

DAFTAR PUSTAKA

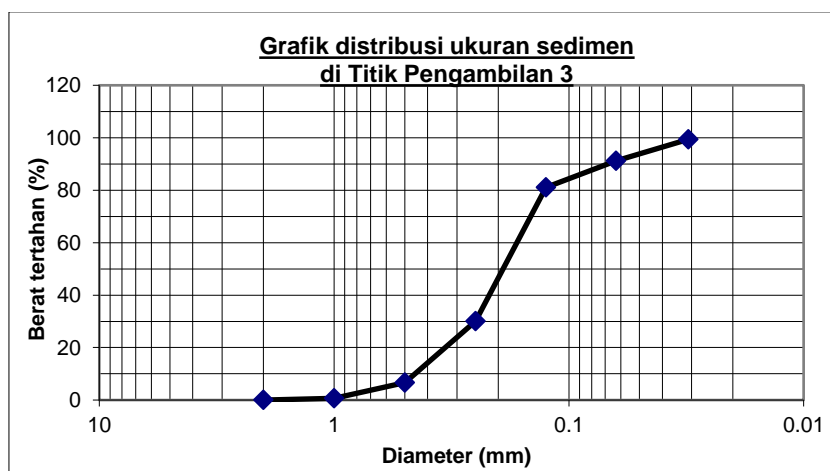
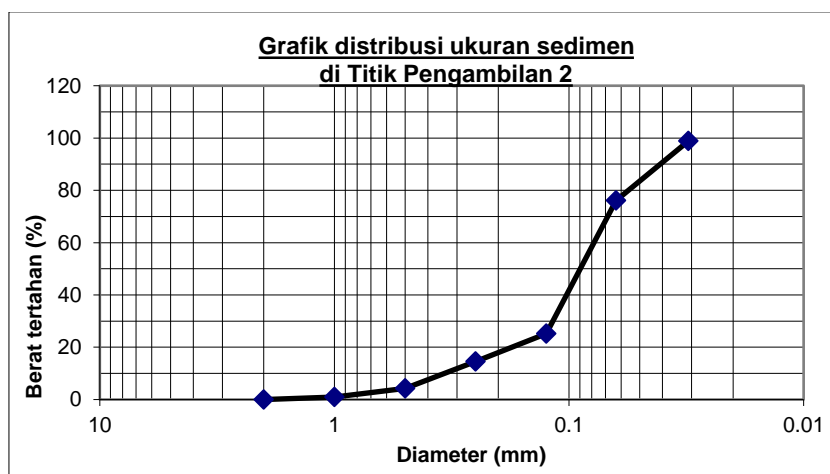
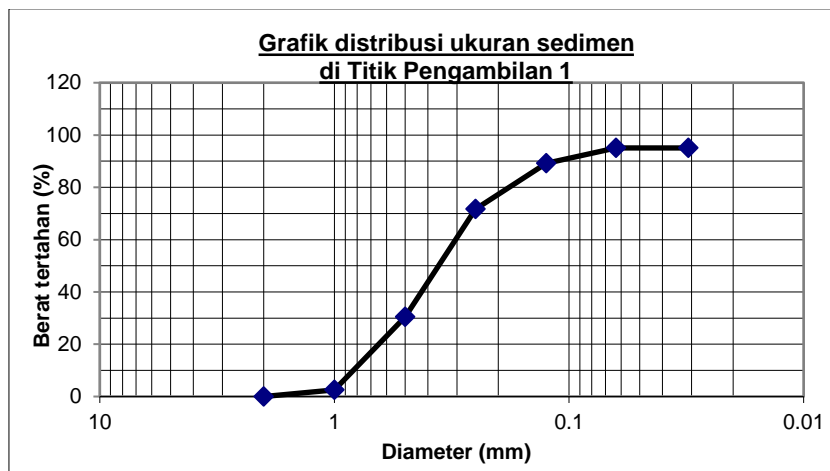
- Abuodha, J. O.Z. 2003. "Grain Size Distribution and Composition of Modern Dune and Beach Sediments, Malindi Bay Coast, Kenya." *Journal of African Earth Sciences* 36 (1–2): 41–54. [https://doi.org/10.1016/S0899-5362\(03\)00016-2](https://doi.org/10.1016/S0899-5362(03)00016-2).
- Andrade, Talia Santos de, Paulo Henrique Gomes de Oliveira Sousa, and Eduardo Siegle. 2019. "Vulnerability to Beach Erosion Based on a Coastal Processes Approach." *Applied Geography* 102 (December 2017): 12–19. <https://doi.org/10.1016/j.apgeog.2018.11.003>.
- Ardang, D.V., N. Soenardjo, & Nur Taufiq. 2023. "Hubungan Tekstur Sedimen Terhadap Vegetasi Mangrove Di Desa Pasar Banggi, Kabupaten Rembang". *Journal of Marine Research*. Vol 12, No. 3, pp. 519-526. <https://doi.org/10.14710/jmr.v12i3.35185>
- Arif, Subhan, Pamela Felita Adibrata, and Nurul Dzakiya. 2020. "Karakteristik Endapan Sedimen: Studi Kasus Pantai Parangkusumo Daerah Istimewa Yogyakarta." *Newton-Maxwell Journal of Physics* 1 (1): 25–31. <https://doi.org/10.33369/nmj.v1i1.14293>.
- Bayhaqi, Ahmad, and Caesar M.A. Dungga. 2015. "Distribusi Butiran Sedimen Di Pantai Dalegan, Gresik, Jawa Timur." *Depik* 4 (3): 153–59. <https://doi.org/10.13170/depik.4.3.3054>.
- Prasetyaningsih, Kuku. 2024. Analisis Dinamika Atmosfer Dasarian. <https://bmkgo.id/>
- BPS Kabupaten Takalar. 2023. Kabupaten Takalar dalam Angka 2023.
- Giardino, et al. (GFDRR, Water Partnership, and L.C. Van Rijn). 2016. "Wavemodel: Tools for a Preliminary Assessment of Coastal Problems and Solutions." *Simple Coast Tutorial*.
- Evans, D. J.A., E. R. Phillips, J. F. Hiemstra, and C. A. Auton. 2006. "Subglacial till: Formation, Sedimentary Characteristics and Classification." *Earth-Science Reviews* 78 (1–2): 115–76. <https://doi.org/10.1016/j.earscirev.2006.04.001>.
- Fajri, F., Rifardi & A. Tanjung. 2012. "Studi Abrasi Pantai Padang Kota Padang Provinsi Sumatra Barat". *Jurnal Perikanan dan Kelautan*. Vol.17, No.2: 36 – 42.
- Gemilang, Wisnu Arya, Ulung Jantama Wisna, and Guntur Adhi Rahmawan. 2017. "Distribusi Sedimen Dasar Sebagai Identifikasi Erosi Pantai Di Kecamatan Brebes Menggunakan Analisis Granulometri." *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology* 10 (1): 54. <https://doi.org/10.21107/jk.v10i1.2156>.
- Hutabarat dan Evans. 1985. "Pengantar Oseanografi". UI Press
- Lahopang, V. R. Aclicyo, dkk. 2023. "Sebaran Ukuran Butir Sedimen di Muara Sungai Sragi Baru-Wonokerto, Kabupaten Pekalongan, Jawa Tengah." *Indonesian Journal of Oceanography (IJOCE)*. 5(1): 18 – 27.
- Lai, Y. G. 2020. Description, Model, Numerical Methods, and The Corp. n.d. "HEC-RAS 2D Sediment Technical Reference Manual," 1–101.

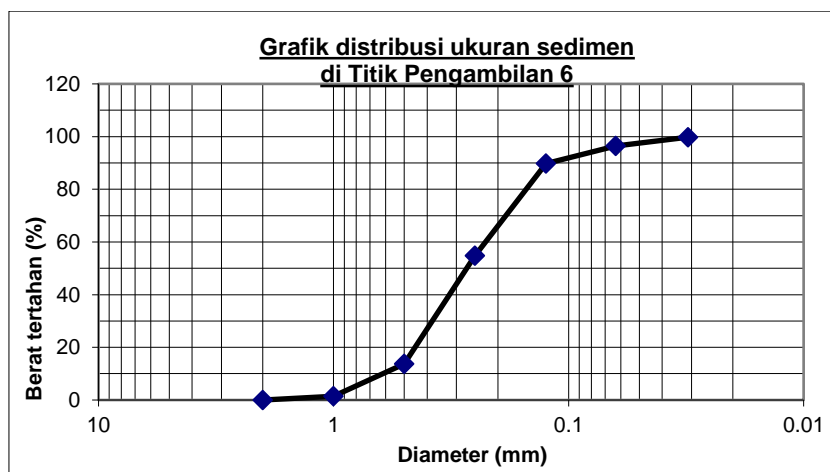
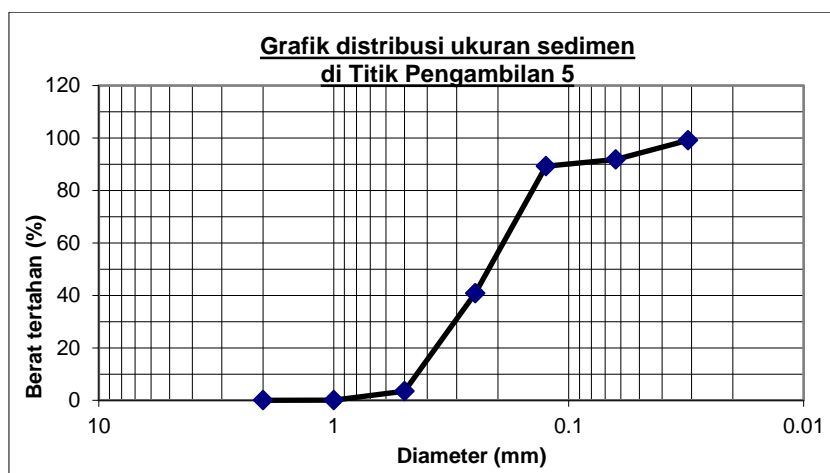
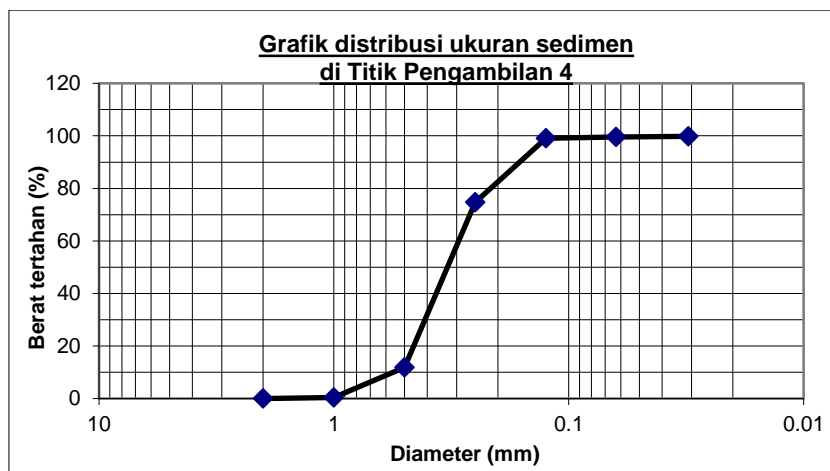
- Matin, Naila, and G. M. Jahid Hasan. 2021. "A Quantitative Analysis of Shoreline Changes along the Coast of Bangladesh Using Remote Sensing and GIS Techniques." *Catena* 201 (September 2020): 105185. <https://doi.org/10.1016/j.catena.2021.105185>.
- Naufalina, N.E., J. Marwoto & B. Rochaddi. 2022. "Analisis Sebaran Sedimen Berdasarkan Ukuran Butir di Perairan Pantai Baron, Kabupaten Gunungkidul, Yogyakarta." *Indonesian Journal of Oceanography*. Vol.4, No.2: 61 – 67. <https://doi.org/10.14710/ijoce.v4i2.13934>.
- Ostrowski, R. 2018. "Influence of Wave Shape on Sediment Transport in Coastal Regions". *Hydro-Engineering and Environmental Mechanics (DE GRUYTER)*. Vol.65, No.2, pp.73 – 90.
- Prihantono, Joko, Irfan Arif Fajrianto, and Yessi Nirwana Kurniadi. 2018. "Pemodelan Hidrodinamika Dan Transpor Sedimen Di Sekitar Tanjung Pontang, Kabupaten Serang – Banten." *Jurnal Kelautan Nasional* 1 (2). <https://doi.org/10.15578/jkn.v1i2.6614>.
- Purba, Ranto Haposan, Mubarak, and Musrifin Galib. 2018. "Sebaran Total Suspended Solid (Tss) Di Kawasan Muara Sungai Kampar Kabupaten Pelalawan Provinsi Riau." *Jurnal Perikanan Dan Kelautan* 23 (1): 21–30.
- Rachman, Reno Arief et al. 2021. "Kajian Karakteristik Sedimen Dasar Di Perairan Sungailiat Untuk Mendukung" *Buletin Oseanografi Marina* 10 (2): 112–22. <https://doi.org/10.14710/buloma.v10i2.31662>.
- Rangel-Buitrago, Nelson, A. T. Williams, and Giorgio Anfuso. 2018. "Hard Protection Structures as a Principal Coastal Erosion Management Strategy along the Caribbean Coast of Colombia. A Chronicle of Pitfalls." *Ocean and Coastal Management* 156: 58–75. <https://doi.org/10.1016/j.ocecoaman.2017.04.006>.
- Rifardi. 2012. *Edisi Revisi Ekologi Sedimen Laut Modern*. Ur Press. pp:31.
- Rijn, L C Van. 1984. "Sediment Transport, Part II: Suspended Load Transport." *Journal of Hydraulic Engineering* 110 (11): 1613--1641.
- Rijn, Leo C. van. 1993. "Principles of Fluid Flow and Surface Waves in Rivers, Estuaries, Seas and Oceans". Netherland: Aqua Publication.
- Rijn, Leo C. van. 1997. "Sediment Transport and Budget of the Central Coastal Zone of Holland." *Coastal Engineering* 32 (1): 61–90. [https://doi.org/10.1016/S0378-3839\(97\)00021-5](https://doi.org/10.1016/S0378-3839(97)00021-5).
- Rijn, Leo C. van. 2007. "Unified View of Sediment Transport by Currents and Waves. III: Graded Beds." *Journal of Hydraulic Engineering* 133 (7): 761–75. [https://doi.org/10.1061/\(asce\)0733-9429\(2007\)133:7\(761\)](https://doi.org/10.1061/(asce)0733-9429(2007)133:7(761)).
- Rijn, Leo C. van. 2009. "Prediction of Dune Erosion Due to Storms." *Coastal Engineering* 56 (4): 441–57. <https://doi.org/10.1016/j.coastaleng.2008.10.006>.
- Rijn, L. C. van. 2011. "Coastal Erosion and Control." *Ocean and Coastal Management* 54 (12): 867–87. <https://doi.org/10.1016/j.ocecoaman.2011.05.004>.

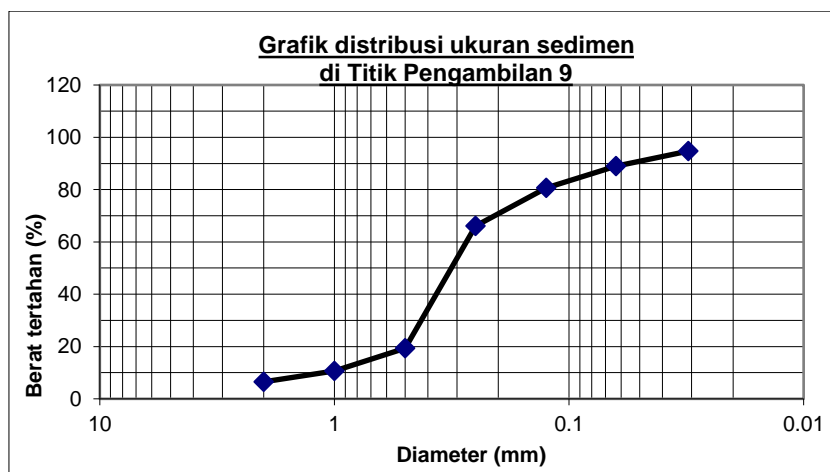
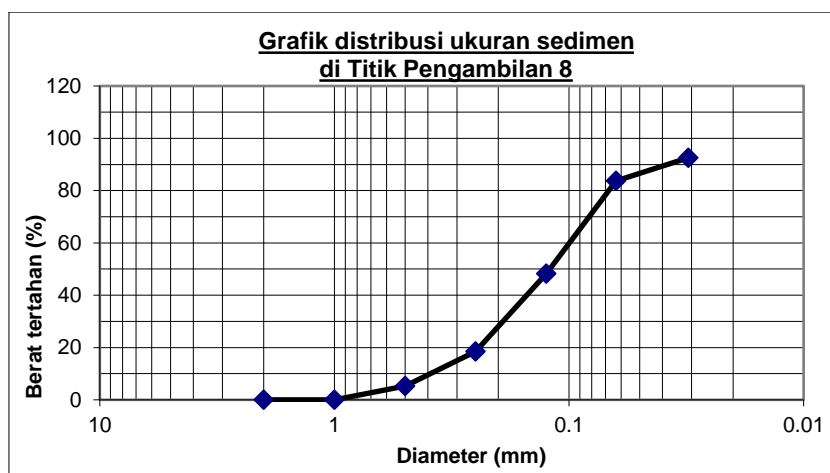
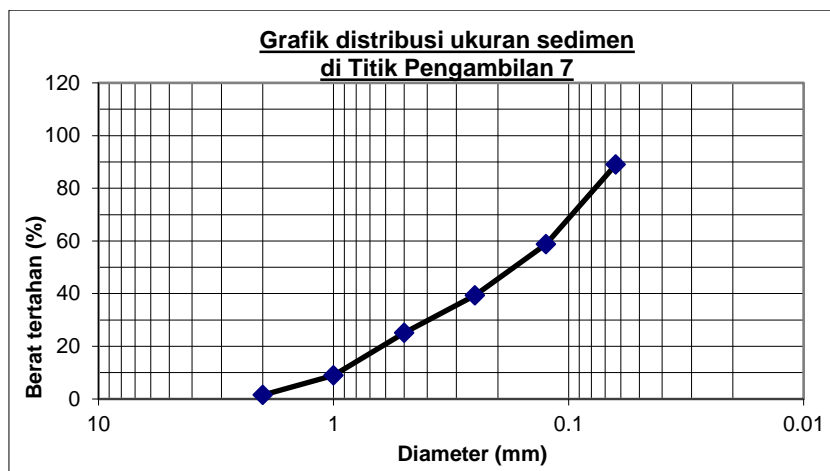
- Rijn, Leo C. van. 2020. "Erodibility of Mud–Sand Bed Mixtures." *Journal of Hydraulic Engineering* 146 (1): 1–19. [https://doi.org/10.1061/\(asce\)hy.1943-7900.0001677](https://doi.org/10.1061/(asce)hy.1943-7900.0001677).
- Shalih, Osmar, et al. 2023. "Risiko Bencana Indonesia: Memahami Risiko Sistemik di Indonesia. Penerbit: Pusat Data Informasi Komunikasi Bencana Badan Penanggulangan Bencana
- Shields, A. F. 1936. "Application of Similarity Principles and Turbulence Research to Bed-Load Movement." *Hydrodynamics Laboratory California Institute of Technology Pasadena*. 1–36.
- Soulsby, Richard, Thomas Telford, and Thomas Telford. n.d. "Dynamics of Marine Sands A Manual for Practical Applications."
- Stokes, G. G. 1905. "On The Effect Of The Internal Friction Of Fluids On The Motion Of Pendulums," 1–86.
- Umar, Hasdinar et al. 2021. "Analisa Ukuran Butiran Sedimen Pantai Desa Aeng Kabupaten Takalar Dan Pantai Padongko Kabupaten Barru," *Jurnal Inovasi Sains dan Teknologi Kelautan* 2(1): 16–20. <https://doi.org/10.20956/zt.v1i1.9653>.

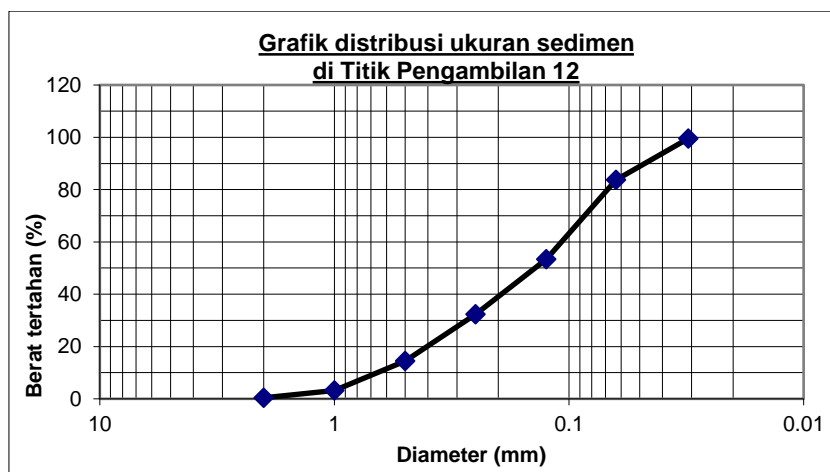
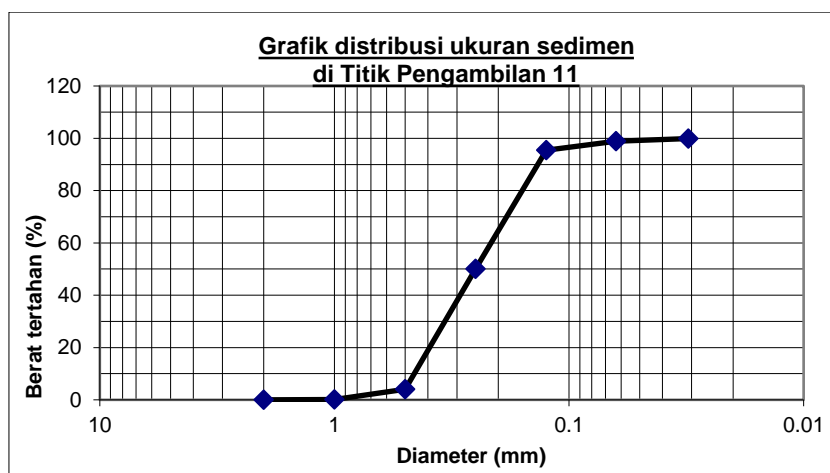
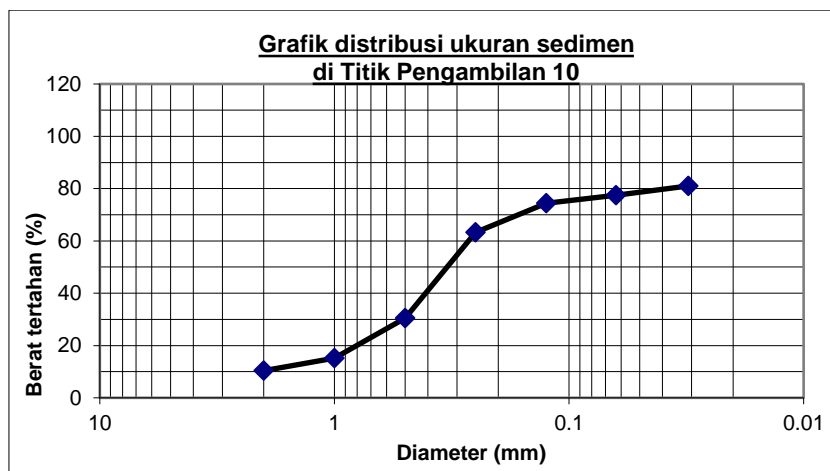
LAMPIRAN

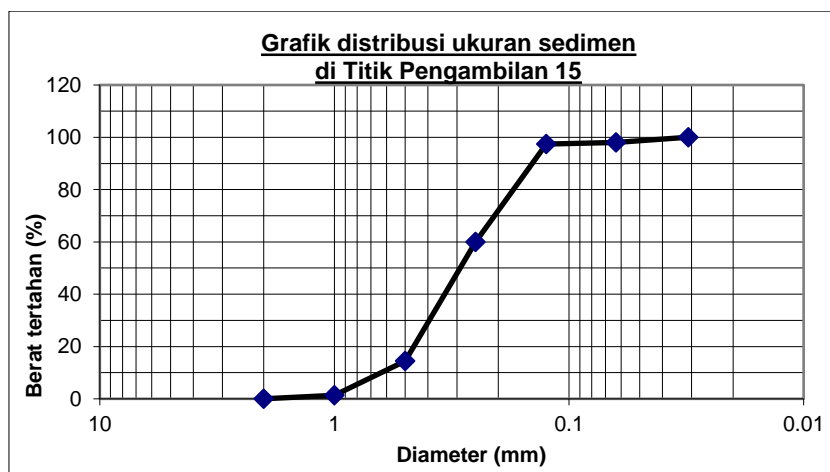
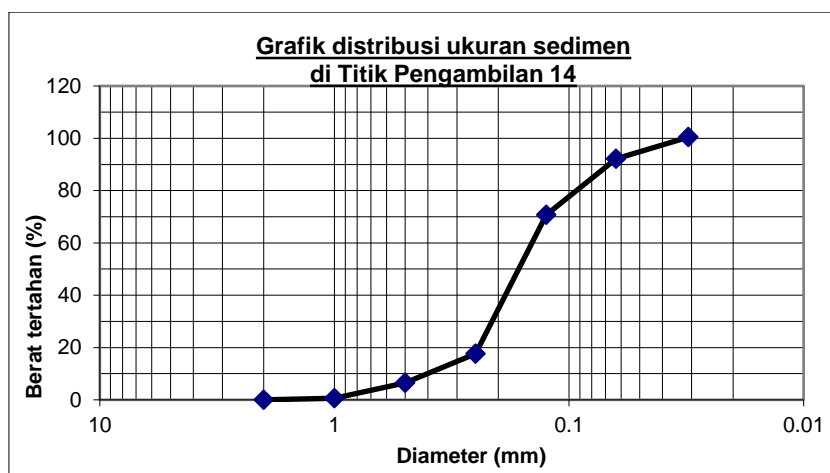
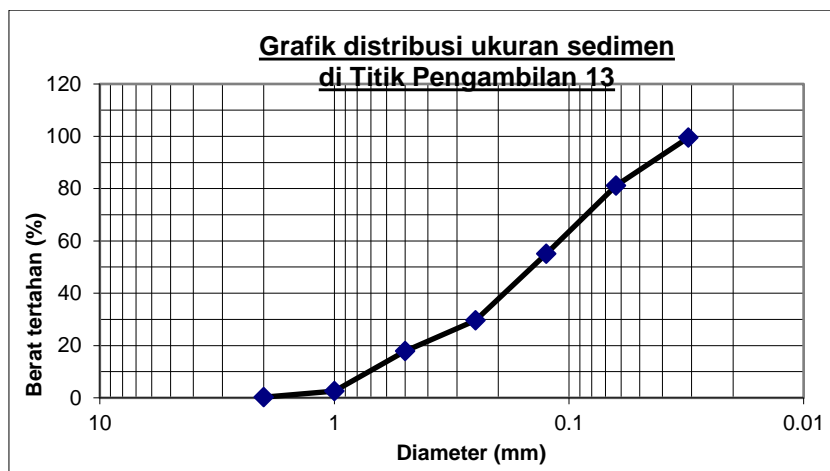
Lampiran 1. Distribusi Ukuran Butir Sedimen

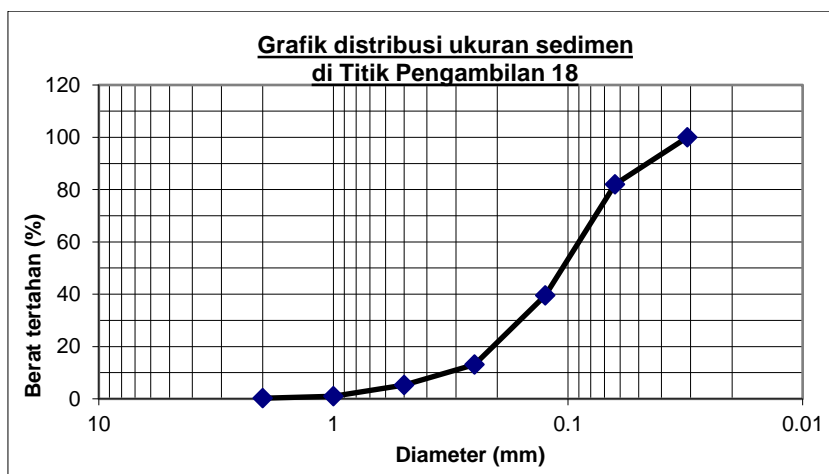
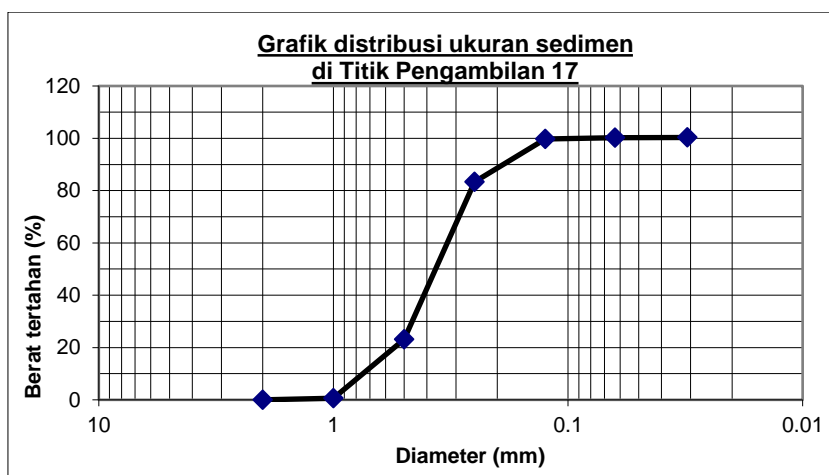
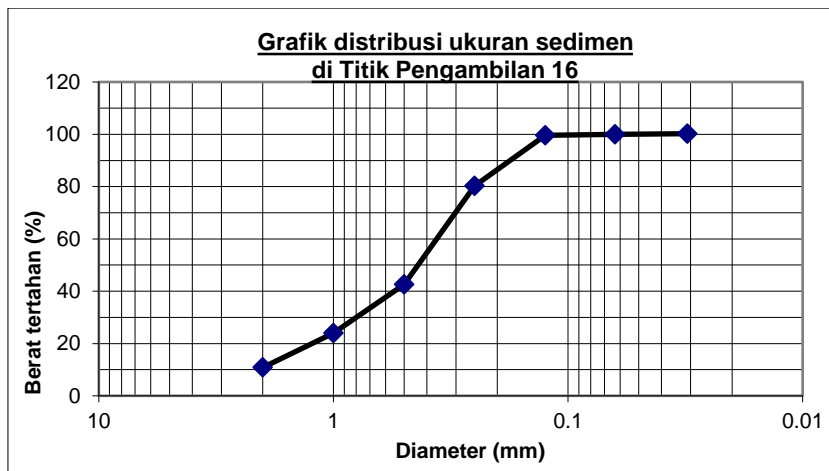


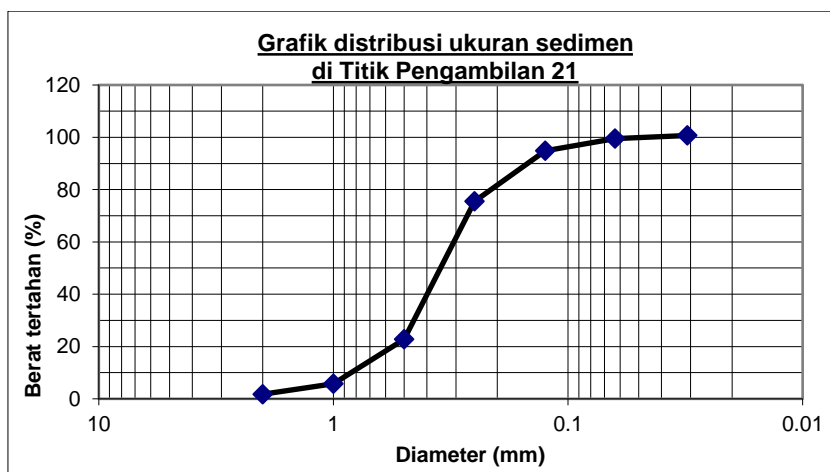
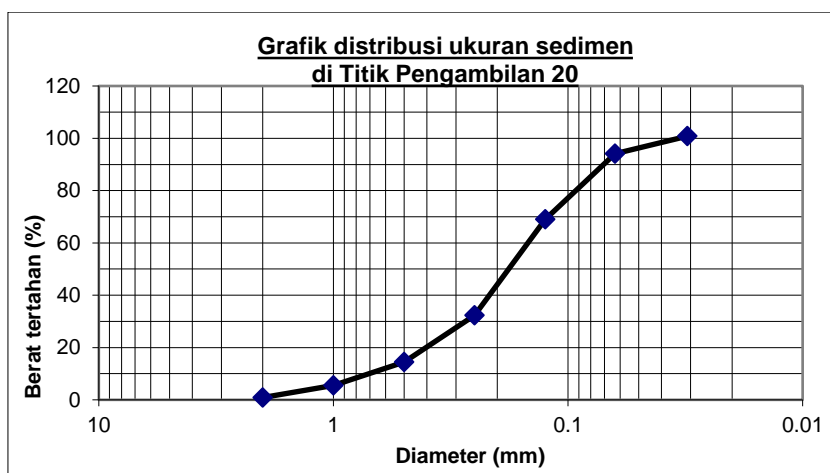
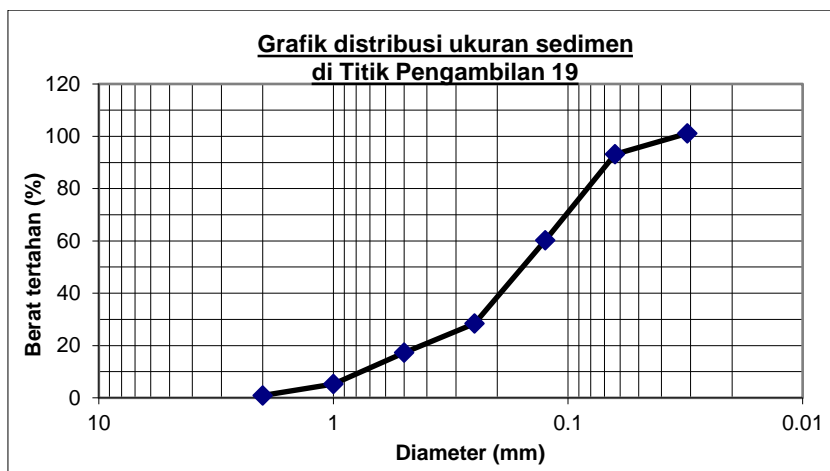


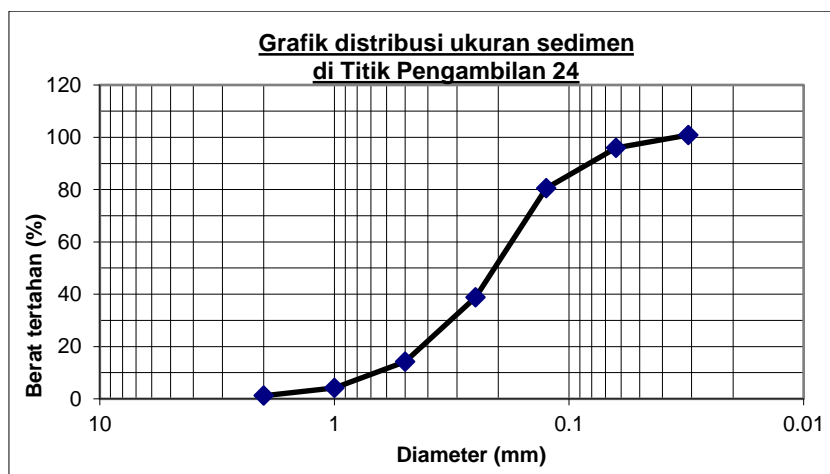
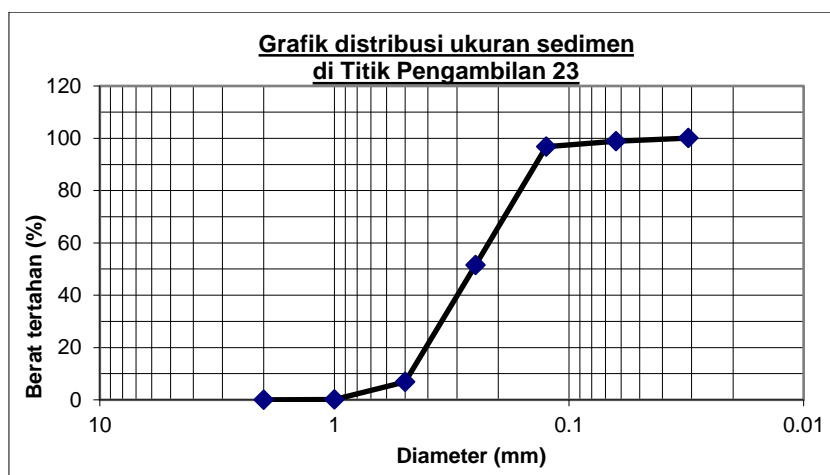
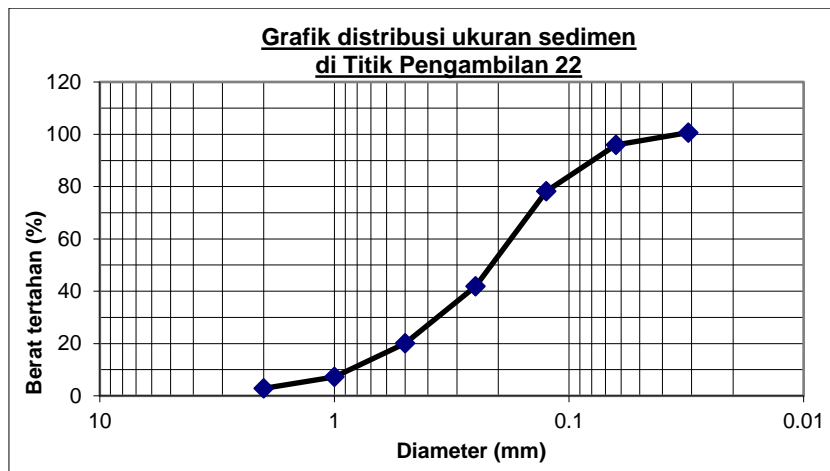












Lampiran 2. Data Bathimetri

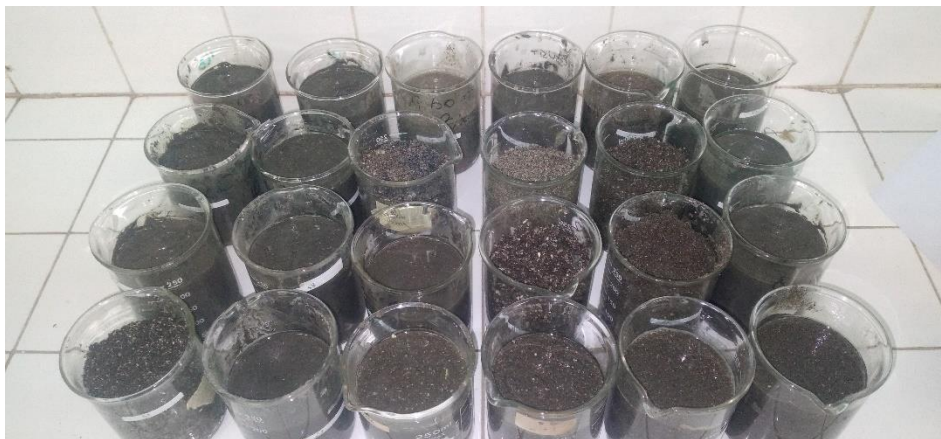
Name	POINT_X	POINT_Y	Z
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S3	119,351888	-5,325324	-0,271546602
S1	119,361391	-5,314473	-0,399738296
S6	119,357938	-5,342185	-2,026454687
S4	119,351416	-5,328519	-2,063479424
S9	119,348718	-5,32514	-2,579316854
S15	119,345063	-5,324461	-2,766053677
S2	119,358222	-5,319986	-3,177139044
S11	119,351743	-5,334885	-3,789512873
S7	119,357848	-5,314518	-4,03861618
S12	119,3554	-5,342141	-4,089105129
S8	119,354312	-5,3194	-4,507978439
S10	119,348019	-5,32835	-4,576459408
S14	119,350156	-5,318758	-5,443759441
S16	119,344855	-5,328406	-5,471891403
S17	119,349149	-5,334946	-5,868113041
S13	119,354311	-5,314051	-5,921655655
S22	119,343738	-5,319429	-5,965299129
S18	119,353077	-5,341975	-7,073321342
S20	119,34877	-5,341952	-8,067154884
S19	119,349143	-5,314949	-8,167043686
S23	119,344521	-5,33437	-8,888813972
S21	119,343809	-5,31519	-8,998149872
S24*	119,343972	-5,341308	-9,444330215

Lampiran 3. Dokumentasi Penelitian



Lampiran 4. Analisis Laboratorium

Sedimen Basah (Sebelum di oven)

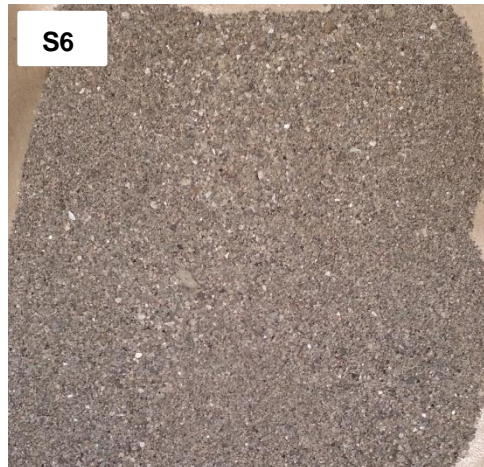


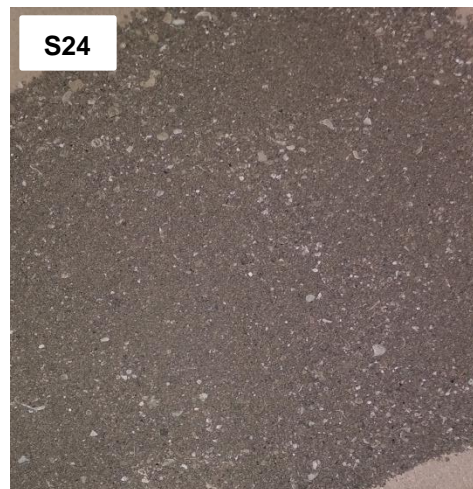
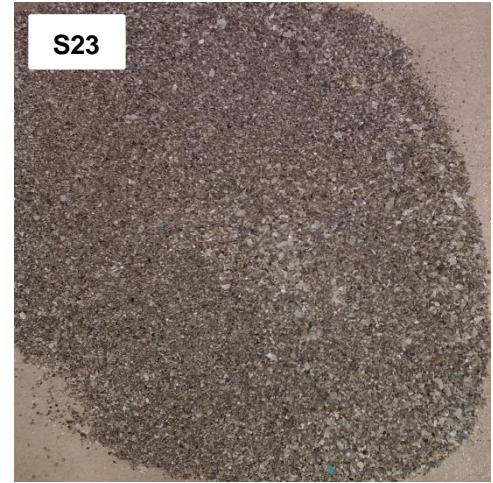
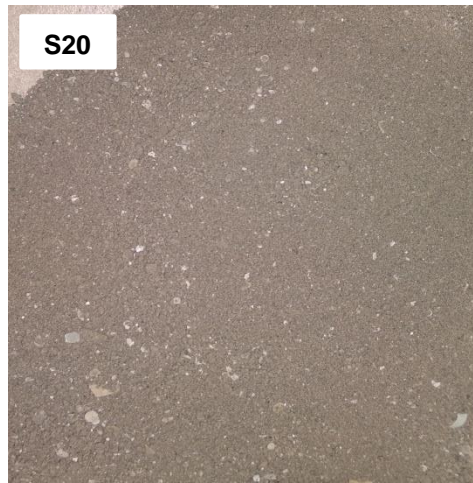
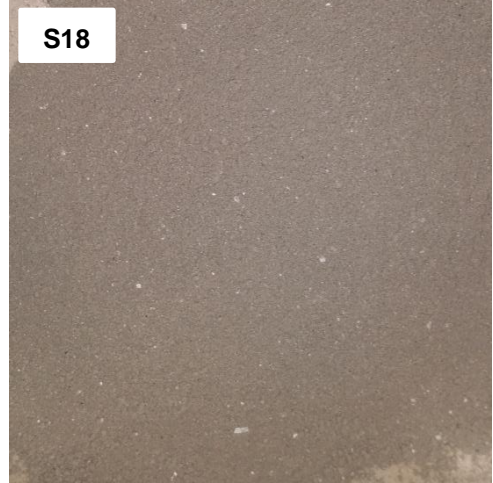
Sedimen Kering (Setelah di oven)



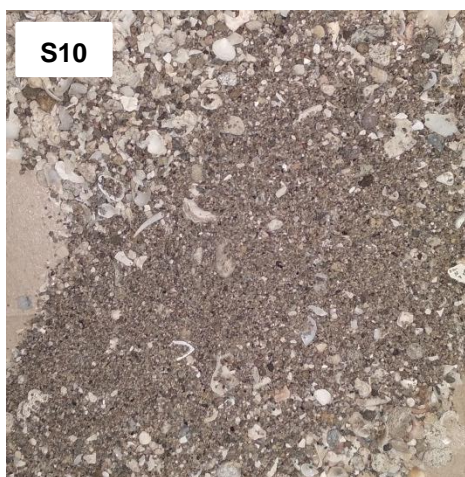
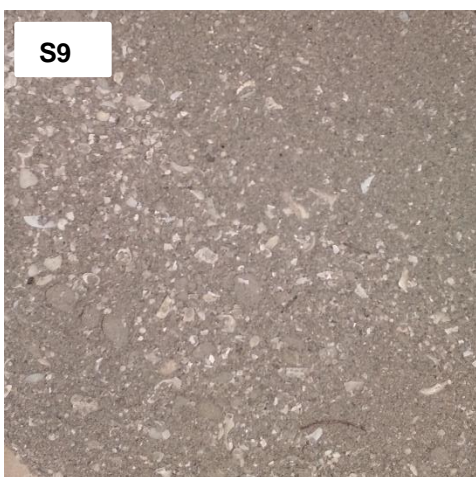
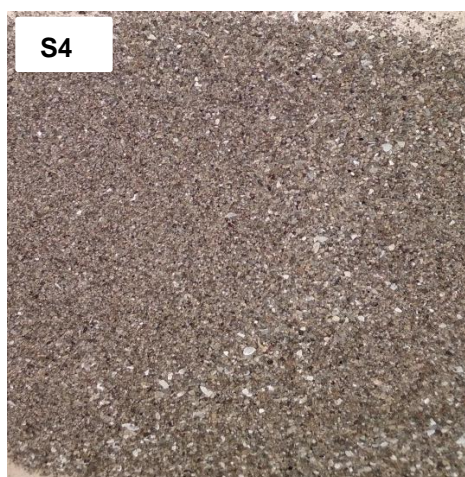
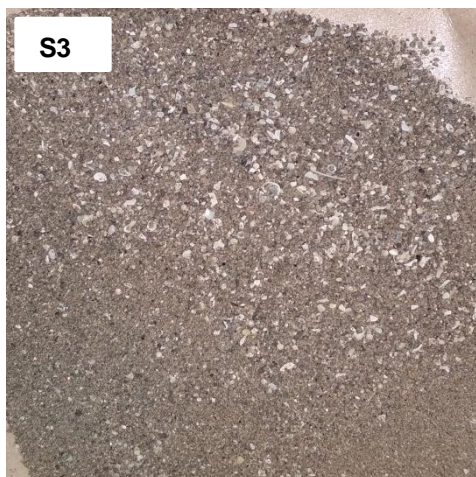


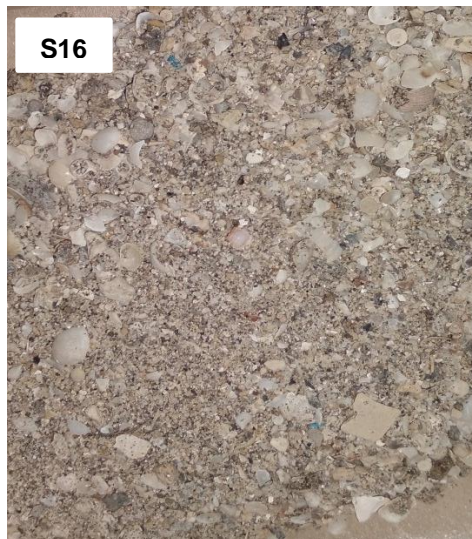
Sampel Sedimen yang Akan Diayak (Pengambil Sampel di Lokasi Boe)



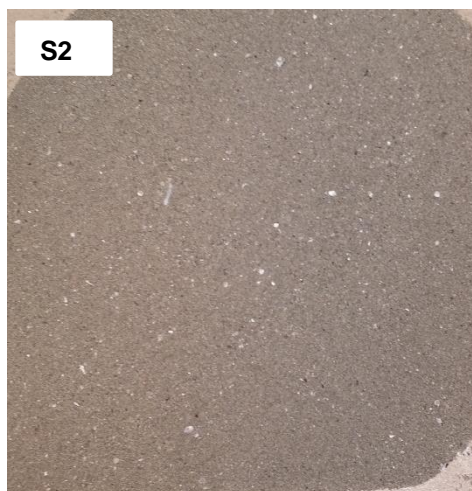
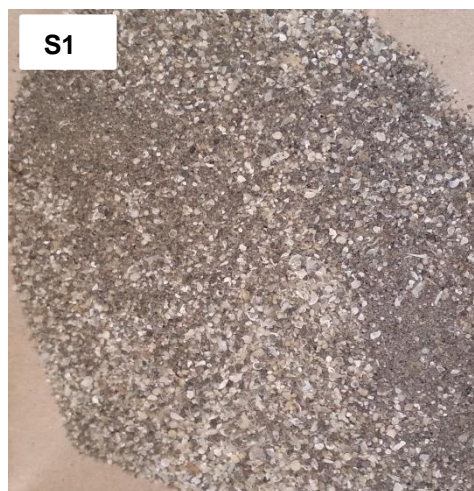


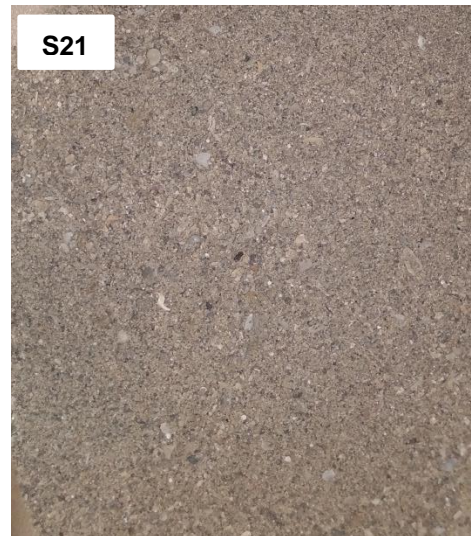
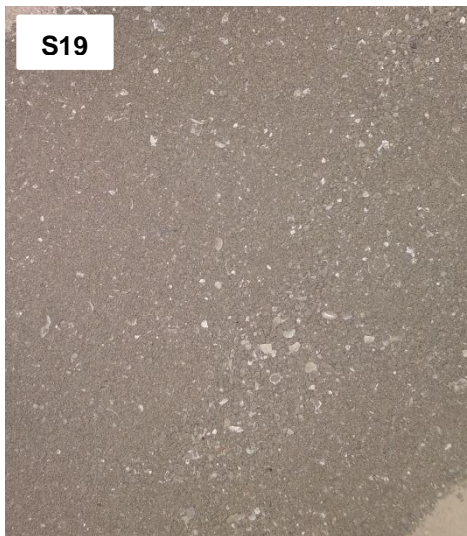
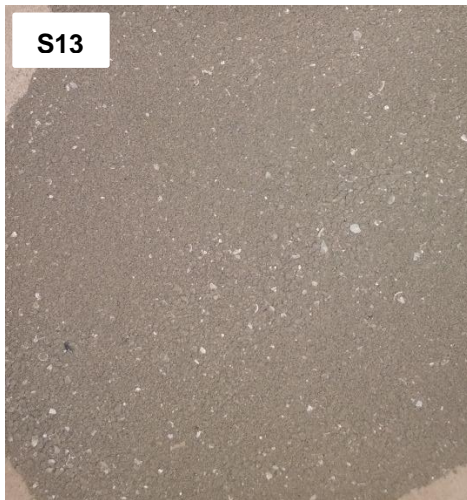
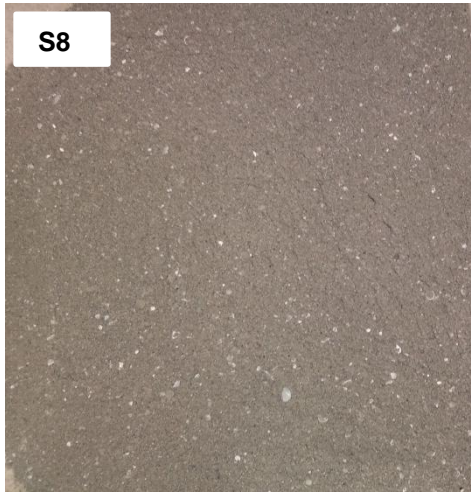
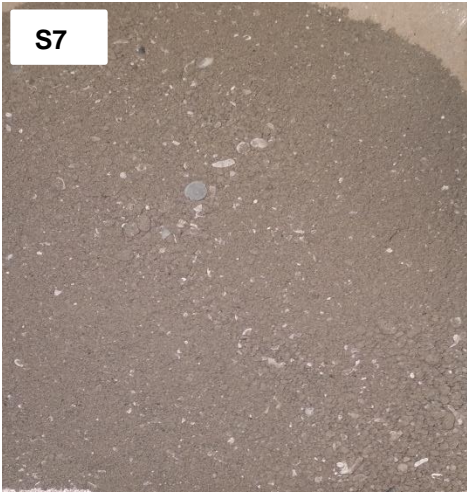
Sampel Sedimen yang Akan Diyak (Pengambil Sampel di Lokasi Boddia)

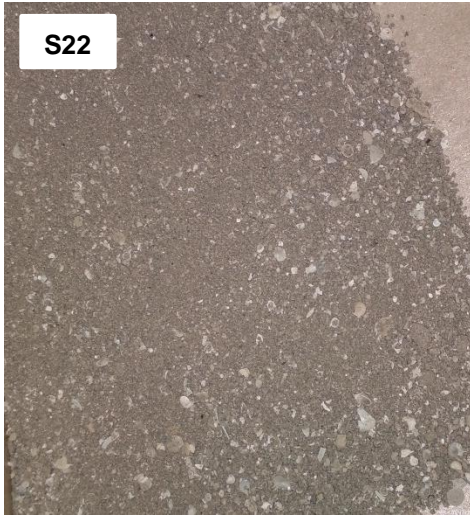






Sampel Sedimen yang Akan Diayak (Pengambil Sampel di Lokasi Bayowa)







Lampiran 5. Hasil Uji Total Suspended Solid

	LABORATORIUM PENELITIAN DAN PENGEMBANGAN SAINS FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS HASANUDDIN Jl. Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar 90245 Telp. 0411-586016 • Fax. 0411-588551 • Email : lpps_fmipa.unhas@gmail.com		
LAPORAN HASIL PENGUJIAN			
<i>CERTIFICATE OF ANALYSIS</i>			
Nomor Pekerjaan		: LPPS.2405-15/3	
<i>Job Number</i>			
Dipersembahkan Kepada			
<i>Presented To</i>			
Kepada Yth	: Nurul Izzah	Jabatan	: Peneliti
<i>Attention</i>		<i>Job Title</i>	
Nama Pelanggan	: Nurul Izzah	Tujuan Pengujian	: Penelitian
<i>Customer Name</i>		<i>Purpose of analysis</i>	
Alamat/Universitas	: Fakultas MIPA Universitas Hasanuddin	No. Faks/ Fax No.	: -
<i>Address/University</i>		No. Telp./ Phone No.	: 085298270834
Tanggal Sampel Diterima	: 20 Mei 2024	Tanggal Sampel Dianalisis	: 22 Mei 2024
<i>Date of Sample Receipt</i>		<i>Date of Sample Analysed</i>	
Email	: nurulizzahm1@gmail.com	Total Halaman	: 2
<i>Email</i>		<i>Total of pages</i>	
Nama Pengujian	: Uji Total Suspended Solid (TSS) pada Air Laut		
<i>Name of analysis</i>			

Hasil hanya berhubungan dengan contoh yang diuji dan laporan ini tidak boleh digandakan kecuali seluruhnya.
The result relate only to the samples tested and this report shall not be reproduced except in full

No. Dok: FSOP-7.8-LPPS-FMIPAUIH-01.1 No.Revisi/Terbit:1/1 Halaman 1 dari 2



LABORATORIUM PENELITIAN DAN PENGEMBANGAN SAINS
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS HASANUDDIN
Jl. Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar 90245
Telp. 0411-586016 • Fax. 0411-588551 • Email : lpps.fmipa.unhas@gmail.com

LAPORAN HASIL PENGUJIAN
CERTIFICATE OF ANALYSIS

Nomor Pekerjaan : LPPS.2405-15/3

I. Pelanggan / Principal

1.1 Nama / Name : Nurul Izzah
1.2 Alamat / Address : Tamalanrea Indah
1.3 Telepon / Phone : 085298270834
1.4 Personil Penghubung / Contact Person : -
1.5 Email / Email : nurulizzahm1@gmail.com

II. Contoh Uji / Sample

2.1 Kode Sampel / Sample Code : LPPS.2405-15/3a – 3c
2.2 Kemasan / Packaging : Botol sampel
2.3 Nama Sampel / Sample Name : Air Laut
2.4 Jumlah Sampel / Number of Sample : 3
2.5 Tanggal Sampling / Date of Sampling : 18 – 19 Mei 2024
2.6 Diterima / Date of Received : 20 Mei 2024
2.7 Tanggal Uji / Date of Analysis : 22 Mei 2024
2.8 Jenis Uji / Type of Analysis : Uji TSS

III. Hasil Uji / Result

Kode Sampel	Nama Sampel	Hasil (mg/L)	Baku Mutu*	Metode
LPPS.2405-15/3a	A1	21.50	< 20-80 mg/L	SNI 6989.3:2019
LPPS.2405-15/3b	A2	12.50		
LPPS.2405-15/3c	A3	29.50		

*Berdasarkan PP No. 22 Tahun 2021 Lampiran VIII tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup



Makassar, 29 Mei 2024
Penanggung Jawab Mutu

Prof. Dr. Nanuk Hariani Soekanto, MS
NIP. 19601215 198702 2 001

Catatan:

- Hasil Uji hanya berlaku untuk contoh tersebut di atas
- Dilarang mengutip/menyalin sebagian isi hasil uji ini

Lampiran 6. Keadaan vegetasi di sekitar sungai wilayah Bayowa

