

LAMPIRAN

Lampiran 1. Alat dan bahan yang digunakan dalam penelitian.

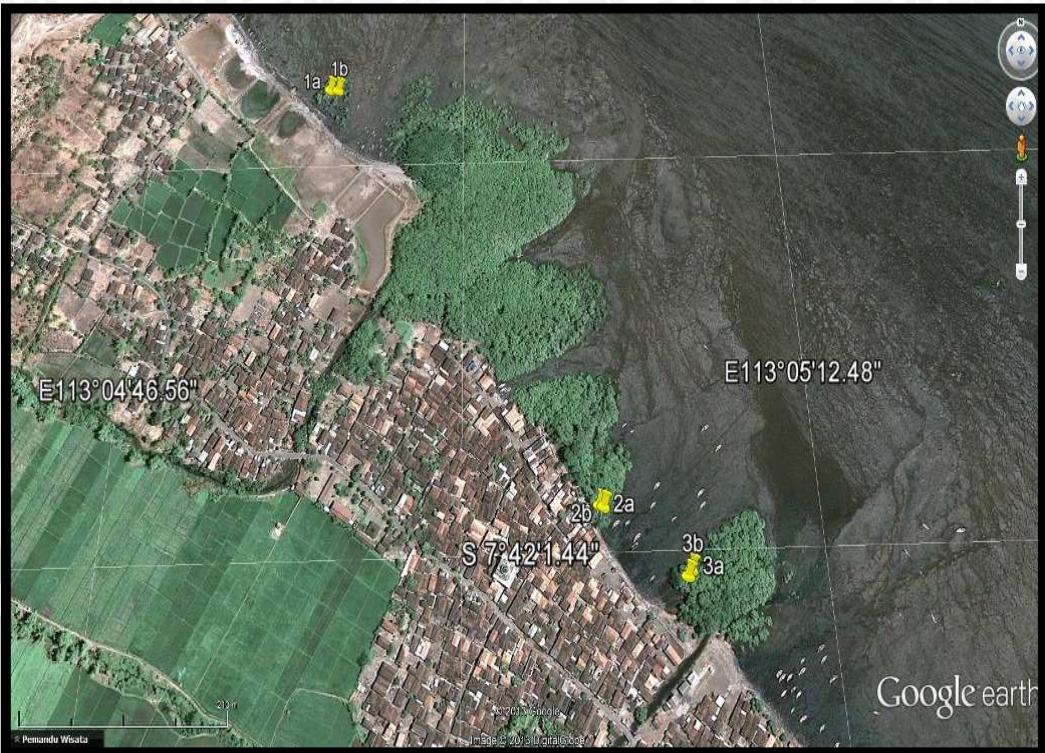
NO	Parameter	Alat	Bahan
1.	Suhu	Termometer Hg	Air Sampel
2.	Tekstur	<ul style="list-style-type: none"> - Paralon - Kantong plastik - Kertas label - Hidrometer - Cawan petris - Penyaring Berkerfield - Timbangan 	<ul style="list-style-type: none"> - Sedimen - Air - HCL 2N - Peptisator Na4P2O7 4% - H2O2
3.	DO	DOmeter	Air sampel
4.	Salinitas	Salinometer	Air sampel
5.	pH air	pH meter	Air sampel
6.	Total N	<ul style="list-style-type: none"> - Cetok - Timbangan analitik - Erlenmeyer - Kertas saring - Oven - Pinggan aluminium - Penjepit - Spektofotometer 	<ul style="list-style-type: none"> - Sedimen - Larutan KCl 2M - Larutan KNO_3 - Air destilasi - Larutan HCl 1M
7.	Total P	<ul style="list-style-type: none"> - Cetok - Botol polyethylene - Tabung reaksi - Pipet tetes - Spektrofotometer 	<ul style="list-style-type: none"> - Sedimen - Perekasi Olsen - Larutan Standar 10 ppm - pereaksi fosfat pekat - pereaksi campuran fosfat - asam ascorbic - ammonium molybdat - karbon aktif - stok SnCl_2
8.	Akumulasi Pb pada akar dan batang	<ul style="list-style-type: none"> - Oven - Furnace (tanur) - Timbangan analitik - Wadah sampel - Labu takar - Gelas beaker - Cawan porselein - Hot plate - Kertas saring - Erlenmeyer - Sprektofotometer serapan atom (AAS) 	<ul style="list-style-type: none"> - Larutan HNO_3 65% - Larutan HClO_4 - Larutan HCl - Aquadest - Sampel air laut - Sampel sedimen - Sampel akar dan batang <i>Sonneratia caseolaris</i>

Lampiran 2. Peta Lokasi Penelitian Stasiun Wonorejo



- Stasiun 1a : $7^{\circ}18'27.37''$ LS $112^{\circ}49'38.35''$ BT
- Stasiun 1b : $7^{\circ}18'27.40''$ LS $112^{\circ}49'38.41''$ BT
- Stasiun 2a : $7^{\circ}18'31.60''$ LS $112^{\circ}49'57.67''$ BT
- Stasiun 2b : $7^{\circ}18'31.64''$ LS $112^{\circ}49'57.88''$ BT
- Stasiun 3a : $7^{\circ}18'37.25''$ LS $112^{\circ}50'17.01''$ BT
- Stasiun 3b : $7^{\circ}18'37.23''$ LS $112^{\circ}50'16.92''$ BT

(Googleearth, 2013)

Lampiran 3. Peta Lokasi Penelitian Stasiun Kedawang

- Stasiun 1a : $7^{\circ}41'45.95''$ LS $113^{\circ}04'54.04''$ BT
- Stasiun 1b : $7^{\circ}41'45.61''$ LS $113^{\circ}04'54.41''$ BT
- Stasiun 2a : $7^{\circ}42'00.52''$ LS $113^{\circ}05'04.43''$ BT
- Stasiun 2b : $7^{\circ}42'00.42''$ LS $113^{\circ}05'04.54''$ BT
- Stasiun 3a : $7^{\circ}42'02.48''$ LS $113^{\circ}05'07.00''$ BT
- Stasiun 3b : $7^{\circ}42'02.17''$ LS $113^{\circ}05'07.13''$ BT

(Googleearth, 2013)



Lampiran 4. Data kandungan Pb di Air, Sedimen, Akar dan Batang.

No	Lokasi	Stasiun	Kadar Pb(ppm)		
			Sedimen	Akar	Batang
1	Wonorejo	1a	5,51	2,39	0,98
		1b	5,51	3,5	0,67
		2a	3,85	5,21	0,88
		2b	8,48	3,06	0,49
		3a	13,14	5,44	1,10
		3b	10,23	4,1	0,67
2	Kedawang	1a	2,94	2,69	0,63
		1b	2,30	4,94	1,44
		2a	2,19	3,19	0,75
		2b	3,28	3,82	0,50
		3a	5,44	2,25	0,50
		3b	3,57	1,87	0,38

Sumber: Wilujeng (2013in-proses)

Lampiran 5. Perhitungan BCF, TF, FTD

Jenis	Wonorejo						Kedawang					
	1a	1b	2a	2b	3a	3b	1a	1b	2a	2b	3a	3b
BCF	0,43	0,64	1,35	0,36	0,41	0,40	0,91	2,1	1,45	1,16	0,41	0,52
TF	0,41	0,19	0,17	0,16	0,2	0,16	0,23	0,29	0,23	0,13	0,22	0,2
FTD	0,02	0,45	1,18	0,2	0,21	0,24	0,68	1,81	1,22	1,03	0,19	0,32

Sumber: Wilujeng (2013in-proses)

Wonorejo:

$$BCF = \frac{Kadar Pb Akar}{Kadar Pb Sedimen}$$

$$1a = \frac{2,39}{5,51} = 0,43$$

$$1b = \frac{3,5}{5,51} = 0,64$$

$$2a = \frac{5,21}{3,85} = 1,35$$

$$2b = \frac{3,06}{8,48} = 0,36$$

$$3a = \frac{5,44}{13,14} = 0,41$$

$$3b = \frac{4,1}{10,23} = 0,40$$

$$TF = \frac{Kadar Pb Batang}{Kadar Pb Akar}$$

$$1a = \frac{0,98}{2,39} = 0,41$$

$$1b = \frac{0,67}{3,5} = 0,19$$

$$2a = \frac{0,88}{5,21} = 0,17$$

$$2b = \frac{0,49}{3,06} = 0,16$$

$$3a = \frac{1,1}{5,44} = 0,2$$

$$3b = \frac{0,67}{4,1} = 0,16$$

$$FTD = BCF - TF$$

$$1a = 0,43 - 0,41 = 0,02$$

$$1b = 0,64 - 0,19 = 0,45$$

$$2a = 1,35 - 0,17 = 1,18$$

$$2b = 0,36 - 0,16 = 0,2$$

$$3a = 0,41 - 0,2 = 0,21$$

$$3b = 0,40 - 0,16 = 0,24$$

Kedawang:

$$BCF = \frac{Kadar Pb Akar}{Kadar Pb Sedimen}$$

$$1a = \frac{2,69}{2,94} = 1,91$$

$$1b = \frac{4,94}{2,30} = 2,1$$

$$2a = \frac{3,19}{2,19} = 1,45$$

$$2b = \frac{3,82}{3,28} = 1,16$$

$$3a = \frac{2,25}{5,44} = 0,41$$

$$3b = \frac{1,87}{3,57} = 0,52$$

$$TF = \frac{Kadar Pb Batang}{Kadar Pb Akar}$$

$$1a = \frac{0,63}{2,69} = 0,23$$

$$1b = \frac{1,44}{4,94} = 0,29$$

$$2a = \frac{0,75}{3,19} = 0,23$$

$$2b = \frac{0,5}{3,82} = 0,13$$

$$3a = \frac{0,5}{2,25} = 0,22$$

$$3b = \frac{0,38}{1,87} = 0,2$$

$$FTD = BCF - TF$$

$$1a = 0,91 - 0,23 = 0,68$$

$$1b = 2,1 - 0,29 = 1,81$$

$$2a = 1,45 - 0,23 = 1,22$$

$$2b = 1,16 - 0,13 = 1,03$$

$$3a = 0,41 - 0,22 = 0,19$$

$$3b = 0,52 - 0,2 = 0,32$$

Lampiran 6. Perhitungan Uji T

- Hipotesis
 - $H_0 : \text{Wonorejo} \leq \text{Kedawang}$ (Kandungan Pb di kawasan mangrove Wonorejo dan Kedawang adalah sama atau lebih sedikit)
 - $H_1 : \text{Wonorejo} > \text{Kedawang}$ (Kandungan Pb di kawasan mangrove Wonorejo lebih banyak dari Kedawang adalah sama atau lebih sedikit)
- Kriteria penerimaan hipotesis
 - H_0 diterima jika $t_{\text{hitung}} \leq t_{\text{tabel}}$
 - H_1 diterima jika $t_{\text{hitung}} > t_{\text{table}}$

a. Hasil Uji T pada Air

	Wonorejo	Kedawang
Mean	0.1007	0.142
Variance	0.000212333	0.000547
Observations	3	3
Pooled Variance	0.000379667	
Hypothesized Mean Difference	0	
df	4	
t Stat	-2.59803397	
P($T \leq t$) one-tail	0.030086261	
t Critical one-tail	2.131846782	
P($T \leq t$) two-tail	0.060172522	
t Critical two-tail	2.776445105	

b. Hasil Uji T pada Sedimen

	Wonorejo	Kedawang
Mean	7.783	3.287
Variance	12.21274667	1.402707
Observations	6	6
Pooled Variance	6.807726667	
Hypothesized Mean Difference	0	
df	10	
t Stat	2.98504077	
P($T \leq t$) one-tail	0.006844606	
t Critical one-tail	1.812461102	
P($T \leq t$) two-tail	0.013689211	
t Critical two-tail	2.228138842	

Lampiran 6. Lanjutan

c. Hasil Uji T pada Akar

	<i>Wonorejo</i>	<i>Kedawang</i>
Mean	3.95	3.127
Variance	1.45168	1.262267
Observations	6	6
Pooled Variance	1.356973333	
Hypothesized Mean Difference	0	
df	10	
t Stat	1.812461102	
P(T<=t) one-tail	0.12446841	
t Critical one-tail	1.224195192	
P(T<=t) two-tail	0.24893682	
t Critical two-tail	2.228138842	

d. Hasil Uji T pada Batang

	<i>Wonorejo</i>	<i>Kedawang</i>
Mean	0.835	0.7
Variance	0.04851	0.14748
Observations	6	6
Pooled Variance	0.097995	
Hypothesized Mean Difference	0	
df	10	
t Stat	1.812461102	
P(T<=t) one-tail	0.236144915	
t Critical one-tail	0.746951558	
P(T<=t) two-tail	0.47228983	
t Critical two-tail	2.228138842	