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## LAMPIRAN

### Lampiran 1. Kondisi lahan lokasi titik pengamatan pada sistem pertanaman langsung



Lokasi 1



Lokasi 2



Lokasi 3



Lokasi 4

**Lampiran 2.** Permukaan tanah dalam *ring* pada titik pengamatan



Lokasi 1



Lokasi 2



Lokasi 3



Lokasi 4

**Lampiran 3.** Pengaplikasian larutan *methylene blue*



Melarutkan *methylene blue* dengan air



Menuangkan larutan *methylene blue* ke *double ring*



Permukaan tanah yang larutan *methylene blue* telah terinfiltrasi



**Lampiran 4.** Penggalan penampang tanah untuk pengamatan pori makro, pengamatan dan pengambilan sampel akar, dan pengambilan sampel tanah



**Lampiran 5.** Proses pengamatan pori makro tanah



**Lampiran 6.** Proses pengamatan sebaran akar dan pengambilan sampel akar tanaman langsung



**Lampiran 7.** Proses analisis tanah di laboratorium



Analisis tekstur



Analisis C-Organik

**Lampiran 8.** Tabel karakteristik sifat tanah pada sistem pertanaman langsung

Nama satuan lahan	Kedalaman	Pasir	Debu	Liat	<i>Bulk density</i> g/cm <sup>-3</sup>	C-organik g kg <sup>-1</sup>	Kelas tekstur
	cm						
Lokasi 1	0-20	175,74	514,64	309,62	1,40	18,0	Lempung liat berdebu
Lokasi 2		87,36	583,29	329,35	1,26	18,7	Lempung liat berdebu
Lokasi 3		291,92	462,14	245,94	1,29	15,8	Lempung
Lokasi 4		267,22	504,18	228,60	1,50	14,0	Lempung berdebu
Rata-rata		205,56	516,06	278,38	1,36	16,6	Lempung berdebu
Lokasi 1	20-40	123,58	293,51	582,90	1,40	20,0	Liat
Lokasi 2		103,52	414,08	482,40	Dominasi batu	12,4	Liat berdebu
Lokasi 3		94,56	573,29	332,15	1,46	7,0	Lempung liat berdebu
Lokasi 4		190,27	406,98	402,75	1,37	13,0	Liat berdebu
Rata-rata		127,99	421,96	450,05	1,41	13,1	Liat berdebu

**Lampiran 9.** Kenampakan sebaran pori makro (warna biru) pada penampang tanah



Lokasi 1



Lokasi 2

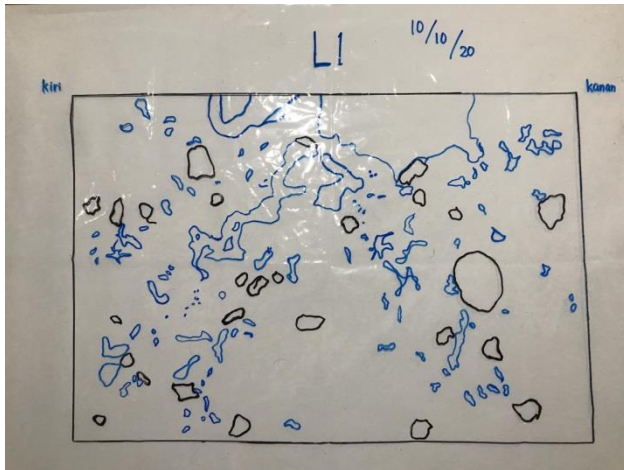


Lokasi 3



Lokasi 4

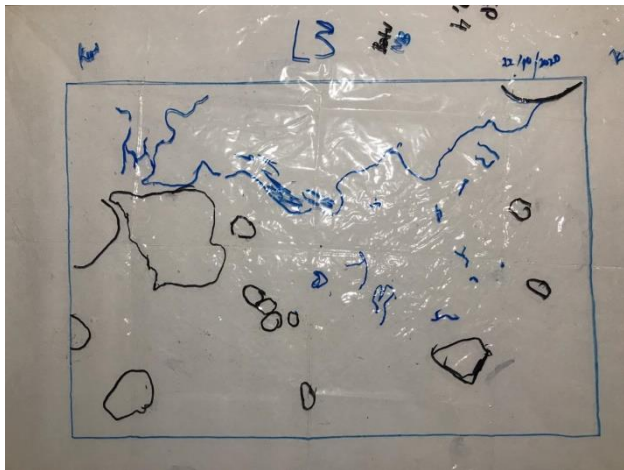
**Lampiran 10.** Hasil *overlay* pori makro (warna biru) dan batu (warna hitam) dari setiap lokasi pengamatan



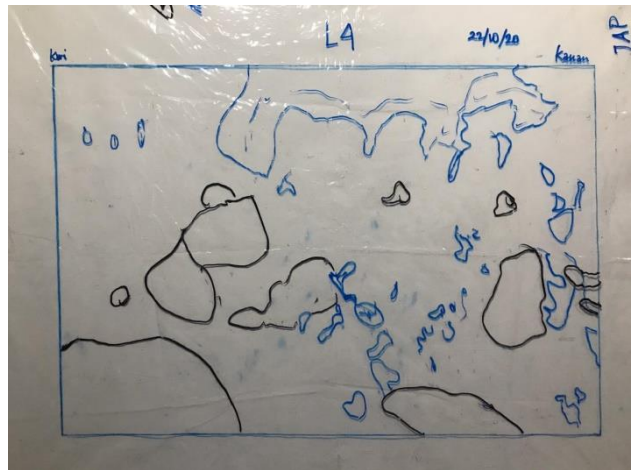
Lokasi 1



Lokasi 2



Lokasi 3



Lokasi 4

**Lampiran 11.** Hasil pengukuran pori makro dan akar tanaman langsung dari setiap lokasi pengamatan

Pori makro (%)					Jumlah akar					DRV (g)				
L1	L2	L3	L4	Rata-rata	L1	L2	L3	L4	Rata-rata	L1	L2	L3	L4	Rata-rata
0.50	0.00	0.75	0.54	0.45	13	2	14	12	10	1.18	0.60	1.46	4.99	2.06
1.29	0.33	3.38	0.67	1.42	9	7	22	17	14	3.88	1.63	0.96	5.49	2.99
2.21	1.83	4.17	3.04	2.81	11	6	0	4	5	0.63	2.06	1.13	2.32	1.53
3.50	1.13	4.04	3.00	2.92	7	9	16	15	12	0.52	1.39	1.55	4.92	2.09
2.83	1.33	3.58	3.50	2.81	5	17	9	11	11	0.18	4.07	2.96	1.53	2.19
0.92	0.17	0.67	1.21	0.74	4	9	9	9	8	0.27	2.40	2.32	2.17	1.79
0.88	0.00	0.17	0.00	0.26	6	6	9	7	7	0.10	0.91	2.36	0.22	0.90
1.63	0.00	0.58	0.04	0.56	7	3	17	6	8	0.42	3.77	0.71	0.91	1.45
1.42	0.46	1.63	0.50	1.00	9	5	7	7	7	0.63	5.83	0.56	0.51	1.88
1.38	1.38	0.67	0.00	0.85	2	2	18	8	8	0.10	0.02	0.39	0.50	0.25
0.58	0.29	0.33	0.58	0.45	2	6	10	6	6	0.77	0.14	1.22	0.83	0.74
0.13	0.00	0.00	0.83	0.24	3	5	8	5	5	0.19	1.02	1.11	0.73	0.76
0.67	0.00	0.00	0.00	0.17	0	4	4	4	3	0.01	0.15	0.79	0.46	0.35
1.17	0.00	0.00	0.00	0.29	3	3	4	1	3	0.17	0.16	0.62	0.49	0.36
0.42	0.00	0.21	0.33	0.24	0	4	7	3	4	0.00	2.03	0.36	0.36	0.69
0.54	1.00	0.42	1.29	0.81	0	4	6	3	3	0.01	0.14	0.23	0.12	0.12
0.71	0.08	0.00	0.79	0.40	3	0	2	3	2	0.15	0.08	0.69	0.87	0.45
0.13	0.00	0.00	1.25	0.34	2	0	2	1	1	0.01	0.00	0.28	0.64	0.23
0.71	0.00	0.00	0.04	0.19	0	4	3	0	2	0.00	0.04	2.13	0.04	0.55
0.96	0.00	0.00	0.00	0.24	0	1	3	0	1	0.00	0.03	1.91	0.06	0.50
0.29	0.00	0.00	0.00	0.07	0	4	3	0	2	0.09	3.53	0.10	0.00	0.93
0.00	0.25	0.00	0.67	0.23	0	3	0	0	1	0.01	0.83	0.15	0.04	0.26
0.63	0.00	0.00	0.13	0.19	0	0	4	1	1	0.00	0.00	1.07	0.01	0.27
0.25	0.00	0.00	0.58	0.21	1	0	4	2	2	0.06	0.00	0.13	0.07	0.07

**Lampiran 12.** Kriteria penilaian hasil analisis *bulk density*, porositas, dan C-organik

Parameter tanah	Sangat rendah	Rendah	Sedang	Tinggi	Sangat tinggi
<i>Bulk density</i> (g cm <sup>-3</sup> )	<1,2	1,2-1,3	1,3-1,4	1,4-1,5	>1,5
Porositas (%)	<10	10-15	15-18	18-20	>20
C-organik (%)	<0,5	0,5-1	1- 3	3 – 5	5-10

(Sumber : Lal, 1994)