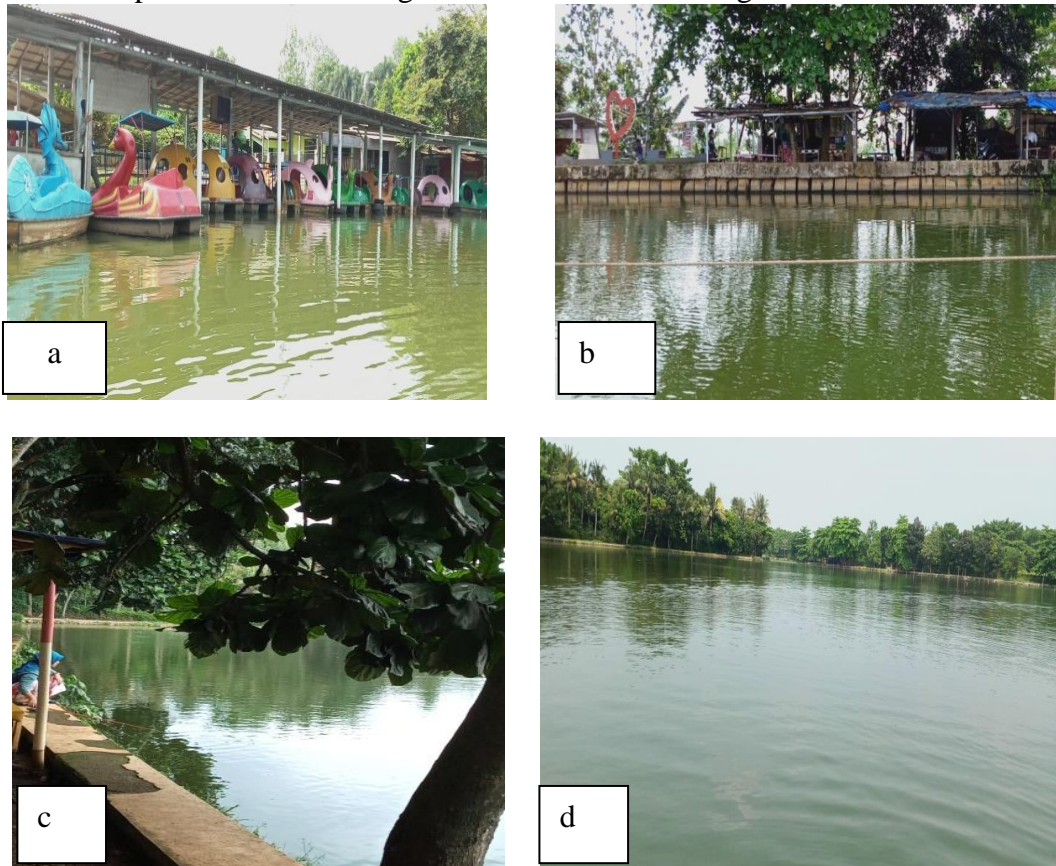


## LAMPIRAN

### Lampiran 1. Stasiun Pengamatan Perairan Situ Pengasinan



Gambar 1. Lokasi Penelitian (a) stasiun 1 (b) stasiun 2 (c) stasiun 3 (d) stasiun 4

## Lampiran 2. Alat Penelitian



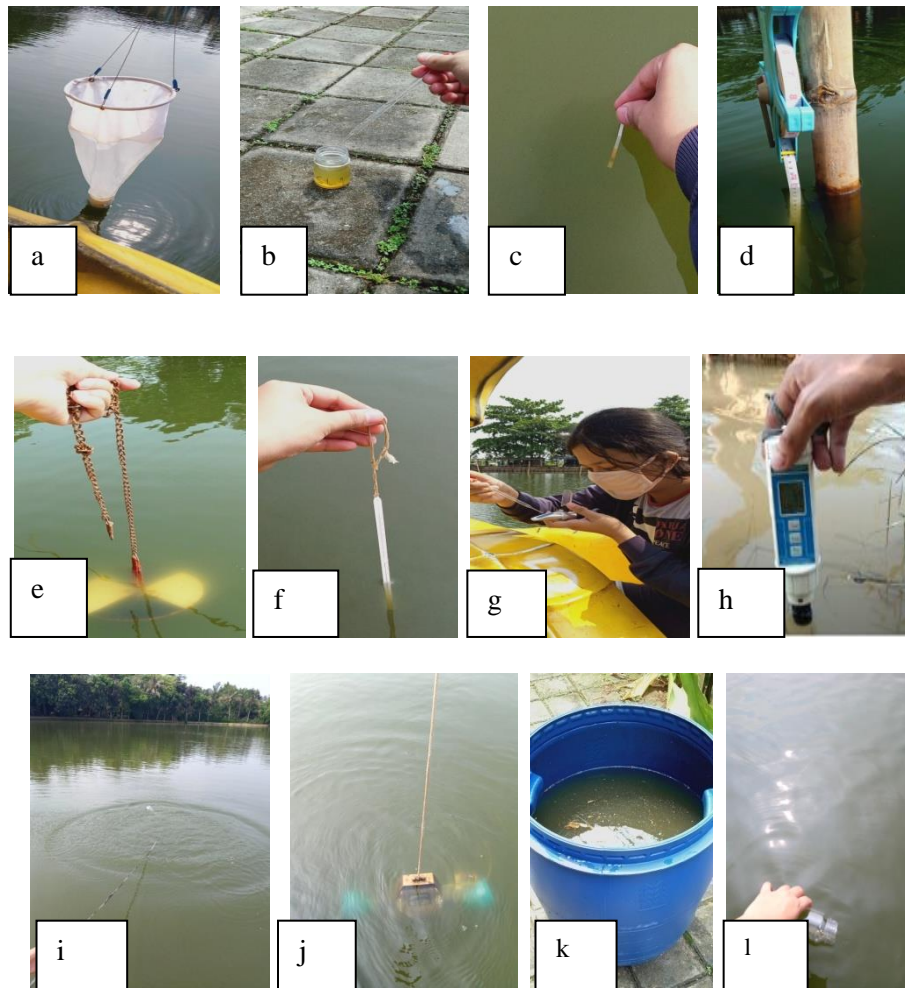
Gambar 2. Alat Penelitian (a) *Secchi disk* (b) *plankton net* (c) Alat ukur arus (d) rollmeter (e) tongkat penduga (f) refraktometer (g) thermometer (h) kontainer (i) botol sampel (j) botol sampel 30 mL (k) ember 50 L (l) pH meter (m) DO Meter (n) mikroskop binokuler (o) label dan alat tulis.

## Lampiran 3. Bahan Penelitian



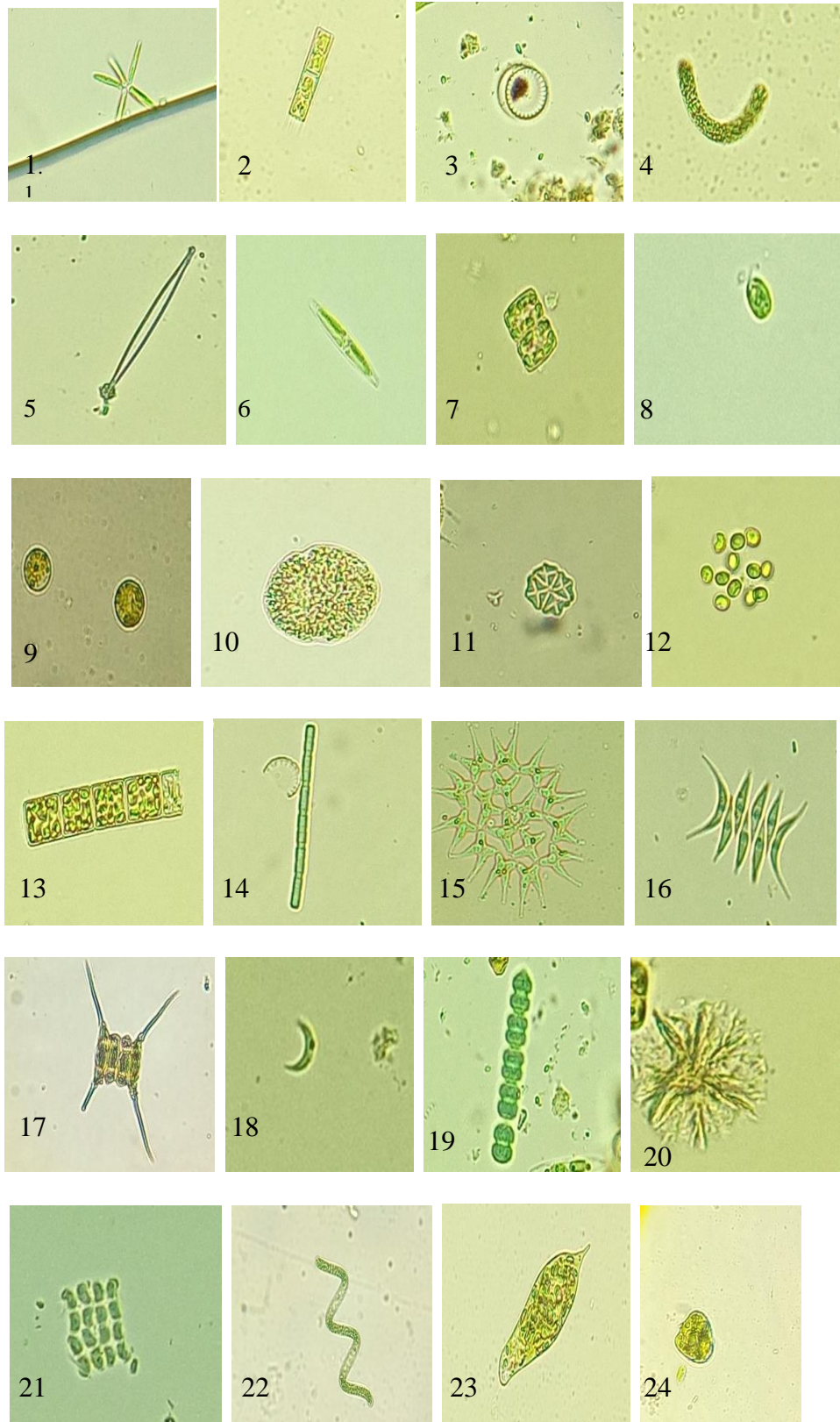
Formalin 4%

## Lampiran 4. Pengambilan Sampel dan Pengukuran Faktor Lingkungan



Gambar 4. Pengambilan Sampel dan Pengukuran Faktor Lingkungan (a) Pengambilan Sampel (b) Pemberian Formalin (c) Pengukuran pH (d) Pengukuran Kedalaman (e) Pengukuran kecerahan (f) Pengukuran Suhu (g) Pengukuran Salinitas (h) Pengukuran DO (i) Pengukuran Arus (j) Pengambilan Air (k) Total air 50 L (l) Pengambilan  $\text{NO}_2$  dan  $\text{PO}_4$

Lampiran 5. Hasil Identifikasi Plankton Perbesaran 100 x



## Lanjutan Lampiran 5



Gambar 5. Hasil Identifikasi Plankton Perbesaran 100 x (1) *Asterionella* sp (2) *Aulacoseira granulata* (3) *Cyclotella* sp (4) *Guinardia* sp. (5) *Navicula* sp. (6) *Synedra* sp. (7) (*Thalassiosira punctigera* (8) *Chlamydomonas* sp (9) *Chlorococcum* sp. (10) *Cosmarium scabrum* (11) *Crucigenia tetrapedia* (12) *Gonium* sp (13) *Hyalotheca mucosa* (14) *Hyalotheca undulata* (15) *Pediastrum* sp. (16) *Scenedesmus dimorphus* (17) *Scenedesmus ellipsoideus* (18) *Selenastrum* sp (19) *Anabaena* sp. (20) *Gloeotrichia* sp. (21) *Merismopedia* sp. (22) *Spirulina* sp. (23) *Euglena* sp (24) *Phacus* sp. (25) *Prorocentrum gracile* (26) *Prorocentrum lima* (27) *Stentor* sp. (28) *Tetrahymena* sp. (29) *Brachionus calyciflorus*

Lampiran 6. Data Mentah Hasil Identifikasi Plankton yang di temukan pada perairan Situ Pengasinan

JENIS	STASIUN 1			STASIUN 2			STASIUN 3			STASIUN 4			TOTAL
	0 m	3 m	5 m	0 m	3 m	5 m	0 m	3 m	5 m	0 m	3 m	5 m	
<i>Aulacoseira granulata</i>	1	2	1	1	3	1	2	3	2	0	1	1	18
<i>Asterionella</i> sp	1	0	0	1	0	0	2	0	0	1	0	0	5
<i>Cyclotella</i> sp	2	21	25	6	12	12	1	16	9	21	8	8	141
<i>Guinaritia</i> sp	1	0	0	0	0	1	0	0	0	0	0	0	2
<i>Navicula</i> sp	2	0	2	1	1	1	3	0	2	1	0	1	14
<i>Synedra</i> sp	9	4	0	1	1	2	9	1	6	3	1	0	37
<i>Thalassioira punctigera</i>	3	5	7	3	9	7	8	6	5	3	3	1	60
<i>Cosmarium scabrum</i>	1	1	0	1	0	0	1	0	1	1	1	1	8
<i>Hyalotheca mucosa</i>	3	1	1	1	1	1	2	0	0	0	3	1	14
<i>Chlamydomonas</i> sp	0	4	1	1	0	0	0	0	0	0	0	0	6
<i>Chlorococcum</i> sp	18	22	15	12	11	13	26	9	10	11	6	6	159
<i>Crucigenia tetrapedia</i>	1	0	0	1	0	0	0	0	0	0	0	0	2
<i>Hyalotheca undulata</i>	0	0	0	0	1	0	0	0	0	0	1	0	2
<i>Gonium</i> sp	0	5	1	2	1	0	6	3	0	0	0	2	20
<i>Scenedesmus dimorphus</i>	5	2	2	7	1	0	4	0	1	4	1	1	28
<i>Scenedesmus ellipsoides</i>	6	1	0	6	1	3	2	0	3	2	4	3	31
<i>Pediastrum</i> sp	0	1	3	0	2	1	0	0	4	1	4	3	19
<i>Selenastrum</i> sp	2	1	0	2	1	1	0	0	1	1	0	2	11
<i>Gloeo-trichia</i> sp	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>Merismoplecta</i> sp	5	1	1	6	3	2	3	4	1	2	1	0	29
<i>Anabaena</i> sp	1	0	1	0	0	0	1	2	0	0	0	0	5
<i>spirulina</i> sp	1	1	1	1	0	0	0	1	1	1	1	1	9
<i>Euglena</i> sp	1	1	0	0	1	0	1	3	1	0	1	0	9
<i>Phacus</i> sp	2	1	2	1	1	1	0	1	2	3	0	2	16
<i>Proocentrum gracile</i>	1	0	0	1	0	0	1	2	0	1	1	0	7
<i>Prorocentrum lima</i>	0	0	0	0	1	1	0	0	1	0	1	0	4
<i>Stentor</i> sp	0	2	1	0	0	0	0	0	0	1	2	1	6
<i>Tetrahymena</i> sp	0	1	0	0	1	1	0	0	0	0	0	1	4
<i>Brachionus calyciflorus</i>	0	0	1	0	0	1	0	2	0	2	1	0	7
<b>Total Jenis</b>	<b>21</b>	<b>19</b>	<b>16</b>	<b>20</b>	<b>18</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>13</b>	<b>16</b>	<b>18</b>	<b>17</b>	<b>17</b>

Lampiran 7. Hasil Pengukuran Faktor Lingkungan pada perairan Situ Pengasinan

No	Parameter Fisik Kimia	Kedalaman	Stasiun			
			1	2	3	4
1	Suhu (°C)	0 m	29	29	30	31
		3 m	28	30	30	30
		5 m	29	29	29	30
	Rata-rata		28,6	29,3	29,6	30,3
2	Kekeruhan (NTU)	0 m	21,3	25,5	21,4	22,8
		3 m	30,6	39	44,3	34,7
		5 m	49,7	43,6	56,5	55,5
	Rata-rata		33,8	36	40,7	37,6
3	Kedalaman (m)	0 m	5	5,2	6	7
		3 m	5	5,2	6	7
		5 m	5	5,2	6	7
	Rata-rata		5	5,2	6	7
4	Salinitas (ppt)	0 m	0,1	0,1	0,1	0,1
		3 m	0,1	0,1	0,1	0,1
		5 m	0,1	0,1	0,1	0,1
	Rata-rata		0,1	0,1	0,1	0,1
5	Kecerahan (cm)	0 m	41	45,5	33	36
		3 m	41	45,5	33	36
		5 m	41	45,5	33	36
	Rata-rata		41	45,5	33	36
6	Arus (m/s)	0 m	0,02	0,032	0,037	0,027
		3 m	0,02	0,032	0,037	0,027
		5 m	0,02	0,032	0,037	0,027
	Rata-rata		0,02	0,032	0,037	0,027
7	Derajat Keasaman (pH)	0 m	7	6	6	7
		3 m	7	7	6	6
		5 m	6	6	6	6
	Rata-rata		6,6	6,3	6	6,3
8	Oksigen Terlarut (mg/L)	0 m	6,3	6,4	6,9	6,9
		3 m	6,2	6,4	7,2	6,9
		5 m	6,5	6,3	6,6	6,7
	Rata-rata		6,3	6,36	6,9	6,83
9		0 m	1,24	1,27	1,24	1,26



	NO <sub>2</sub>	3 m	1,24	1,27	1,24	1,26
	(mg/L)	5 m	1,24	1,27	1,24	1,26
	Rata-rata		1,24	1,27	1,24	1,26
10	PO <sub>4</sub> (mg/L)	0 m	0,2	0,2	0,24	0,25
		3 m	0,2	0,2	0,24	0,25
		5 m	0,2	0,2	0,24	0,25
		Rata-rata	0,2	0,2	0,24	0,25

Lampiran 8. Hasil Analisa *Chi-Square* Berdasarkan Jumlah Jenis Plankton

## Chi-Square Test

### Frequencies

	Observed N	Expected N	Residual
25.00	25	26.0	-1.0
26.00	26	26.0	.0
27.00	27	26.0	1.0
Total	78		

	Jumlah_jenis
Chi-Square	.077 <sup>a</sup>
df	2
Asymp. Sig.	.962

a. 0 cells (.0%) have expected frequencies less than 5. The minimum expected cell frequency is 26,0.

Lampiran 9. Hasil Analisa Uji Korelasi Keanekaragaman plankton dengan Faktor Lingkungan

## Correlations

		Suhu	Kecerahan	Kekeruhan	Kedalaman	Salinitas	Arus	pH	Oksigen_terlarut	Nitrit	Fosfat	Keanekaragaman
Suhu	Correlation Coefficient	1.000	-.419	-.083	.792**	.	.303	.000	.796**	.233	.736**	-.075
	Sig. (2-tailed)	.	.175	.798	.002	.	.339	1.000	.002	.466	.006	.816
	N	12	12	12	12	12	12	12	12	12	12	12
Kecerahan	Correlation Coefficient	-.419	1.000	-.173	-.600*	.	-.400	.316	-.775**	.632*	-.738**	.151
	Sig. (2-tailed)	.175	.	.591	.039	.	.198	.317	.003	.027	.006	.639
	N	12	12	12	12	12	12	12	12	12	12	12
Kekeruhan	Correlation Coefficient	-.083	-.173	1.000	.173	.	.216	-.512	.141	-.011	.148	-.161
	Sig. (2-tailed)	.798	.591	.	.591	.	.500	.089	.661	.972	.646	.618
	N	12	12	12	12	12	12	12	12	12	12	12
Kedalaman	Correlation Coefficient	.792**	-.600*	.173	1.000	.	.400	-.316	.796**	.211	.949**	.151
	Sig. (2-tailed)	.002	.039	.591	.	.	.198	.317	.002	.511	.000	.639
	N	12	12	12	12	12	12	12	12	12	12	12
Salinitas	Correlation Coefficient	.	.	.	.	1.000	.	.	.	.	.	.
	Sig. (2-tailed)	.	.	.	.	.	.	.	.	.	.	.
	N	12	12	12	12	12	12	12	12	12	12	12
Arus	Correlation Coefficient	.303	-.400	.216	.400	.	1.000	-.474	.458	.105	.211	.086
	Sig. (2-tailed)	.339	.198	.500	.198	.	.	.119	.134	.744	.511	.790
	N	12	12	12	12	12	12	12	12	12	12	12
pH	Correlation Coefficient	.000	.316	-.512	-.316	.	-.474	1.000	-.414	.000	-.250	-.102
	Sig. (2-tailed)	1.000	.317	.089	.317	.	.119	.	.181	1.000	.433	.751
	N	12	12	12	12	12	12	12	12	12	12	12
Oksigen_terlarut	Correlation Coefficient	.796**	-.775**	.141	.796**	.	.458	-.414	1.000	-.167	.817**	-.141
	Sig. (2-tailed)	.002	.003	.661	.002	.	.134	.181	.	.604	.001	.661
	N	12	12	12	12	12	12	12	12	12	12	12
Nitrit	Correlation Coefficient	.233	.632*	-.011	.211	.	.105	.000	-.167	1.000	-.056	.341
	Sig. (2-tailed)	.466	.027	.972	.511	.	.744	1.000	.604	.	.864	.277
	N	12	12	12	12	12	12	12	12	12	12	12
Fosfat	Correlation Coefficient	.736**	-.738**	.148	.949**	.	.211	-.250	.817**	-.056	1.000	.057
	Sig. (2-tailed)	.006	.006	.646	.000	.	.511	.433	.001	.864	.	.861
	N	12	12	12	12	12	12	12	12	12	12	12
Keanekaragaman	Correlation Coefficient	-.075	.151	-.161	.151	.	.086	-.102	-.141	.341	.057	1.000
	Sig. (2-tailed)	.816	.639	.618	.639	.	.790	.751	.661	.277	.861	.
	N	12	12	12	12	12	12	12	12	12	12	12

Lampiran 10. Hasil Analisa Uji Korelasi Kelimpahan *Chlorococcum* sp. dengan Faktor Lingkungan



	N	12	12	12	12	12	12	12	12	12	12	12
pH	Correlation Coefficient	.000	-.512	.442	.	.316	-.424	-.414	1.000	.000	-.250	.308
	Sig. (2-tailed)	1.000	.089	.150	.	.317	.170	.181	.	1.000	.433	.330
	N	12	12	12	12	12	12	12	12	12	12	12
Nitrit	Correlation Coefficient	.233	-.011	.116	.	.632*	.071	-.167	.000	1.000	-.056	-.320
	Sig. (2-tailed)	.466	.972	.720	.	.027	.827	.604	1.000	.	.864	.311
	N	12	12	12	12	12	12	12	12	12	12	12
Fospat	Correlation Coefficient	.736**	.148	.382	.	-.738**	.300	.817**	-.250	-.056	1.000	-.645*
	Sig. (2-tailed)	.006	.646	.221	.	.006	.343	.001	.433	.864	.	.023
	N	12	12	12	12	12	12	12	12	12	12	12
Kelimpahan Chlorococcum sp.	Correlation Coefficient	-.503	-.565	-.307	.	.282	-.298	-.530	.308	-.320	-.645*	1.000
	Sig. (2-tailed)	.095	.056	.332	.	.375	.347	.076	.330	.311	.023	.
	N	12	12	12	12	12	12	12	12	12	12	12

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).



Nitrit	Correlation	.233	-.011	.116	.	.632*	.071	-.167	.000	1.00	-.056	-.086
	Coefficient									0		
	Sig. (2-tailed)	.466	.972	.720	.	.027	.827	.604	1.000	.	.864	.791
	N	12	12	12	12	12	12	12	12	12	12	12
Fospat	Correlation	.736**	.148	.382	.	-.738**	.300	.817**	-.250	-.056	1.000	-.120
	Coefficient											
	Sig. (2-tailed)	.006	.646	.221	.	.006	.343	.001	.433	.864	.	.710
	N	12	12	12	12	12	12	12	12	12	12	12
Kelimpahan Cyclotella sp.	Correlation	-.076	.387	.271	.	.119	-.322	-.053	.232	-.086	-.120	1.000
	Coefficient											
	Sig. (2-tailed)	.815	.214	.393	.	.712	.307	.869	.469	.791	.710	.
	N	12	12	12	12	12	12	12	12	12	12	12

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).






Oksigen _terlarut	Correlation Coefficient	.796**	.141	.142	.	-.775**	.550	1.000	-.414	-.167	.817*	-.085
	Sig. (2- tailed)	.002	.661	.660	.	.003	.064	.	.181	.604	.001	.793
	N	12	12	12	12	12	12	12	12	12	12	12
pH	Correlation Coefficient	.000	-.512	.442	.	.316	-.424	-.414	1.000	.000	-.250	-.026
	Sig. (2- tailed)	1.000	.089	.150	.	.317	.170	.181	.	1.000	.433	.936
	N	12	12	12	12	12	12	12	12	12	12	12
Nitrit	Correlation Coefficient	.233	-.011	.116	.	.632*	.071	-.167	.000	1.000	-.056	-.081
	Sig. (2- tailed)	.466	.972	.720	.	.027	.827	.604	1.000	.	.864	.801
	N	12	12	12	12	12	12	12	12	12	12	12
Fospat	Correlation Coefficient	.736**	.148	.382	.	-.738**	.300	.817**	-.250	-.056	1.00	-.459
	Sig. (2- tailed)	.006	.646	.221	.	.006	.343	.001	.433	.864	.	.133
	N	12	12	12	12	12	12	12	12	12	12	12
Kelimpa han Thalass iosira punctig era	Correlation Coefficient	-.069	.089	.054	.	.110	.299	-.085	-.026	-.081	-.459	1.000
	Sig. (2- tailed)	.830	.783	.867	.	.733	.344	.793	.936	.801	.133	.
	N	12	12	12	12	12	12	12	12	12	12	12

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).

Lampiran 12. Hasil Analisis Kualitas air (Nitrit dan Fosfat) Setiap Stasiun Penelitian Situ Pengasinan di Balai Besar Ikan Hias Depok

	Balai Riset Budidaya Ikan Hias	No Dokumen : F 7.8 (4) I.XX
	LAPORAN HASIL ANALISIS	Edisi/Revisi : 1/00
		Tgl. Terbit : 01.09.2019
		Halaman : 1 of 1

LAPORAN HASIL ANALISIS (L  
H A)

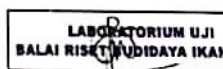
0001/LHA-BRBIH/LHA-E/01/2021

Nama : Astrika Purba  
 Jenis sampel : Air  
 Tanggal sampel masuk : 26 Januari 2021

Parameter/ Parameter	Satuan / Unit	Hasil Analisis / Result				Metode Pengujian / Analysis Methode
		Kode Contoh / Sample Code				
		ST 1	ST 2	ST 3	ST 4	
Nitrit	mg/L	1.24	1.27	1.24	1.26	SNI 06-6989.9-2004
Fosfat	mg/L	0.20	0.20	0.24	0.25	-

\*Not Detected/Tidak Terdeteksi

Depok, 09/02/2021



Tutik Kadarini, M.Si  
 Penanggung Jawab Laboratorium

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