gorong-Gorong Jalan	B.Ms.3f	2021		
17			Gorong-Gorong Jalan	B.Ms.6b	2021		
18			Gorong-Gorong Jalan	B.Tr.3a	2021		
19	Aqueduct		Talang	B.Tb.1a	2021		
1	Drop Structure		Bangunan Terjun	B.B.1a	2021		
2			Bangunan Terjun	B.B.2a	2021		
3			Bangunan Terjun	B.B.2c	2021		
4			Bangunan Terjun	B.B.4a	2021		
5			Bangunan Terjun	B.B.4b	2021		S-1
6			Bangunan Terjun	B.B.4c	2021		
7			Bangunan Terjun	B.B.5b	2021		
8			Bangunan Terjun	B.J.1a	2021		
9			Bangunan Terjun	B.J.1b	2021		
10			Bangunan Terjun	B.J.2a	2021		
11			Bangunan Terjun	B.K.Ka.20b	2021	S-4	
12			Bangunan Terjun	B.K.Ka.20c	2021	S-4	
13			Bangunan Terjun	B.K.Ka.20d	2021	S-4	
14			Bangunan Terjun	B.K.Ka.20f	2021	S-4	
15			Bangunan Terjun	B.K.Ka.20h	2021	S-4	
16			Bangunan Terjun	B.K.Ka.20i	2021	S-4	
17			Bangunan Terjun	B.K.Ka.24b	2021	S-4	
18			Bangunan Terjun	B.K.Ka.28b	2021	S-3	
19			Bangunan Terjun	B.L.2a	2021		
20			Bangunan Terjun	B.L.3a	2021		
21			Bangunan Terjun	B.La.1a	2021		

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: UPT Kalaena Kanan (B.A. : 6,222 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
22			Bangunan Terjun	B.La.1b	2021		
23			Bangunan Terjun	B.La.1c	2021		
24			Bangunan Terjun	B.La.1d	2021		
25			Bangunan Terjun	B.La.1e	2021		
26			Bangunan Terjun	B.La.1f	2021		
27			Bangunan Terjun	B.La.1g	2021		
28			Bangunan Terjun	B.La.1i	2021		
29			Bangunan Terjun	B.La.2a	2021		
30			Bangunan Terjun	B.La.2b	2021		
31			Bangunan Terjun	B.La.2c	2021		
32			Bangunan Terjun	B.La.3a	2021		S-1
33			Bangunan Terjun	B.Ll.1a	2021		
34			Bangunan Terjun	B.Ll.1b	2021		
35			Bangunan Terjun	B.Ln.1a	2021		S-1
36			Bangunan Terjun	B.Ln.1b	2021		
37			Bangunan Terjun	B.Ln.1c	2021		
38			Bangunan Terjun	B.Ln.2a	2021		
39			Bangunan Terjun	B.Ln.3a	2021		
40			Bangunan Terjun	B.M.1a	2021		
41			Bangunan Terjun	B.M.1b	2021		
42			Bangunan Terjun	B.M.1c	2021		
43			Bangunan Terjun	B.Ms.1a	2021	S-3	
44			Bangunan Terjun	B.Ms.1b	2021	S-3	
45			Bangunan Terjun	B.Ms.2a	2021		
46			Bangunan Terjun	B.Ms.2b	2021		
47			Bangunan Terjun	B.Ms.3a	2021		
48			Bangunan Terjun	B.Ms.3d	2021		
49			Bangunan Terjun	B.Ms.4a	2021		
50			Bangunan Terjun	B.Ms.5a	2021		
51			Bangunan Terjun	B.Ms.6a	2021		
52			Bangunan Terjun	B.Tr.2a	2021		
53			Bangunan Terjun	B.Tr.3b	2021		
1	Bridge		Jembatan	B.B.1b	2021		
2			Jembatan	B.B.2d	2021		
3			Jembatan	B.B.3a	2021		
4			Jembatan	B.B.4e	2021		
5			Jembatan	B.B.5a	2021		
6			Jembatan	B.B.6a	2021		
7		1986	Jembatan	B.K.Ka.16a	2021	S-3	
8		1986	Jembatan	B.K.Ka.18a	2021	S-4	
9		1986	Jembatan	B.K.Ka.18d	2021	S-3	
10			Jembatan	B.K.Ka.20a	2021	S-5	
11			Jembatan	B.K.Ka.20e	2021	S-5	
12			Jembatan	B.K.Ka.23c	2021	S-3	
13			Jembatan	B.K.Ka.24a	2021	S-4	
14			Jembatan	B.K.Ka.24c	2021	S-4	
15			Jembatan	B.K.Ka.24e	2021	S-4	
16			Jembatan	B.K.Ka.25b	2021	S-3	
17			Jembatan	B.K.Ka.26a	2021	S-4	
18			Jembatan	B.K.Ka.26c	2021	S-4	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: UPT Kalaena Kanan (B.A. : 6,222 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
19			Jembatan	B.K.Ka.28a	2021	S-5	
20			Jembatan	B.K.Ka.26e	2021	S-4	
21			Jembatan	B.L.1b	2021		
22			Jembatan	B.La.1h	2021		
23			Jembatan	B.La.2d	2021		
24			Jembatan	B.La.3b	2021		
25			Jembatan	B.Ms.2c	2021		
26			Jembatan	B.Ms.3c	2021		
27			Jembatan	B.Ms.4b	2021		
28			Jembatan	B.S.1a	2021		
29			Jembatan	B.S.1b	2021		
30	Foot Bridge		Jembatan Orang	B.Ms.3b	2021		
31			Jembatan Orang	B.B.2b	2021		
20	Observator Office	2018	Kantor Pengamat		2021	S-5	
21		1994	Rumah Jaga		2021	S-1	
22		1992	Rumah Juru		2021	S-1	
23		1992	Rumah Pengamat		2021	S-3	
24		1993	Rumah PPA		2021	S-1	
25	Division Structure		Bangunan Bagi	B.S.3	2021		
26	Side Spillway		Bangunan Pelimpah	B.K.Ka.20g	2021	S-1	
27			Bangunan Pelimpah	B.K.Ka.21a	2021	S-5	
28			Bangunan Pelimpah	B.K.Ka.22d	2021	S-5	
29			Bangunan Pelimpah	B.K.Ka.26d	2021	S-4	
30	Syphon		Siphon	B.K.Ka.21b	2021	S-4	S-3
31			Siphon	B.K.Ka.22e	2021	S-4	S-4
32			Siphon	B.K.Ka.27a	2021	S-1	
33	Washing Place		Tangga Cuci	B.K.Ka.20k	2021	S-5	
34			Tangga Cuci	B.K.Ka.22a	2021	S-5	
35			Tangga Cuci	B.Ms.3e	2021		

TOTAL			
Number of structure	S-5	9	0
	S-4	25	2
	S-3	20	10
	S-2	0	0
	S-1	8	17
	Sum (Nos)	91	62
Soundness Ranking	Average	3.44	1.90
	Structure Ave.	<u>2.95</u>	

IRRIGATION ASSET INVENTORY (Civil & Mechanical)**DIName: Kalaena Kiri (B.A. : 4,618 ha)**

No	Asset Type	Year Built	Structure Name	Facility Name	Survey Year	Civil Facility	Mechanical
						Ranking	Ranking
1	Permanent Weir		Bendung Kalaena	B.K.Ki.0	2021	S5	
1	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.1	2021		S4
2	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.2	2021		S4
3	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.11	2021		S4
4	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.13	2021		S4
5	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.14	2021		S4
6	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.15	2021		S4
7	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.16	2021		S4
8	Division with off-take		Bangunan Bagi Sadap	B.K.Ki.19	2021		S4
9	Off-take Structure		Bangunan Sadap	B.K.Ki.3	2021		S4
10	Off-take Structure		Bangunan Sadap	B.K.Ki.4	2021		S4
11	Off-take Structure		Bangunan Sadap	B.K.Ki.5	2021		S4
12	Off-take Structure		Bangunan Sadap	B.K.Ki.6	2021		S3
13	Off-take Structure		Bangunan Sadap	B.K.Ki.7	2021		S4
14	Off-take Structure		Bangunan Sadap	B.K.Ki.8	2021		S3
15	Off-take Structure		Bangunan Sadap	B.K.Ki.9	2021		S4
16	Off-take Structure		Bangunan Sadap	B.K.Ki.10	2021		S4
17	Off-take Structure		Bangunan Sadap	B.K.Ki.12	2021		S3
18	Off-take Structure		Bangunan Sadap	B.K.Ki.17	2021		S4
19	Off-take Structure		Bangunan Sadap	B.K.Ki.18	2021		S4
20	Off-take Structure		Bangunan Sadap	B.P.1	2021	S2	S4
21	Off-take Structure		Bangunan Sadap	B.P.2	2021	S2	S3
22	Off-take Structure		Bangunan Sadap	B.P.3	2021	S2	S3
23	Off-take Structure		Bangunan Sadap	B.P.4	2021	S1	S1
24	Off-take Structure		Bangunan Sadap	B.P.5	2021	S1	S1
25	Off-take Structure		Bangunan Sadap	B.P.6	2021	S1	S1
26	Off-take Structure		Bangunan Sadap	B.S.1	2021		S4
27	Off-take Structure		Bangunan Sadap	B.S.2	2021		S4
28	Off-take Structure		Bangunan Sadap	B.S.3	2021		S4
29	Off-take Structure		Bangunan Sadap	B.S.4	2021		S4
30	Off-take Structure		Bangunan Sadap	B.S.5	2021		S4
31	Off-take Structure		Bangunan Sadap	B.T.1	2021		S4
32	Off-take Structure		Bangunan Sadap	B.T.2	2021		S4
33	Off-take Structure		Bangunan Sadap	B.T.3	2021		S4
34	Off-take Structure		Bangunan Sadap	B.T.4	2021		S4
35	Off-take Structure		Bangunan Sadap	B.Tg.1	2021		S4
1	Drainage Culvert		Gorong-Gorong Pembuang	B.A.I.2 a	2021	S5	
2	Drainage Culvert		Gorong-Gorong Pembuang	B.A.III.1c	2021	S5	
3	Drainage Culvert		Gorong-Gorong Pembuang	B.B.5a	2021	S5	
4	Drainage Culvert		Gorong-Gorong Pembuang	B.K.Ki.5a	2021	S5	
5	Drainage Culvert		Gorong-Gorong Pembuang	B.K.Ki.9a	2021	S5	
6	Drainage Culvert		Gorong-Gorong Pembuang	B.K.Ki.14a	2021	S5	
7	Drainage Culvert		Gorong-Gorong Pembuang	B.K.Ki.17b	2021	S5	
8	Drainage Culvert		Gorong-Gorong Pembuang	B.T.1 d	2021	S5	
9	Drainage Culvert		Gorong-Gorong Pembuang	B.T.2a	2021	S4	
10	Drainage Culvert		Gorong-Gorong Pembuang	B.T.2b	2021	S3	
11	Drainage Culvert		Gorong-Gorong Pembuang	B.Tg.1b	2021	S5	
12	Culvert		Gorong-Gorong Jalan	B.A.III.1b	2021	S5	
13	Culvert		Gorong-Gorong Jalan	B.A.IV.1b	2021	S5	

