

UJI KUALITAS AIR KOLAM DI PELABUHAN PERIKANAN NUSANTARA BRONDONG

JANUARI 2025



Envilab
Environmental Laboratory



Komisi Akreditasi Nasional
LP - 572 - IDN

LABORATORY TEST RESULT

JOB NUMBER : ENV-2243348

Date : November 13, 2024

Customer : PELABUHAN PERIKANAN NUSANTARA BRONDONG

Attention : Mr. Ibrahim, A.Pi, M.S.

Customer Sample ID : Air Laut TPI Lama
Location Coordinate : 8:06:52 117:142" E: 112:17'45.628"
Date Sampled : 29/10/2024
Time Sampled : 12:19
Sample Matrix : Surface Water

Laboratory Sample ID : 2243348-6
Date Received : 31/10/2024
Time Received : 08:00
Interval Analysis : 31 Oct - 11 Nov

NO	TEST DESCRIPTION	SAMPLE RESULT	REGULATORY LIMIT *	UNIT	METHOD
1	Temperature	30.1	Air Temp: ± 3	$^{\circ}\text{C}$	SNI 06-6969-23-2005
2	Total Dissolved Solids, TDS	25824	1000	mg/L	SNI 6969-27-2019
3	Total Suspended Solids, TSS	30	40	mg/L	SNI 6969-3-2019
4	Colour ^a	12.3	15	Pt/Co	SNI 6969-80-2011
5	pH	7.96	6.0 - 9.0	pH Unit	SNI 6969-11-2019
6	Biochemical Oxygen Demand, BOD ₅	352	2	mg/L	APHA 5210 B-2017
7	Chemical Oxygen Demand, COD	1210	10	mg/L	SNI 6969-2-2019
8	Dissolved Oxygen, DO ^{ab}	4.9	6	mg/L	SNI 06-6969-14-2004
9	Sulfate, SO ₄ ²⁻	348.5	300	mg/L	SNI 6969-20-2019
10	Chloride, Cl ⁻	22841	300	mg/L	SNI 6969-19-2009
11	Nitrate, NO ₃ -N	0.28	10	mg/L	SNI 6969-75-2011
12	Nitrite, NO ₂ -N	0.029	0.06	mg/L	SNI 06-6969-9-2004
13	Ammonia, NH ₃ -N	0.14	0.1	mg/L	SNI 06-6969-30-2005
14	Total-N ^a	2.35	15	mg/L	IKM-EI-SML-35 (Calculation)
15	Total Phosphate as P	0.025	0.2	mg/L	SNI 06-6969-31-2005
16	Fluoride, F ⁻	0.43	1	mg/L	SNI 06-6969-25-2005
17	Sulfide, as H ₂ S ^a	0.001	0.002	mg/L	SNI 6969-70-2009
18	Cyanide, CN ^a	0.018	0.02	mg/L	IKM-EI-SML-36 (Spectrophotometry)
19	Free Chlorine, Cl ₂	0.02	0.03	mg/L	IKM-EI-SML-27 (Spectrophotometry)
20	Barium, Ba	0.49	1	mg/L	SM APHA 23rd, 3111D, 2017
21	Boron, B ^a	0.97	1	mg/L	APHA 4500 B-2005
22	Mercury, Hg	0.00011	0.001	mg/L	APHA 3113B-2017
23	Arsenic, As	0.0086	0.05	mg/L	APHA 3113B-2017
24	Selenium, Se	0.008	0.01	mg/L	APHA 3113B-2017
25	Iron, Fe	< 0.19	0.3	mg/L	SNI 6969-84-2019
26	Cadmium, Cd ^a	0.0034	0.01	mg/L	SNI 6969-16-2009
27	Cobalt, Co	< 0.04	0.2	mg/L	SNI 6969-68-2009
28	Manganese, Mn	< 0.049	0.1	mg/L	SNI 6969-84-2019
29	Nickel, Ni	< 0.037	0.05	mg/L	SNI 6969-84-2019
30	Zinc, Zn	< 0.04	0.05	mg/L	SNI 6969-84-2019
31	Copper, Cu	< 0.0153	0.02	mg/L	SNI 6969-84-2019
32	Lead, Pb ^a	< 0.006	0.02	mg/L	SNI 6969-8-2009
33	Hexavalent Chromium, Cr ⁶⁺	< 0.007	0.05	mg/L	IKM-EI-SML-37 (Spectrophotometry)
34	Oil and Grease	< 0.28	1	mg/L	IKM-EI-SML-40 (FTIR)
35	Surfactants, MBAS	0.025	0.2	mg/L	SNI 06-6969-51-2005
36	Phenol	< 0.001	0.002	mg/L	SNI 06-6969-21-2004
37	Fecal Coli ^a	200	100	MPN/100 mL	SNI 19-3957-1995
38	Total Coli ^a	5000	1000	MPN/100 mL	SNI 06-4156-1995
39	Waste ^a	Nilai	Nilai	-	IKM-EI-SML-12 (Visual Check)

* Not Accredited

** As per PPRI, No. 22/2021 Appendix VI Class 1

ab Dissolved Oxygen (DO) is minimum threshold value

PR-EI-SML-45

Test report may not be duplicated except all without approval of PT. Envilab Indonesia

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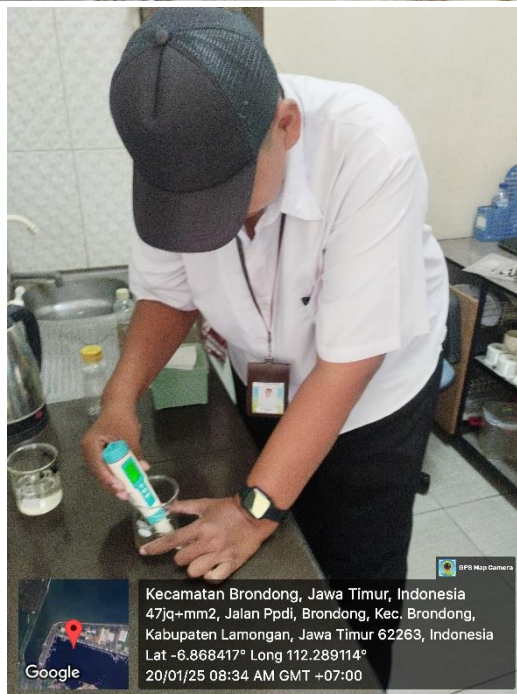
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Mengetahui,

Katimja TKPU



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