

DAFTAR PUSTAKA

- Agustang, A., Mulyani, S., & Indrawati, E. 2019. Analisis Kelayakan Lahan Budidaya Rumput Laut *Gracilaria* sp. Di Tambak Kecamatan Sinjai Utara Kabupaten Sinjai. *Journal of Aquaculture and Environment*, 2(1): 18-22.
- Almualam, Kasim M., dan Salwiyah. 2016. Laju Penempelan Makroepifit Pada Talus *Kappaphyus alvarezii* di Perairan Lakorua Kabupaten Buton Tengah. *Menejemen Sumber Daya Perairan*. 1 (3): 237-248.
- Amalia, D. R. N. (2013). Efek Temperatur terhadap Pertumbuhan *Gracilaria verrucosa*.
- Anonymus, 2010. Produksi rumput laut *Gracilaria* (*Gracilaria verrucosa*) dengan metode tebar di tambak secara polikultur. Standar Nasional Indonesia [SNI] Nomor 7578. Badan Standar Nasional..
- Anonymus, 2014. Budidaya Rumput Laut : *Gracilaria* di Tambak. WWF Indonesia. Jakarta.
- Arisandi, A., A. Farid dan S. Rokhmaniati. 2013. Dampak Infeksi Ice-ice dan Epifit terhadap Pertumbuhan *Eucheuma cottonii*. [Jurnal]. Jurusan Ilmu Kelautan, Fakultas Pertanian, Universitas Trunojoyo.
- Asni A. 2015. Analisis Produksi Rumput Laut (*Kappaphycus alvarezii*) Berdasarkan Musim dan Jarak Lokasi Budidaya di Perairan Kabupaten Bantaeng. *Jurnal Akuatika*. 6(2): 140–153.
- Baracca, R.T. 1999. Seaweed (Carrageenophyte) Culture. Coastal Resource Management Project. Cebu City, Philippines.
- Dawes, C.J., 1981. Marine Botany. John Wiley Dawson University of South Florida New York.
- Desy, A. S., Izzati, M., & Prihastanti, E. (2016). Pengaruh jarak tanam pada metode longline terhadap pertumbuhan dan rendemen agar *Gracilaria verrucosa* (Hudson) Papenfuss. *Jurnal Akademika Biologi*, 5(2), 11-22.
- Ghazali M., Kurnianingsih R., Astuti S.P., Fajar B.F., 2017, Keanekaragaman Makroalga Epifit Pada Makroalga Budidaya Pulau Lombok, Laporan Penelitian, Universitas Mataram
- Guiry, M.D. & Guiry, G.M. (2022). AlgaeBase. World-wide electronic publication, National University of Ireland, Galway (taxonomic information republished from AlgaeBase with permission of M.D. Guiry). *Gracilaria changii* (B.M.Xia & I.A.Abbott) I.A.Abbott, J.Zhang & B.M.Xia, 1991. Accessed through: World Register of Marine Species at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=371181> on 2022-06-02`
- Hasan, M.R., Rejeki, S., & Ariyati, R.W. 2015. Pengaruh bobot awal yang berbeda terhadap pertumbuhan *Gracilaria* sp. yang dibudidayakan dengan metode long line di perairan tambak terabrasi Desa Kaliwlingi Kabupaten Brebes. *Journal of Aquaculture Management and Technology*, 4(2), 92-99
- Hurtado AQ, Bleicher-Lhonneur G, Critchley AT. 2005. *Kappaphycus* 'Cotonii' Farming. Degusa – ISDA. Philippines.

- Hutabarat dan Evans. 2001. Pengantar Oseonografi. Universitas Indonesia. Jakarta.
- Ingle KN et al (2018) Marine intergrated pest management (MIPM) approach for sustainable seagiculture. *Algal Res* 29(November 2017):223-232.
- Kadi, A., dan Atmadja, W. S. 1998. Rumpit Laut Jenis Algae. Reproduksi,Produksi, Budidaya dan Pasca Panen. Proyek Studi Potensi Sumberdaya Alam Indonesia. Jakarta: Pusat penelitian dan Pengembangan Oseanologi.Lembaga Ilmu Pengetahuan Indonesia.
- Largo DB. 2006. Diseses in cultivated in the Philippines: Is it an issue among Seaweed Industry Players?. *Advances In Seaweed Cultivation And Utilisation In Asia*. Phang, Critchley And Ang eds. *Proceedings* of a workshop held in conjunction with the 7th Asian Fisheries Forum, Penang, Malaysia, December 2004. University of Malaysia Research Centre. p 61-70.
- Loban, 1997. *Seaweed Ecology and Physiology*. Penerbit ITB. Bandung.
- Luning, K. 1990. *Seaweeds , their environment, biogeography and ecophysiology*. John Wiley. New York. 527 p.
- Mala, L., Latama, G., Abustang, A., & Tuwo, A. (2016). Analisis Perbandingan Pertumbuhan Rumpit Laut *Kappaphycus alvarezii* Varietas Coklat yang Terkena Epifit di Perairan Libukang, Kabupaten Jeneponto. *Jurnal Rumpit Laut Indonesia*, 1(1).
- Mamang, Nurfadly. 2008. Laju Pertumbuhan Bibit Rumpit Laut *Euचेuma cottonii* Dengan Perlakuan Asal Thallus Terhadap Bobot Bibit di Perairan Lakeba, Kota Bau-Bau, Sulawesi Tenggara. [skripsi] Institut Teknologi Bogor. Bogor.
- Menip, M. (2018). IDENTIFIKASI MAKROALGA EPIFIT PADA BUDIDAYA *Kappaphycus* spp. DI PERAIRAN TELUK SEREWE KABUPATEN LOMBOK TIMUR IDENTIFICATION OF EPIFIT MACROALGAE IN CULTURE *Kappaphycus* spp. AT SEREWE BAY DISTRICT, EAST LOMBOK (Doctoral dissertation, Universitas Mataram).
- Mudeng, J. D. (2017). Epifit pada rumput laut di lahan budidaya desa Tumbak. *e-Journal BUDIDAYA PERAIRAN*, 5(3).
- Muntsji, A.R. 1972. Beberapa Aspek Biologi Rumpit Laut, Skripsi Dalam Mata Ajaran Pokok Hidrologi. Institut Pertanian Bogor. Fakultas Pertanian.
- Prasetyo, T. 2007. Parameter Oeanografi sebagai Faktor Penentu Pertumbuhan Rumpit Laut *Kappaphycus alvarezii* di Pulau Pari Kepulauan Seribu OKI Jakarta. Fakultas Perikan- an dan Ilmu Kelautan. Institut Pertanian Bogor, Bogor
- Rahman, S.A. 2010. Analisis Pemulihan Ice-ice pada Rumpit Laut *Kappaphycus alvarezii* dengan Dosis Pupuk N, P, K Berbeda. Tesis. Program Pasca arjana. Universitas Hasanud- din, Makassar.
- Romimohtarto, K., dan Juwana, S., 2001. Pengelolaan Sumberdaya Wilayah Pesisir Secara Berkelanjutan. Djembatan. Jakarta.
- Situmorang, A. P., & Prayitno, S. B. (2016). Pengaruh Konsentrasi Konsorsium Bakteri K4, K5 Dan K6 Terhadap Tingkat Kesehatan Rumpit Laut (*Euचेuma Cottonii*). *Journal of Aquaculture Management and Technology*, 5(1), 146-154.

- Soegiarto, A., Sulistijo, Atmadja, W.S., Mubarak, H. 1978. Rumput Laut (Algae) Manfaat, Potensi dan Usaha Budidayanya. LONLIPI, Jakarta.
- Sugiyatno, S., Izzat, M., & Prihastanti, E. (2013). Manajemen budidaya dan pengolahan pasca panen *Gracilaria verrucosa* (Hudson) Papenfus. Studi kasus: Tambak Desa Mororejo Kecamatan Kaliwungu Kabupaten Kendal. Buletin Anatomi
- Sulistijo. 1985. Budidaya Rumput Laut. Laboratorium Marikultur, Lembaga Nasional LIPL. Jakarta.
- Suparmi, S., & Sahri, A. (2009). Mengenal potensi rumput laut: kajian pemanfaatan sumber daya rumput laut dari aspek industri dan kesehatan. *Majalah Ilmiah Sultan Agung*, 44(118), 95-116.
- Susanto, A.B dan A. Mucktiyany. 2002. Strategi Pengembangan Rumput Laut Pada SMK dan Community College. Pros. Seminar Riptek Kelautan Nasional.
- Tresnati, J., Yasir, I., Bestari, A. D., Yanti, A., Aprianto, R., & Tuwo, A. (2021, May). Effect of salinity on the growth of seaweed *Gracilaria changii* (Xia and Abbott, 1987). In *IOP Conference Series: Earth and Environmental Science* (Vol. 763, No. 1, p. 012030). IOP Publishing.
- Vairappan, C.S. (2006). Seasonal Occurrences of Epiphytic Algae on The Commercially Cultivated Red Alga *K.alvarezii* (Solieriaceae, Gigartinales, Rhodophyta). *Journal of Applied Phycology*, 18, 611-617.
- Yulianto, K. 2004. Fenomena Faktor Pengontrol Penyebab Kerugian Pada Budidaya KaraginoFit di Indonesia. *Oseana*, 2 (29): 17 –23. LIPI.
- Zatnika, A. 2009. Pedoman Teknis Budidaya Rumput Laut. Badan Pengkajian dan Penerapan Teknologi. Jakarta.

LAMPIRAN

Lampiran 1. Data hasil uji sidik ragam dan uji lanjut pekan 1

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 375.511 | 2 | 187.756 | 4.036 | .046 |
| Within Groups | 558.307 | 12 | 46.526 | | |
| Total | 933.818 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | 2.44200 | 4.31396 | .840 | -9.0671 | 13.9511 |
| | Lokasi 3 | -9.18000 | 4.31396 | .126 | -20.6891 | 2.3291 |
| Lokasi 2 | Lokasi 1 | -2.44200 | 4.31396 | .840 | -13.9511 | 9.0671 |
| | Lokasi 3 | -11.62200* | 4.31396 | .048 | -23.1311 | -.1129 |
| Lokasi 3 | Lokasi 1 | 9.18000 | 4.31396 | .126 | -2.3291 | 20.6891 |
| | Lokasi 2 | 11.62200* | 4.31396 | .048 | .1129 | 23.1311 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 2 | 5 | 31.9460 | |
| Lokasi 1 | 5 | 34.3880 | 34.3880 |
| Lokasi 3 | 5 | | 43.5680 |
| Sig. | | .840 | .126 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 2. Data hasil uji sidik ragam dan uji lanjut pekan 2

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 1355.287 | 2 | 677.644 | 6.282 | .014 |
| Within Groups | 1294.443 | 12 | 107.870 | | |
| Total | 2649.730 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -23.27000* | 6.56872 | .010 | -40.7945 | -5.7455 |
| | Lokasi 3 | -10.95200 | 6.56872 | .257 | -28.4765 | 6.5725 |
| Lokasi 2 | Lokasi 1 | 23.27000* | 6.56872 | .010 | 5.7455 | 40.7945 |
| | Lokasi 3 | 12.31800 | 6.56872 | .188 | -5.2065 | 29.8425 |
| Lokasi 3 | Lokasi 1 | 10.95200 | 6.56872 | .257 | -6.5725 | 28.4765 |
| | Lokasi 2 | -12.31800 | 6.56872 | .188 | -29.8425 | 5.2065 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 1 | 5 | 17.0080 | |
| Lokasi 3 | 5 | 27.9600 | 27.9600 |
| Lokasi 2 | 5 | | 40.2780 |
| Sig. | | .257 | .188 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 3. Data hasil uji sidik Ragam dan uji lanjut pekan 3

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 662.754 | 2 | 331.377 | 2.778 | .102 |
| Within Groups | 1431.344 | 12 | 119.279 | | |
| Total | 2094.098 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -10.24400 | 6.90735 | .333 | -28.6719 | 8.1839 |
| | Lokasi 3 | -16.08200 | 6.90735 | .090 | -34.5099 | 2.3459 |
| Lokasi 2 | Lokasi 1 | 10.24400 | 6.90735 | .333 | -8.1839 | 28.6719 |
| | Lokasi 3 | -5.83800 | 6.90735 | .683 | -24.2659 | 12.5899 |
| Lokasi 3 | Lokasi 1 | 16.08200 | 6.90735 | .090 | -2.3459 | 34.5099 |
| | Lokasi 2 | 5.83800 | 6.90735 | .683 | -12.5899 | 24.2659 |

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 |
|-----------|---|----------------------------|
| | | 1 |
| Lokasi 1 | 5 | 6.5460 |
| Lokasi 2 | 5 | 16.7900 |
| Lokasi 3 | 5 | 22.6280 |
| Sig. | | .090 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 4. Data hasil uji sidik ragam dan uji lanjut pekan 4

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 110.331 | 2 | 55.165 | 11.475 | .002 |
| Within Groups | 57.689 | 12 | 4.807 | | |
| Total | 168.020 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -3.58600 | 1.38671 | .058 | -7.2856 | .1136 |
| | Lokasi 3 | -6.63600* | 1.38671 | .001 | -10.3356 | -2.9364 |
| Lokasi 2 | Lokasi 1 | 3.58600 | 1.38671 | .058 | -.1136 | 7.2856 |
| | Lokasi 3 | -3.05000 | 1.38671 | .112 | -6.7496 | .6496 |
| Lokasi 3 | Lokasi 1 | 6.63600* | 1.38671 | .001 | 2.9364 | 10.3356 |
| | Lokasi 2 | 3.05000 | 1.38671 | .112 | -.6496 | 6.7496 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 1 | 5 | 6.1280 | |
| Lokasi 2 | 5 | 9.7140 | 9.7140 |
| Lokasi 3 | 5 | | 12.7640 |
| Sig. | | .058 | .112 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 5. Data hasil uji sidik Ragam dan uji lanjut pekan 5

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 160.937 | 2 | 80.468 | 8.680 | .005 |
| Within Groups | 111.246 | 12 | 9.270 | | |
| Total | 272.183 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -5.45800* | 1.92567 | .037 | -10.5954 | -.3206 |
| | Lokasi 3 | -7.82200* | 1.92567 | .004 | -12.9594 | -2.6846 |
| Lokasi 2 | Lokasi 1 | 5.45800* | 1.92567 | .037 | .3206 | 10.5954 |
| | Lokasi 3 | -2.36400 | 1.92567 | .460 | -7.5014 | 2.7734 |
| Lokasi 3 | Lokasi 1 | 7.82200* | 1.92567 | .004 | 2.6846 | 12.9594 |
| | Lokasi 2 | 2.36400 | 1.92567 | .460 | -2.7734 | 7.5014 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 1 | 5 | 6.4380 | |
| Lokasi 2 | 5 | | 11.8960 |
| Lokasi 3 | 5 | | 14.2600 |
| Sig. | | 1.000 | .460 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 6. Data hasil uji sidik ragam dan uji lanjut pekan 6

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 284.789 | 2 | 142.394 | 10.082 | .003 |
| Within Groups | 169.481 | 12 | 14.123 | | |
| Total | 454.270 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|--------------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -8.99600* | 2.37684 | .007 | -15.3371 | -2.6549 |
| | Lokasi 3 | -9.47200* | 2.37684 | .005 | -15.8131 | -3.1309 |
| Lokasi 2 | Lokasi 1 | 8.99600* | 2.37684 | .007 | 2.6549 | 15.3371 |
| | Lokasi 3 | -.47600 | 2.37684 | .978 | -6.8171 | 5.8651 |
| Lokasi 3 | Lokasi 1 | 9.47200* | 2.37684 | .005 | 3.1309 | 15.8131 |
| | Lokasi 2 | .47600 | 2.37684 | .978 | -5.8651 | 6.8171 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 1 | 5 | 4.2060 | |
| Lokasi 2 | 5 | | 13.2020 |
| Lokasi 3 | 5 | | 13.6780 |
| Sig. | | 1.000 | .978 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 7. Data hasil uji sidik ragam dan uji lanjut pekan 7

ANOVA

Ulangan

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 151.045 | 2 | 75.522 | 12.865 | .001 |
| Within Groups | 70.447 | 12 | 5.871 | | |
| Total | 221.491 | 14 | | | |

Multiple Comparisons

Dependent Variable: Ulangan

Tukey HSD

| (I) Perlakuan | (J) Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---------------|---------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| Lokasi 1 | Lokasi 2 | -5.98800* | 1.53239 | .005 | -10.0762 | -1.8998 |
| | Lokasi 3 | -7.28600* | 1.53239 | .001 | -11.3742 | -3.1978 |
| Lokasi 2 | Lokasi 1 | 5.98800* | 1.53239 | .005 | 1.8998 | 10.0762 |
| | Lokasi 3 | -1.29800 | 1.53239 | .682 | -5.3862 | 2.7902 |
| Lokasi 3 | Lokasi 1 | 7.28600* | 1.53239 | .001 | 3.1978 | 11.3742 |
| | Lokasi 2 | 1.29800 | 1.53239 | .682 | -2.7902 | 5.3862 |

*. The mean difference is significant at the 0.05 level.

Ulangan

Tukey HSD

| Perlakuan | N | Subset for alpha = 0.05 | |
|-----------|---|-------------------------|---------|
| | | 1 | 2 |
| Lokasi 1 | 5 | 6.1380 | |
| Lokasi 2 | 5 | | 12.1260 |
| Lokasi 3 | 5 | | 13.4240 |
| Sig. | | 1.000 | .682 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 8. Data kualitas air pekan 2

| Lokasi | Suhu Perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 31 | 31 | 7,90 | 4,11 | 16,00 | 0,10 | 0,02 | 0,04 |
| | 31 | 31 | 7,82 | 4,02 | 35,50 | 0,12 | 0,02 | 0,05 |
| | 31 | 31 | 8,08 | 4,00 | 45,00 | 0,10 | 0,02 | 0,05 |
| Rerata | 31 | 31 | 7,93 | 4,04 | 32,17 | 0,10 | 0,02 | 0,05 |
| Lokasi 2 | 33°C | 31 ppt | 8,02 | 3,85 | 20,00 | 0,12 | 0,02 | 0,05 |
| | 33°C | 31 ppt | 8,02 | 3,86 | 32,00 | 0,13 | 0,02 | 0,06 |
| | 33°C | 31 ppt | 8,02 | 3,93 | 26,50 | 0,10 | 0,02 | 0,06 |
| Rerata | | | 8,02 | 3,88 | 26,17 | 0,12 | 0,02 | 0,06 |
| Lokasi 3 | 32°C | 31 ppt | 8,13 | 3,86 | 43,50 | 0,21 | 0,02 | 0,03 |
| | 32°C | 31 ppt | 8,10 | 3,94 | 29,50 | 0,19 | 0,02 | 0,05 |
| | 32°C | 31 ppt | 8,05 | 3,95 | 33,00 | 0,25 | 0,03 | 0,04 |
| Rerata | | | 8,09 | 3,92 | 35,33 | 0,21 | 0,02 | 0,04 |

Lampiran 9. Data kualitas air pekan 3

| Lokasi | Suhu perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 31°C | 31 ppt | 7,30 | 4,73 | 38,50 | 0,10 | 0,07 | 0,02 |
| | 31°C | 31 ppt | 7,50 | 4,33 | 50,50 | 0,35 | 0,03 | 0,03 |
| | 31°C | 31 ppt | 8,08 | 4,39 | 51,00 | 0,21 | 0,05 | 0,03 |
| Rerata | | | 7,63 | 4,48 | 46,67 | 0,22 | 0,05 | 0,02 |
| Lokasi 2 | 31°C | 31 ppt | 7,98 | 3,94 | 50,50 | 0,10 | 0,02 | 0,02 |
| | 31°C | 31 ppt | 8,15 | 4,13 | 55,00 | 0,12 | 0,02 | 0,03 |
| | 31°C | 31 ppt | 8,18 | 4,17 | 51,00 | 0,16 | 0,02 | 0,03 |
| Rerata | | | 8,10 | 4,08 | 52,17 | 0,13 | 0,02 | 0,02 |
| Lokasi 3 | 31°C | 31 ppt | 8,07 | 3,94 | 46,00 | 0,22 | 0,02 | 0,02 |
| | 31°C | 31 ppt | 8,01 | 4,02 | 36,50 | 0,21 | 0,02 | 0,03 |
| | 31°C | 31 ppt | 8,06 | 4,02 | 36,00 | 0,20 | 0,02 | 0,03 |
| Rerata | | | 8,05 | 3,99 | 39,50 | 0,21 | 0,02 | 0,03 |

Lampiran 10. Data kualitas air pekan 4

| Lokasi | Suhu perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 31°C | 25 ppt | 7,97 | 4,13 | 25,00 | 0,25 | 0,03 | 0,10 |
| | 31°C | 26 ppt | 7,98 | 4,10 | 22,50 | 0,23 | 0,07 | 0,10 |
| | 31°C | 26 ppt | 8,04 | 4,10 | 22,00 | 0,26 | 0,02 | 0,11 |
| Rerata | | | 8,00 | 4,11 | 23,17 | 0,25 | 0,04 | 0,10 |
| Lokasi 2 | 31°C | 23 ppt | 8,13 | 4,13 | 22,5 | 0,23 | 0,02 | 0,14 |
| | 31°C | 26 ppt | 8,16 | 4,13 | 24,00 | 0,19 | 0,06 | 0,13 |
| | 31°C | 22 ppt | 8,13 | 4,13 | 25,00 | 0,20 | 0,06 | 0,13 |
| Rerata | | | 8,14 | 4,13 | 24,50 | 0,21 | 0,05 | 0,14 |
| Lokasi 3 | 31°C | 25 ppt | 8,15 | 4,09 | 35,00 | 0,15 | 0,02 | 0,12 |
| | 31°C | 25 ppt | 8,14 | 4,19 | 36,50 | 0,11 | 0,07 | 0,12 |
| | 31°C | 25 ppt | 8,13 | 4,22 | 34,50 | 0,16 | 0,05 | 0,11 |
| Rerata | | | 8,14 | 4,17 | 35,33 | 0,14 | 0,04 | 0,12 |

Lampiran 11. Data kualitas air pekan 5

| Lokasi | Suhu perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 30°C | 32 ppt | 8,00 | 4,19 | 59,00 | 0,11 | 0,01 | 0,03 |
| | 30°C | 32 ppt | 8,41 | 4,22 | 79,00 | 0,15 | 0,02 | 0,03 |
| | 30°C | 32 ppt | 8,22 | 4,68 | 69,50 | 0,11 | 0,00 | 0,01 |
| Rerata | | | 8,21 | 4,36 | 69,17 | 0,12 | 0,01 | 0,02 |
| Lokasi 2 | 31°C | 32 ppt | 8,06 | 4,89 | 56,50 | 0,14 | 0,01 | 0,03 |
| | 31°C | 32 ppt | 7,03 | 4,88 | 67,00 | 0,11 | 0,01 | 0,02 |
| | 31°C | 32 ppt | 7,03 | 4,86 | 60,50 | 0,13 | 0,01 | 0,02 |
| Rerata | | | 7,37 | 4,88 | 61,33 | 0,13 | 0,01 | 0,03 |
| Lokasi 3 | 31°C | 32 ppt | 7,68 | 4,72 | 57,00 | 0,15 | 0,01 | 0,04 |
| | 31°C | 32 ppt | 8,21 | 4,65 | 52,00 | 0,10 | 0,01 | 0,03 |
| | 31°C | 32 ppt | 8,29 | 4,88 | 55,50 | 0,10 | 0,01 | 0,03 |
| Rerata | | | 8,06 | 4,75 | 54,83 | 0,12 | 0,01 | 0,03 |

Lampiran 12. Data kualitas air pekan 6

| Lokasi | Suhu perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 28°C | 7 ppt | 8,03 | 5,12 | 16,50 | 0,12 | 0,37 | 0,16 |
| | 28°C | 7 ppt | 7,89 | 4,98 | 12,50 | 0,13 | 0,31 | 0,17 |
| | 28°C | 7 ppt | 7,94 | 5,02 | 16,00 | 0,16 | 0,27 | 0,17 |
| Rerata | 28 C | 7 ppt | 7,95 | 5,04 | 15,00 | 0,14 | 0,32 | 0,17 |
| Lokasi 2 | 29°C | 14 ppt | 7,76 | 6,54 | 35,00 | 0,13 | 0,05 | 0,16 |
| | 29°C | 14 ppt | 7,85 | 4,52 | 33,00 | 0,21 | 0,09 | 0,18 |
| | 29°C | 14 ppt | 7,96 | 4,54 | 36,00 | 0,19 | 0,06 | 0,19 |
| Rerata | 29 C | 14 ppt | 7,86 | 5,20 | 34,67 | 0,18 | 0,06 | 0,18 |
| Lokasi 3 | 29°C | 11 ppt | 8,10 | 4,98 | 39,00 | 0,14 | 0,10 | 0,20 |
| | 29°C | 11 ppt | 8,09 | 4,85 | 36,50 | 0,21 | 0,14 | 0,20 |
| | 29°C | 11 ppt | 8,08 | 4,47 | 37,50 | 0,13 | 0,10 | 0,20 |
| Rerata | 29°C | 11 ppt | 8,09 | 4,77 | 37,67 | 0,16 | 0,11 | 0,20 |

Lampiran 13. Data kualitas air pekan 7

| Lokasi | Suhu perairan | Salinitas | pH | DO | Kecerahan | Arus | Nitrat | Posfat |
|----------|---------------|-----------|------|------|-----------|------|--------|--------|
| Lokasi 1 | 29 C | 28 ppt | 8,19 | 5,25 | 19,50 | 0,10 | 0,02 | 0,06 |
| | 29 C | 28 ppt | 8,19 | 5,25 | 29,00 | 0,13 | 0,03 | 0,06 |
| | 29 C | 28 ppt | 8,20 | 5,13 | 38,50 | 0,14 | 0,02 | 0,04 |
| Rerata | 29 C | 28 ppt | 8,19 | 5,21 | 29,00 | 0,12 | 0,02 | 0,05 |
| Lokasi 2 | 29 C | 31 ppt | 8,13 | 6,60 | 48,00 | 0,14 | 0,03 | 0,02 |
| | 29 C | 31 ppt | 8,30 | 7,42 | 45,00 | 0,17 | 0,02 | 0,03 |
| | 29 C | 31 ppt | 8,29 | 7,61 | 46,50 | 0,15 | 0,03 | 0,04 |
| Rerata | 29 C | 31 ppt | 8,24 | 7,21 | 46,50 | 0,15 | 0,03 | 0,03 |
| Lokasi 3 | 29 C | 31 ppt | 8,31 | 7,75 | 55,50 | 0,28 | 0,02 | 0,04 |
| | 29 C | 31 ppt | 8,32 | 7,92 | 46,00 | 0,22 | 0,02 | 0,04 |
| | 29 C | 31 ppt | 8,71 | 7,96 | 47,50 | 0,14 | 0,03 | 0,04 |
| Rerata | 29 C | 31 ppt | 8,45 | 7,88 | 49,67 | 0,21 | 0,03 | 0,04 |

Lampiran 14. Bobot rumput laut, epifit dan persentase epifit pekan 1

Lokasi. 1

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.1 | 9,32 | 6,41 | 2,91 | 31,22 |
| 1.2 | 4,84 | 3,34 | 1,50 | 30,99 |
| 1.3 | 7,28 | 3,98 | 3,30 | 45,33 |
| 1.4 | 23,28 | 14,96 | 8,32 | 35,74 |
| 1.5 | 15,84 | 11,30 | 4,54 | 28,66 |
| RATA-RATA | 12,11 | 8,00 | 4,11 | 34,39 |
| STDEV | 7,47 | 5,00 | 2,59 | 6,63 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.1 | 8,29 | 5,26 | 3,03 | 36,55 |
| 2.2 | 12,00 | 7,41 | 4,59 | 38,25 |
| 2.3 | 13,30 | 11,12 | 2,18 | 16,39 |
| 2.4 | 14,72 | 9,42 | 5,30 | 36,01 |
| 2.5 | 11,59 | 7,82 | 3,77 | 32,53 |
| RATA-RATA | 11,98 | 8,21 | 3,77 | 31,94 |
| STDEV | 2,40 | 2,20 | 1,23 | 8,94 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.1 | 9,51 | 5,05 | 4,46 | 46,90 |
| 3.2 | 7,00 | 3,78 | 3,22 | 46,00 |
| 3.3 | 11,80 | 6,32 | 5,48 | 46,44 |
| 3.4 | 3,99 | 2,42 | 1,57 | 39,35 |
| 3.5 | 4,93 | 3,00 | 1,93 | 39,15 |
| RATA-RATA | 7,45 | 4,11 | 3,33 | 43,57 |
| STDEV | 3,23 | 1,58 | 1,66 | 3,96 |

Lampiran 15. Bobot rumput laut, epifit dan persentase epifit pekan 2

Lokasi. 1

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.6 | 37,70 | 35,97 | 1,73 | 4,59 |
| 1.7 | 29,94 | 24,39 | 5,55 | 18,54 |
| 1.8 | 20,96 | 15,98 | 4,98 | 23,76 |
| 1.9 | 25,40 | 21,49 | 3,91 | 15,39 |
| 1.10 | 7,03 | 5,43 | 1,60 | 22,76 |
| RATA-RATA | 24,21 | 20,65 | 3,55 | 17,01 |
| STDEV | 11,42 | 11,21 | 1,82 | 7,71 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.6 | 21,52 | 14,40 | 7,12 | 33,09 |
| 2.7 | 11,00 | 7,75 | 3,25 | 29,55 |
| 2.8 | 18,07 | 11,52 | 6,55 | 36,25 |
| 2.9 | 7,03 | 3,14 | 3,89 | 55,33 |
| 2.10 | 18,00 | 9,51 | 8,49 | 47,17 |
| RATA-RATA | 15,12 | 9,26 | 5,86 | 40,28 |
| STDEV | 5,92 | 4,22 | 2,22 | 10,69 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.6 | 16,30 | 13,24 | 3,06 | 18,77 |
| 3.7 | 17,07 | 14,60 | 2,47 | 14,47 |
| 3.8 | 5,20 | 2,82 | 2,38 | 45,77 |
| 3.9 | 14,29 | 10,15 | 4,14 | 28,97 |
| 3.10 | 8,36 | 5,70 | 2,66 | 31,82 |
| RATA-RATA | 12,24 | 9,30 | 2,94 | 27,96 |
| STDEV | 5,21 | 4,98 | 0,72 | 12,24 |

Lampiran 16. Bobot rumput laut, epifit dan persentase epifit pekan 3

Lokasi.1

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.11 | 63,50 | 61,88 | 1,62 | 2,55 |
| 1.12 | 44,25 | 38,28 | 5,97 | 13,49 |
| 1.13 | 60,62 | 56,50 | 4,12 | 6,80 |
| 1.14 | 73,88 | 73,03 | 0,85 | 1,15 |
| 1.15 | 68,40 | 62,42 | 5,98 | 8,74 |
| RATA-RATA | 62,13 | 58,42 | 3,71 | 6,55 |
| STDEV | 11,19 | 12,75 | 2,40 | 4,95 |

Lokasi.2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.11 | 12,15 | 9,83 | 2,32 | 19,09 |
| 2.12 | 16,32 | 12,50 | 3,82 | 23,41 |
| 2.13 | 14,82 | 12,79 | 2,03 | 13,70 |
| 2.14 | 12,92 | 11,53 | 1,39 | 10,76 |
| 2.15 | 19,72 | 16,37 | 3,35 | 16,99 |
| RATA-RATA | 15,19 | 12,60 | 2,58 | 16,79 |
| STDEV | 3,01 | 2,40 | 0,99 | 4,88 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.11 | 21,08 | 10,11 | 10,97 | 52,04 |
| 3.12 | 16,40 | 15,04 | 1,36 | 8,29 |
| 3.13 | 27,59 | 24,44 | 3,15 | 11,42 |
| 3.14 | 21,90 | 16,46 | 5,44 | 24,84 |
| 3.15 | 49,30 | 41,14 | 8,16 | 16,55 |
| RATA-RATA | 27,25 | 21,44 | 5,82 | 22,63 |
| STDEV | 12,95 | 12,16 | 3,85 | 17,59 |

Lampiran 17. Bobot rumput laut, epifit dan persentase epifit pekan 4

Lokasi. 1

| Kode sampel | Berat Basah (g) | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-----------------|--------------|--------------|-------------------|
| 1.16 | 223,66 | 212,83 | 10,83 | 4,84 |
| 1.17 | 134,61 | 125,61 | 9,00 | 6,69 |
| 1.18 | 229,01 | 216,91 | 12,10 | 5,28 |
| 1.19 | 108,54 | 100,24 | 8,30 | 7,65 |
| 1.20 | 156,38 | 146,72 | 9,66 | 6,18 |
| RATA-RATA | 170,44 | 160,46 | 9,98 | 6,13 |
| STDEV | 53,80 | 52,34 | 1,51 | 1,12 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.16 | 164,00 | 153,82 | 10,18 | 6,21 |
| 2.17 | 61,30 | 52,94 | 8,36 | 13,64 |
| 2.18 | 97,70 | 89,39 | 8,31 | 8,51 |
| 2.19 | 127,00 | 116,28 | 10,72 | 8,44 |
| 2.20 | 90,58 | 79,92 | 10,66 | 11,77 |
| RATA-RATA | 108,12 | 98,47 | 9,65 | 9,71 |
| STDEV | 39,01 | 38,34 | 1,22 | 2,96 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.16 | 52,03 | 45,93 | 6,10 | 11,72 |
| 3.17 | 45,40 | 37,92 | 7,48 | 16,48 |
| 3.18 | 45,60 | 39,96 | 5,64 | 12,37 |
| 3.19 | 147,03 | 129,74 | 17,29 | 11,76 |
| 3.20 | 106,03 | 93,85 | 12,18 | 11,49 |
| RATA-RATA | 79,22 | 69,48 | 9,74 | 12,76 |
| STDEV | 45,64 | 40,77 | 4,95 | 2,10 |

Lampiran 18. Bobot rumput laut, epifit dan persentase epifit pekan 5

Lokasi. 1

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.21 | 72,80 | 68,72 | 4,08 | 5,60 |
| 1.22 | 61,34 | 55,96 | 5,38 | 8,77 |
| 1.23 | 33,19 | 29,73 | 3,46 | 10,42 |
| 1.24 | 47,21 | 45,63 | 1,58 | 3,35 |
| 1.25 | 52,86 | 50,72 | 2,14 | 4,05 |
| RATA-RATA | 53,48 | 50,15 | 3,33 | 6,44 |
| STDEV | 14,89 | 14,29 | 1,52 | 3,05 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.21 | 50,31 | 43,01 | 7,30 | 14,51 |
| 2.22 | 43,27 | 38,93 | 4,34 | 10,03 |
| 2.23 | 94,80 | 82,97 | 11,83 | 12,48 |
| 2.24 | 34,50 | 29,75 | 4,75 | 13,77 |
| 2.25 | 76,30 | 69,67 | 6,63 | 8,69 |
| RATA-RATA | 59,84 | 52,87 | 6,97 | 11,90 |
| STDEV | 25,00 | 22,44 | 2,99 | 2,47 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.21 | 40,51 | 34,02 | 6,49 | 16,02 |
| 3.22 | 70,59 | 63,82 | 6,77 | 9,59 |
| 3.23 | 33,79 | 27,78 | 6,01 | 17,79 |
| 3.24 | 40,61 | 35,94 | 4,67 | 11,50 |
| 3.25 | 58,43 | 48,85 | 9,58 | 16,40 |
| RATA-RATA | 48,79 | 42,08 | 6,70 | 14,26 |
| STDEV | 15,24 | 14,37 | 1,80 | 3,52 |

Lampiran 19. Bobot rumput laut, epifit dan persentase epifit pekan 6

Lokasi. 1

| Kode sampel | Berat Basah | Berat Bersih | Berat epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.26 | 214,11 | 208,55 | 5,56 | 2,60 |
| 1.27 | 165,21 | 158,32 | 6,89 | 4,17 |
| 1.28 | 116,52 | 109,53 | 6,99 | 6,00 |
| 1.29 | 194,55 | 187,93 | 6,62 | 3,40 |
| 1.30 | 269,01 | 255,93 | 13,08 | 4,86 |
| RATA-RATA | 191,88 | 184,05 | 7,83 | 4,21 |
| STDEV | 56,66 | 54,77 | 2,99 | 1,31 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih (g) | Berat Epifit | Persentase Epifit |
|-------------|-------------|---------------------|--------------|-------------------|
| 2.26 | 119,25 | 109,89 | 9,36 | 7,85 |
| 2.27 | 74,20 | 62,56 | 11,64 | 15,69 |
| 2.28 | 124,01 | 111,87 | 12,14 | 9,79 |
| 2.29 | 75,90 | 67,54 | 8,36 | 11,01 |
| 2.30 | 69,92 | 54,77 | 15,15 | 21,67 |
| RATA-RATA | 92,66 | 81,33 | 11,33 | 13,20 |
| STDEV | 26,59 | 27,37 | 2,65 | 5,54 |

Lokasi. 3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.26 | 60,80 | 49,76 | 11,04 | 18,16 |
| 3.27 | 127,81 | 107,92 | 19,89 | 15,56 |
| 3.28 | 65,76 | 57,52 | 8,24 | 12,53 |
| 3.29 | 69,01 | 60,87 | 8,14 | 11,80 |
| 3.30 | 66,24 | 59,39 | 6,85 | 10,34 |
| RATA-RATA | 77,92 | 67,09 | 10,83 | 13,68 |
| STDEV | 28,04 | 23,22 | 5,29 | 3,15 |

Lampiran 20. Bobot rumput laut, epifit dan persentase epifit pekan 7

Lokasi. 1

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 1.31 | 163,55 | 154,34 | 9,21 | 5,63 |
| 1.32 | 147,23 | 139,55 | 7,68 | 5,22 |
| 1.33 | 133,34 | 126,90 | 6,44 | 4,83 |
| 1.34 | 140,05 | 128,52 | 11,53 | 8,23 |
| 1.35 | 115,12 | 107,32 | 7,80 | 6,78 |
| RATA-RATA | 139,86 | 131,33 | 8,53 | 6,14 |
| STDEV | 17,82 | 17,33 | 1,94 | 1,38 |

Lokasi. 2

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 2.31 | 126,32 | 103,89 | 22,43 | 17,76 |
| 2.32 | 148,34 | 132,40 | 15,94 | 10,75 |
| 2.33 | 95,56 | 83,94 | 11,62 | 12,16 |
| 2.34 | 140,69 | 129,64 | 11,05 | 7,85 |
| 2.35 | 33,76 | 29,67 | 4,09 | 12,11 |
| RATA-RATA | 108,93 | 95,91 | 13,03 | 12,13 |
| STDEV | 46,62 | 42,02 | 6,76 | 1,38 |

Lokasi.3

| Kode sampel | Berat Basah | Berat Bersih | Berat Epifit | Persentase Epifit |
|-------------|-------------|--------------|--------------|-------------------|
| 3.31 | 188,56 | 159,67 | 28,89 | 15,32 |
| 3.32 | 134,59 | 118,82 | 15,77 | 11,72 |
| 3.33 | 114,97 | 101,56 | 13,41 | 11,66 |
| 3.34 | 116,58 | 99,78 | 16,80 | 14,41 |
| 3.35 | 120,19 | 103,35 | 16,84 | 14,01 |
| RATA-RATA | 134,98 | 116,64 | 18,34 | 13,42 |
| STDEV | 30,94 | 25,22 | 6,06 | 1,65 |

Lampiran 21. Dokumentasi penelitian



Pemasangan bentangan



Pengambilan sampel



Pengukuran kualitas air



Pemisahan epifit dan material yang menempel



Epifit dan material yang menempel