

**Lampiran 1.** Data Hasil Pengukuran Konsentrasi Nutrien pada Ekosistem Terumbu Karang Alami dan Buatan dengan Alat *Colorimetri Portable DR 900* (HACH 8039).

**351 N Nitrat LR (Low Range)**

<b>Sampel A</b>	<b>Konsentrasi</b>
A. 5. 1 Btmwater Ar_1.1	0.01
A. 5. 2 Btmwater Ar_2.1	0.00
A. 5. 3 Btmwater Ar_3.1	0.01
A. 5. 4 Btmwater Ar_4.1	0.00
A. 5. 5 Btmwater Ar_5.1	0.00
A. 5. 6 Btmwater Ar_6.1	0.00
A. 6. 1 Btmwater Ar_6.2	0.00
A. 6. 2 Btmwater Ar_5.2	0.01
A. 6. 3 Btmwater Ar_4.2	0.00
A. 6. 4 Btmwater Ar_3.2	0.00
A. 6. 5 Btmwater Ar_2.2	0.00
A. 6. 6 Btmwater Ar_1.2	0.02
A. 7. 1 Btmwater Ar_1.3	0.00
A. 7. 2 Btmwater Ar_2.3	0.00
A. 7. 3 Btmwater Ar_3.3	0.00
A. 7. 4 Btmwater Ar_4.3	0.01
A. 7. 5 Btmwater Ar_5.3	0.00
A. 7. 6 Btmwater Ar_6.3	0.00
A. 8. 1 Btmwater Ar_6.4	0.00
A. 8. 2 Btmwater Ar_5.4	0.00
A. 8. 3 Btmwater Ar_4.4	0.00
A. 8. 4 Btmwater Ar_3.4	0.01
A. 8. 5 Btmwater Ar_2.4	0.00
A. 8. 6 Btmwater Ar_1.4	0.00
A. 9. 1 Btmwater Ar_1.5	0.00
A. 9. 2 Btmwater Ar_2.5	0.00
A. 9. 3 Btmwater Ar_3.5	0.00
A. 9. 4 Btmwater Ar_4.5	0.00
A. 9. 5 Btmwater Ar_5.5	0.00
A. 9. 6 Btmwater Ar_6.5	0.00

**371 N Nitrit LR (Low Range)**

<b>Sampel A</b>	<b>Konsentrasi</b>
A. 5. 1 Btmwater Ar_1.1	0.000
A. 5. 2 Btmwater Ar_2.1	0.005
A. 5. 3 Btmwater Ar_3.1	0.002
A. 5. 4 Btmwater Ar_4.1	0.001
A. 5. 5 Btmwater Ar_5.1	0.003
A. 5. 6 Btmwater Ar_6.1	0.004
A. 6. 1 Btmwater Ar_6.2	0.004
A. 6. 2 Btmwater Ar_5.2	0.002
A. 6. 3 Btmwater Ar_4.2	0.003
A. 6. 4 Btmwater Ar_3.2	0.004
A. 6. 5 Btmwater Ar_2.2	0.006
A. 6. 6 Btmwater Ar_1.2	0.004
A. 7. 1 Btmwater Ar_1.3	0.002
A. 7. 2 Btmwater Ar_2.3	0.002
A. 7. 3 Btmwater Ar_3.3	0.003
A. 7. 4 Btmwater Ar_4.3	0.003
A. 7. 5 Btmwater Ar_5.3	0.002
A. 7. 6 Btmwater Ar_6.3	0.004
A. 8. 1 Btmwater Ar_6.4	0.003
A. 8. 2 Btmwater Ar_5.4	0.003
A. 8. 3 Btmwater Ar_4.4	0.004
A. 8. 4 Btmwater Ar_3.4	0.005
A. 8. 5 Btmwater Ar_2.4	0.003
A. 8. 6 Btmwater Ar_1.4	0.003
A. 9. 1 Btmwater Ar_1.5	0.003
A. 9. 2 Btmwater Ar_2.5	0.003
A. 9. 3 Btmwater Ar_3.5	0.003
A. 9. 4 Btmwater Ar_4.5	0.003
A. 9. 5 Btmwater Ar_5.5	0.002
A. 9. 6 Btmwater Ar_6.5	0.004

**385 N Amonia Salic LR (Powder)**

<b>Sampel A</b>	<b>Konsentrasi</b>
A. 5. 1 Btmwater Ar_1.1	0.05
A. 5. 2 Btmwater Ar_2.1	0.04
A. 5. 3 Btmwater Ar_3.1	0.00
A. 5. 4 Btmwater Ar_4.1	0.01
A. 5. 5 Btmwater Ar_5.1	0.00
A. 5. 6 Btmwater Ar_6.1	0.00
A. 6. 1 Btmwater Ar_6.2	0.00
A. 6. 2 Btmwater Ar_5.2	0.00
A. 6. 3 Btmwater Ar_4.2	0.00
A. 6. 4 Btmwater Ar_3.2	0.00
A. 6. 5 Btmwater Ar_2.2	0.00
A. 6. 6 Btmwater Ar_1.2	0.00
A. 7. 1 Btmwater Ar_1.3	0.00
A. 7. 2 Btmwater Ar_2.3	0.00
A. 7. 3 Btmwater Ar_3.3	0.00
A. 7. 4 Btmwater Ar_4.3	0.00
A. 7. 5 Btmwater Ar_5.3	0.00
A. 7. 6 Btmwater Ar_6.3	0.00
A. 8. 1 Btmwater Ar_6.4	0.00
A. 8. 2 Btmwater Ar_5.4	0.00
A. 8. 3 Btmwater Ar_4.4	0.00
A. 8. 4 Btmwater Ar_3.4	0.00
A. 8. 5 Btmwater Ar_2.4	0.00
A. 8. 6 Btmwater Ar_1.4	0.03
A. 9. 1 Btmwater Ar_1.5	0.00
A. 9. 2 Btmwater Ar_2.5	0.00
A. 9. 3 Btmwater Ar_3.5	0.02
A. 9. 4 Btmwater Ar_4.5	0.00
A. 9. 5 Btmwater Ar_5.5	0.00
A. 9. 6 Btmwater Ar_6.5	0.00

## 485 P React. Amino

Sampel A	Konsentrasi
A. 5. 1 Btmwater Ar_1.1	0.6
A. 5. 2 Btmwater Ar_2.1	0.0
A. 5. 3 Btmwater Ar_3.1	0.8
A. 5. 4 Btmwater Ar_4.1	0.3
A. 5. 5 Btmwater Ar_5.1	0.8
A. 5. 6 Btmwater Ar_6.1	0.9
A. 6. 1 Btmwater Ar_6.2	0.8
A. 6. 2 Btmwater Ar_5.2	0.7
A. 6. 3 Btmwater Ar_4.2	0.9
A. 6. 4 Btmwater Ar_3.2	0.8
A. 6. 5 Btmwater Ar_2.2	0.4
A. 6. 6 Btmwater Ar_1.2	0.2
A. 7. 1 Btmwater Ar_1.3	0.8
A. 7. 2 Btmwater Ar_2.3	0.8
A. 7. 3 Btmwater Ar_3.3	0.7
A. 7. 4 Btmwater Ar_4.3	0.7
A. 7. 5 Btmwater Ar_5.3	1.5
A. 7. 6 Btmwater Ar_6.3	0.9
A. 8. 1 Btmwater Ar_6.4	0.8
A. 8. 2 Btmwater Ar_5.4	0.8
A. 8. 3 Btmwater Ar_4.4	0.7
A. 8. 4 Btmwater Ar_3.4	0.9
A. 8. 5 Btmwater Ar_2.4	1.2
A. 8. 6 Btmwater Ar_1.4	0.9
A. 9. 1 Btmwater Ar_1.5	0.9
A. 9. 2 Btmwater Ar_2.5	0.8
A. 9. 3 Btmwater Ar_3.5	0.8
A. 9. 4 Btmwater Ar_4.5	0.8
A. 9. 5 Btmwater Ar_5.5	0.7
A. 9. 6 Btmwater Ar_6.5	0.8

**351 N Nitrat LR (Low Range)**

<b>Sampel C</b>	<b>Konsentrasi</b>
C. 5. 1 Btmwater C_1.1	0.00
C. 5. 2 Btmwater C_1.2	0.01
C. 5. 3 Btmwater C_3.1	0.00
C. 5. 4 Btmwater C_4.1	0.00
C. 5. 5 Btmwater C_6.1	0.03
C. 5. 6 Btmwater C_3.2	0.00
C. 6. 1 Btmwater C_2.2	0.00
C. 6. 2 Btmwater C_5.2	0.00
C. 6. 3 Btmwater C_4.2	0.00
C. 6. 4 Btmwater C_6.2	0.00
C. 6. 5 Btmwater C_2.1	0.00
C. 6. 6 Btmwater C_2.3	0.01
C. 7. 1 Btmwater C_1.3	0.01
C. 7. 2 Btmwater C_6.4	0.00
C. 7. 3 Btmwater C_3.3	0.00
C. 7. 4 Btmwater C_4.3	0.00
C. 7. 5 Btmwater C_5.3	0.00
C. 7. 6 Btmwater C_6.3	0.00
C. 8. 1 Btmwater C_6.5	0.00
C. 8. 2 Btmwater C_5.4	0.00
C. 8. 3 Btmwater C_4.4	0.00
C. 8. 4 Btmwater C_3.4	0.00
C. 8. 5 Btmwater C_2.4	0.00
C. 8. 6 Btmwater C_1.4	0.00
C. 9. 1 Btmwater C_1.5	0.00
C. 9. 2 Btmwater C_2.5	0.02
C. 9. 3 Btmwater C_3.5	0.00
C. 9. 4 Btmwater C_4.5	0.01
C. 9. 5 Btmwater C_5.5	0.00
C. 9. 6 Btmwater C_5.1	0.00

**371 N Nitrit LR (Low Range)**

<b>Sampel C</b>	<b>Konsentrasi</b>
C. 5. 1 Btmwater C_1.1	0.001
C. 5. 2 Btmwater C_1.2	0.002
C. 5. 3 Btmwater C_3.1	0.005
C. 5. 4 Btmwater C_4.1	0.001
C. 5. 5 Btmwater C_6.1	0.003
C. 5. 6 Btmwater C_3.2	0.002
C. 6. 1 Btmwater C_2.2	0.002
C. 6. 2 Btmwater C_5.2	0.003
C. 6. 3 Btmwater C_4.2	0.002
C. 6. 4 Btmwater C_6.2	0.003
C. 6. 5 Btmwater C_2.1	0.002
C. 6. 6 Btmwater C_2.3	0.002
C. 7. 1 Btmwater C_1.3	0.003
C. 7. 2 Btmwater C_6.4	0.002
C. 7. 3 Btmwater C_3.3	0.002
C. 7. 4 Btmwater C_4.3	0.003
C. 7. 5 Btmwater C_5.3	0.002
C. 7. 6 Btmwater C_6.3	0.003
C. 8. 1 Btmwater C_6.5	0.005
C. 8. 2 Btmwater C_5.4	0.002
C. 8. 3 Btmwater C_4.4	0.003
C. 8. 4 Btmwater C_3.4	0.003
C. 8. 5 Btmwater C_2.4	0.003
C. 8. 6 Btmwater C_1.4	0.003
C. 9. 1 Btmwater C_1.5	0.003
C. 9. 2 Btmwater C_2.5	0.004
C. 9. 3 Btmwater C_3.5	0.004
C. 9. 4 Btmwater C_4.5	0.004
C. 9. 5 Btmwater C_5.5	0.002
C. 9. 6 Btmwater C_5.1	0.001

**385 N Amonia Salic LR (Powder)**

<b>Sampel C</b>	<b>Konsentrasi</b>
C. 5. 1 Btmwater C_1.1	0.00
C. 5. 2 Btmwater C_1.2	0.00
C. 5. 3 Btmwater C_3.1	0.00
C. 5. 4 Btmwater C_4.1	0.00
C. 5. 5 Btmwater C_6.1	0.02
C. 5. 6 Btmwater C_3.2	0.04
C. 6. 1 Btmwater C_2.2	0.00
C. 6. 2 Btmwater C_5.2	0.00
C. 6. 3 Btmwater C_4.2	0.00
C. 6. 4 Btmwater C_6.2	0.04
C. 6. 5 Btmwater C_2.1	0.00
C. 6. 6 Btmwater C_2.3	0.00
C. 7. 1 Btmwater C_1.3	0.00
C. 7. 2 Btmwater C_6.4	0.00
C. 7. 3 Btmwater C_3.3	0.00
C. 7. 4 Btmwater C_4.3	0.00
C. 7. 5 Btmwater C_5.3	0.00
C. 7. 6 Btmwater C_6.3	0.00
C. 8. 1 Btmwater C_6.5	0.03
C. 8. 2 Btmwater C_5.4	0.02
C. 8. 3 Btmwater C_4.4	0.00
C. 8. 4 Btmwater C_3.4	0.00
C. 8. 5 Btmwater C_2.4	0.00
C. 8. 6 Btmwater C_1.4	0.00
C. 9. 1 Btmwater C_1.5	0.00
C. 9. 2 Btmwater C_2.5	0.00
C. 9. 3 Btmwater C_3.5	0.00
C. 9. 4 Btmwater C_4.5	0.02
C. 9. 5 Btmwater C_5.5	0.00
C. 9. 6 Btmwater C_5.1	0.03

## 485 P React. Amino

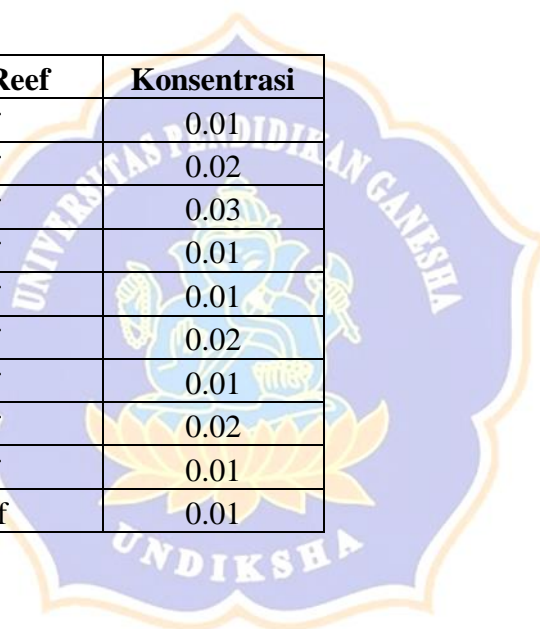
Sampel C	Konsentrasi
C. 5. 1 Btmwater C_1.1	0.7
C. 5. 2 Btmwater C_1.2	1.1
C. 5. 3 Btmwater C_3.1	0.8
C. 5. 4 Btmwater C_4.1	0.6
C. 5. 5 Btmwater C_6.1	0.7
C. 5. 6 Btmwater C_3.2	0.6
C. 6. 1 Btmwater C_2.2	0.7
C. 6. 2 Btmwater C_5.2	0.9
C. 6. 3 Btmwater C_4.2	0.9
C. 6. 4 Btmwater C_6.2	0.7
C. 6. 5 Btmwater C_2.1	0.8
C. 6. 6 Btmwater C_2.3	0.6
C. 7. 1 Btmwater C_1.3	0.7
C. 7. 2 Btmwater C_6.4	0.6
C. 7. 3 Btmwater C_3.3	1.3
C. 7. 4 Btmwater C_4.3	3.8
C. 7. 5 Btmwater C_5.3	1.5
C. 7. 6 Btmwater C_6.3	1.1
C. 8. 1 Btmwater C_6.5	0.6
C. 8. 2 Btmwater C_5.4	0.9
C. 8. 3 Btmwater C_4.4	0.9
C. 8. 4 Btmwater C_3.4	2.7
C. 8. 5 Btmwater C_2.4	1.1
C. 8. 6 Btmwater C_1.4	0.8
C. 9. 1 Btmwater C_1.5	0.8
C. 9. 2 Btmwater C_2.5	0.8
C. 9. 3 Btmwater C_3.5	1.1
C. 9. 4 Btmwater C_4.5	0.8
C. 9. 5 Btmwater C_5.5	0.7
C. 9. 6 Btmwater C_5.1	0.6



**351 N Nitrat LR (Low Range)**

<b>Sampel Pore Ar_Reef</b>	<b>Konsentrasi</b>
Pore 1 Ar_Reef	0.01
Pore 2 Ar_Reef	0.01
Pore 3 Ar_Reef	0.01
Pore 4 Ar_Reef	0.00
Pore 5 Ar_Reef	0.01
Pore 6 Ar_Reef	0.01
Pore 7 Ar_Reef	0.01
Pore 8 Ar_Reef	0.00
Pore 9 Ar_Reef	0.04
Pore 10 Ar_Reef	0.01

<b>Sampel Pore C_Reef</b>	<b>Konsentrasi</b>
Pore 1 C_Reef	0.01
Pore 2 C_Reef	0.02
Pore 3 C_Reef	0.03
Pore 4 C_Reef	0.01
Pore 5 C_Reef	0.01
Pore 6 C_Reef	0.02
Pore 7 C_Reef	0.01
Pore 8 C_Reef	0.02
Pore 9 C_Reef	0.01
Pore 10 C_Reef	0.01



**371 N Nitrit LR (Low Range)**

<b>Sampel Pore Ar_Reef</b>	<b>Konsentrasi</b>
Pore 1 Ar_Reef	0.004
Pore 2 Ar_Reef	0.004
Pore 3 Ar_Reef	0.004
Pore 4 Ar_Reef	0.005
Pore 5 Ar_Reef	0.004
Pore 6 Ar_Reef	0.003
Pore 7 Ar_Reef	0.004
Pore 8 Ar_Reef	0.005
Pore 9 Ar_Reef	0.004
Pore 10 Ar_Reef	0.004

<b>Sampel Pore C_Reef</b>	<b>Konsentrasi</b>
Pore 1 C_Reef	0.004
Pore 2 C_Reef	0.003
Pore 3 C_Reef	0.007
Pore 4 C_Reef	0.003
Pore 5 C_Reef	0.004
Pore 6 C_Reef	0.004
Pore 7 C_Reef	0.003
Pore 8 C_Reef	0.005
Pore 9 C_Reef	0.003
Pore 10 C_Reef	0.003



**385 N Amonia Salic LR (Powder)**

<b>Sampel Pore Ar_Reef</b>	<b>Konsentrasi</b>
Pore 1 Ar_Reef	0.05
Pore 2 Ar_Reef	0.15
Pore 3 Ar_Reef	0.06
Pore 4 Ar_Reef	0.00
Pore 5 Ar_Reef	0.00
Pore 6 Ar_Reef	0.02
Pore 7 Ar_Reef	0.07
Pore 8 Ar_Reef	0.1
Pore 9 Ar_Reef	0.00
Pore 10 Ar_Reef	0.03

<b>Sampel Pore C_Reef</b>	<b>Konsentrasi</b>
Pore 1 C_Reef	0.03
Pore 2 C_Reef	0.03
Pore 3 C_Reef	0.00
Pore 4 C_Reef	0.00
Pore 5 C_Reef	0.03
Pore 6 C_Reef	0.05
Pore 7 C_Reef	0.04
Pore 8 C_Reef	0.00
Pore 9 C_Reef	0.03
Pore 10 C_Reef	0.09

**485 P React. Amino**

<b>Sampel Pore Ar_Reef</b>	<b>Konsentrasi</b>
Pore 1 Ar_Reef	2.6
Pore 2 Ar_Reef	2.6
Pore 3 Ar_Reef	1.4
Pore 4 Ar_Reef	1.9
Pore 5 Ar_Reef	3.8
Pore 6 Ar_Reef	1.5
Pore 7 Ar_Reef	2.4
Pore 8 Ar_Reef	5.0
Pore 9 Ar_Reef	6.9
Pore 10 Ar_Reef	0.9

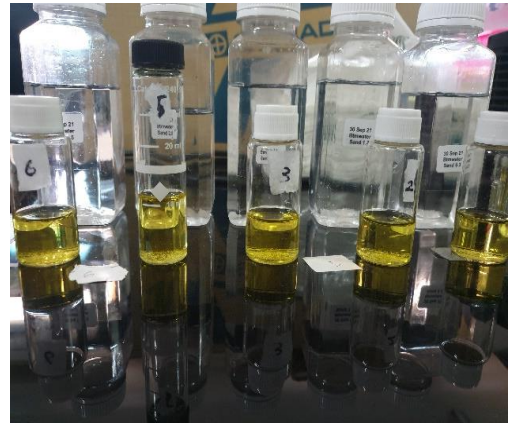
<b>Sampel Pore C_Reef</b>	<b>Konsentrasi</b>
Pore 1 C_Reef	0.8
Pore 2 C_Reef	1.0
Pore 3 C_Reef	2.5
Pore 4 C_Reef	1.0
Pore 5 C_Reef	1.2
Pore 6 C_Reef	1.0
Pore 7 C_Reef	0.9
Pore 8 C_Reef	0.9
Pore 9 C_Reef	0.9
Pore 10 C_Reef	1.5



## Lampiran 2. Dokumentasi Penelitian



Pengukuran Konsentrasi Fosfat



Pengukuran Konsentrasi Nitrit



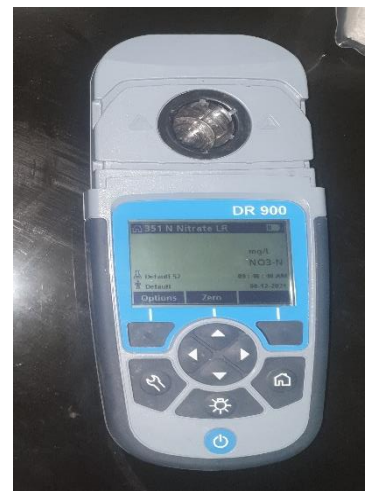
Pengukuran Konsentrasi Nitrat



Pengukuran Konsentrasi Amonia



Reagen Molibdat &amp; Asam Amino



Colorimetri Portable DR 900



Proses Pengukuran Konsentrasi Nutrien



Proses Pengukuran Konsentrasi Nutrien



Proses Pengukuran Konsentrasi Nutrien



Hasil Pengukuran Konsentrasi Parameter Amonia



Hasil Pengukuran Konsentrasi Parameter Fosfat



Reagen Amonia Salisilat



Lokasi Pengambilan Sampel di Pantai Timur Pulau Bali



Lokasi Pengambilan Sampel di Pantai Timur Pulau Bali



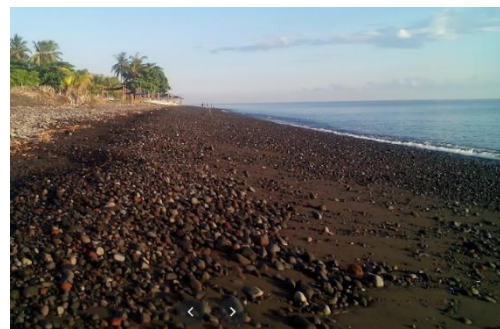
Lokasi Pengambilan Sampel di Pantai Timur Pulau Bali



Terumbu Karang Buatan  
(Artificial Reef)



Lingkungan Pesisir Pengambilan Sampel



Lingkungan Pesisir Pengambilan Sampel