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TOA CORPORATION

Date: January 07, 2025
Ref.: TOA-KPA-KE001-LTS-ENGREP-390

Mr. Hiroyuki Takakaze
Project Manager
Nippon Koei Co., Ltd.
Office 8CD Epic Business Park,
Links Road, Nyali, Mombasa, Kenya

Project: **Mombasa Special Economic Zone Development Project (Port Sub-Project)**
Package-1: Civil and Building Works

Subject: **Monthly Environmental Monitoring Report – October 2025**

Dear Mr. Takakaze,

With reference to Contract Specification Section 103.18 – Environmental Monitoring, we are pleased to submit our proposed Environmental Monitoring Report for October 2025, for your review and approval.

We would greatly appreciate a prompt response to facilitate the continued progress of the project. Your timely review and approval will enable us to proceed with as planned.

We thank you in advance for your attention and cooperation in this matter.

Yours faithfully,

cn=Keigo Nakamura,
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For Keigo Nakamura
Project Manager

CC: Engr. Mathews O. Amuti (General Manager of Infrastructure Development – KPA)
Engr. Kennedy G. Nyaga (Manager, Projects Development & Management – KPA)

Enclosure:
Environmental Monitoring Report in three (3) hard copies, and one (1) copy of USB Disk.

東亜建設工業
TOA CORPORATION

MOMBASA SPECIAL ECONOMIC ZONE PROJECT
CONTRACT PACKAGE 1 – CIVIL AND BUILDING WORKS
(KPA/065/2022-23/PDM)

MONTHLY ENVIRONMENTAL MONITORING REPORT

OCTOBER 2025

DOCUMENT REVIEW VALIDATION:

ACTION	TITLE	NAME	SIGNATURE
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DOCUMENT REVISION HISTORY:

Revision	Date	Reason for Revision
00	02 January 2026	Submission for Approval

EMPLOYER: KENYA PORTS AUTHORITY (KPA)
ENGINEER: GENERAL MANAGER OF INFRASTRUCTURE DEVELOPMENT- KENYA PORTS AUTHORITY (GMID-KPA)
ENGINEER'S REPRESENTATIVE: NIPPON KOEI

DOCUMENT REVIEW VALIDATION:

ACTION	TITLE	NAME	SIGNATURE
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Reviewed by	Quality Assurance Manager	Dr. Mohamed KAMAL	
Verified by	Construction Manager	Asayuki FUKUI	

DOCUMENT REVISION HISTORY:

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ENGINEER'S REPRESENTATIVE: NIPPON KOEI

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1. DESCRIPTION OF CONSTRUCTION ACTIVITIES

Table 1 summarizes the main construction activities undertaken during the month.

Table 1 Summary of Main Construction Activities

Component	Construction activities
Temporary facilities	
Quay	Dredging
Trestle	Dredging
Yard	Temporary access roads
Dredging	Dredging at area A, that is Quary and portion of Trestle area (approx. 375,000 M3)
Buildings/facilities	Weighbridge, Contractor's office and canteen
Others	Perimeter fencing and gate installation

Table 2 Photos of Main Construction Activities

Dredging

Dredging

Temporary Access Road Construction

Temporary Access Road Construction

Weighbridge Construction

Contractor’s Office & Canteen Construction

Temporary Access Road Construction

Gate Installation

2. ENVIRONMENTAL MANAGEMENT

Table 3 shows the main mitigation measures undertaken during the month.

Table 3 Implemented Mitigation Measures

Potential Impacts	Mitigation Measures
Turbidity dispersion from dredging	Use of frame-type silt curtain
Fugitive dust from vehicle movement	Water sprinkling using water bowser

3. ENVIRONMENTAL MONITORING

Table 4 shows the environmental monitoring implemented during the month.

Table 4 Implementation Status of Environmental Monitoring

Monitoring Item	Implementation (Y/N)	Implementation Dates	Reason for non-implementation
Noise	Yes	○ 07/10/2025 ○ 14/10/2025 ○ 21/10/2025 ○ 28/10/2025	Implemented on schedule
Air quality	No		Change of monitoring location from temporary yard to DCC area. Monitoring at the new point will begin in November 2025
Turbidity (in situ survey)	Yes	○ 07/10/2025 11/10/2025 ○ 12/10/2025 ○ 15/10/2025 17/10/2025 ○ 21/10/2025 ○ 23/10/2025 ○ 30/10/2025	Implemented on schedule
Turbidity (aerial survey)	No		Drone pilot application to fly was not approved by authorities for the month of October
General water quality	Yes	○ 12/10/2025 ○ 17/10/2025 ○ 23/10/2025	Implemented on schedule
Coral	Yes	○ 25/10/2025 ○ 26/10/2025	Implemented on schedule
Seagrass	Yes	○ 25/10/2025 ○ 26/10/2205	Implemented on schedule
Macrobenthos	No		Scheduled date for implementation was not yet due

3.1. NOISE

3.1.1. Objective

Noise monitoring was conducted to confirm whether construction noise remained within acceptable levels (i.e. reference standard).

3.1.2. Method

Table 5 outlines the method of noise monitoring. Figure 1 shows the noise monitoring sites.

Table 5 Method of Noise Monitoring

Parameters	A-weighted equivalent sound level (LAeq)
Method	In situ measurement with sound level meter (PCE-322 Sound Level Meter)
Frequency	Once a week during daytime working hours (06:00-18:00)
Location	Construction boundary: N1 and N2 Sensitive site*: N3 (DCC office) *: Monitoring sites will be increased as necessary
Reference standard	N1 and N2: 75 dB*1 N3: 55 dB (mixed residential) *2 *1: Second Schedule of Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009 *2: First Schedule of Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009

Figure 1 Noise Monitoring Sites

3.1.3. Results and Discussion

Table 6 shows the results of noise monitoring and the implemented remedial actions.

Table 6 Results of Noise Monitoring

Date	Site	LAeq (dB)	Ref. standard (dB)	Possible cause of exceedance and remedial actions
7/10/2025	N1	54.9	75	Noise level was within the threshold limit of the Reference Standard
	N2	43.3	75	Noise level was within the threshold limit of the Reference Standard
14/10/2025	N1	60.0	75	Noise level was within the threshold limit of the Reference Standard
	N2	54.5	75	Noise level was within the threshold limit of the Reference Standard
21/10/2025	N1	54.3	75	Noise level was within the threshold limit of the Reference Standard
	N2	42.0	75	Noise level was within the threshold limit of the Reference Standard
28/10/2025	N1	65.2	75	Noise level was within the threshold limit of the Reference Standard
	N2	59.8	75	Noise level was within the threshold limit of the Reference Standard

3.2. WATER QUALITY

3.2.1. 3.2.1 Turbidity (In-situ Measurement)

3.2.1.1. *Objective*

Turbidity monitoring (in situ measurement) was conducted to confirm whether turbidity dispersion from dredging and disposal activities remained within acceptable levels (i.e. reference standard).

3.2.1.2. *Method*

Table 7 outlines the method of turbidity monitoring. Figure 2 shows turbidity monitoring sites.

Table 7 Method of Turbidity Monitoring (In-situ Measurement)	
Parameters	Turbidity (NTU)
Method	In situ measurement with water quality meter (TOA-DKK WQS-24)
Frequency	Three times/week during dredging works
Layer	Surface and bottom
Location	Port Reitz/ Kilindini: 5 sites (WI1-WI5) Tudor Creek: 3 sites (WI6-WI8) Inner reef: 4 sites (WIR1- WIR4) Outer reef: 5 sites (WOR3-WOR7)
Reference standard	Dredging/disposal method will be reconsidered in case of exceedance of the following levels for 2 weeks continuously: Inshore: Site specific baseline + Site specific threshold level Inner reef area: Site specific baseline + Threshold level (2 NTU) Outer reef area: Site specific baseline + Threshold level (1 NTU)

Figure 2 Turbidity Monitoring Sites

3.2.1.3. *Results*

Table 8 shows the results of turbidity monitoring.

Table 8 Results of Turbidity Monitoring (NTU)

Date		WI1	WI2	WI3	WI4	WI5	WI6	WI7	WI8	WIR1	WIR2	WIR3	WIR4	WOR3	WOR4	WOR5	WOR6	WOR7
07/10/2025	S	9.6	7.1	5.5	0.8	0.0	8.4	26.3	4.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	8.9	8.3	6.4	0.0	0.0	9.2	28.3	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/10/2025	S	6.7	2.4	1.0	0.9	0.8	3.2	18.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
	B	10.7	2.5	1.2	0.7	0.5	6.1	16.6	13.9	0.0	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0
12/10/2025	S	10.5	6.9	2.4	0.8	0.0	7.5	5.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	12.9	14.8	2.0	1.1	0.0	5.4	8.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15/10/2025	S	16.8	3.5	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	13.9	4.1	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16/10/2025	S	1.4	4.3	0.0	0.0	0.0	0.0	0.0	5.3	0.0	1.9	0.0	0.0	0.0	0.0	0,0	0.0	0.0
	B	2.4	4.9	0.0	0.0	0.0	0.0	0.0	7.7	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17/10/2025	S	4.7	1.8	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	4.7	1.9	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21/10/2025	S	9.1	10.2	7.5	2.1	0.0	8.5	13.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	9.8	8.5	2.4	2.5	0.0	9.2	14.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22/10.2025	S	12.4	10.0	2.2	3.6	2.7	11.1	11.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	12/8	10.6	4.3	3.3	0.0	13.2	12.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23/10/2025	S	8.7	9.2	2.2	2.2	2.0	2.1	9.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	10.5	11.7	2.6	2.6	1.8	6.7	8.2	7.5	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0
30/10/2025	S	6.8	8.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	9.2	9.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31/10/2025	S	6.6	1.0	2/1	3.0	0.0	0.0	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	B	5.6	1.4	1.7	2.4	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref. Standard	**S/B**	**22.6**	**17.2**	**7.5**	**6.5**	**3.3**	**11.3**	**13.9**	**15.7**	**2.8**	**3.1**	**2.4**	**2.5**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**

Table 9 shows the remedial actions implemented in cases where exceedances of the reference standard occurred due to construction-related activities.

Table 9 Implemented Remedial Actions

Site	Exceedance of Ref. Standard (Y/N)*	Possible Cause of Exceedance and Remedial Actions
WI1	N	Turbidity was within the reference standard
WI2	N	Turbidity was within the reference standard
WI3	N	Turbidity was within the reference standard
WI4	N	Turbidity was within the reference standard
WI5	N	Turbidity was within the reference standard
WI6	N	Turbidity was within the reference standard
WI7	N	Turbidity was within the reference standard
WI8	N	Turbidity was within the reference standard
WIR1	N	Turbidity was within the reference standard
WIR2	N	Turbidity was within the reference standard
WIR3	N	Turbidity was within the reference standard
WIR4	N	Turbidity was within the reference standard
WOR3	N	Turbidity was within the reference standard
WOR4	N	Turbidity was within the reference standard
WOR5	N	Turbidity was within the reference standard
WOR6	N	Turbidity was within the reference standard
WOR7	N	Turbidity was within the reference standard

*: Exceedance of ref. standard for 2 weeks continuously.

3.2.2. General Water Quality

3.2.2.1. *Objective*

General water quality monitoring was conducted to confirm the status of water quality around the construction site.

3.2.2.2. *Method*

Table 10 shows the method of general water quality monitoring. The monitoring sites are the same as turbidity monitoring (see Figure 2).

Table 10 Method of General Water Quality Monitoring	
Parameters	Water temp., salinity, pH, DO, SS, T-N, T-P, Coliforms
Method	Water temp., salinity, pH, DO: In situ measurement with portable multi-item water quality meter (TOA-DKK WQS-24) SS, T-N, T-P, Coliforms: Sampling and laboratory analysis
Frequency	One time/week during dredging works
Layer	Surface and bottom
Location	Port Reitz/ Kilindini: 5 sites (WI1-WI5) Tudor Creek: 3 sites (WI6-WI8) Inner reef: 4 sites (WIR1- WIR4) Outer reef: 5 sites (WOR3-WOR7)
Reference standard	N/A

3.2.2.3. *Results and discussion*

Table 11 shows the results of general water quality monitoring.

Table 11 Results of Water Quality Monitoring

Site	Date	-	Temp. (°C)	Salinity	pH	DO (mg/l)	SS (mg/l)	T-N (mg/l)	T-P (mg/l)	Coliforms (CFU/100ml)
WI1	12/10/2025	S	29.0	33.40	7.85	5.32	29.6	0.7	<0.10	10.0
		B	29.10	33.60	7.85	5.28	28.8	0.5	<0.10	10.0
	17/10/2025	S	28.30	34.00	7.89	5.08	20.0	0.8	<0.10	10.0
		B	28.30	34.00	7.88	5.08	15.6	0.5	<0.10	Nil
	23/10/2025	S	28.70	32.70	7.78	6.42	22.0	1.0	<0.10	Nil
		B	28.60	32.90	7.94	6.32	19.2	0.8	<0.10	Nil
WI2	12/10/2025	S	28.20	32.40	7.90	4.95	51.2	3.0	<0.10	Nil
		B	27.80	33.50	7.88	4.86	44.4	3.3	<0.10	Nil
	17/10/2025	S	28.50	33.70	7.87	5.10	46.0	3.2	<0.10	Nil
		B	28.50	33.80	7.87	5.17	38.0	3.0	<0.10	Nil
	23/10/2025	S	28.60	32.60	7.97	6.66	40.0	3.2	<0.10	Nil
		B	28.60	32.70	7.99	6.52	36.4	3.0	<0.10	Nil
WI3	12/10/2025	S	27.0	33.0	8.01	5.58	20.0	150.0	<0.10	40
		B	26.80	33.0	8.02	5.5.2	15.6	120.0	0.1	20
	17/10/2025	S	27.20	32.80	7.98	5.41	40.8	2.5	<0.10	10
		B	27.00	32.90	7.97	5.19	24.0	2.0	<0.10	10
	23/10/2025	S	28.20	32.30	8.06	6.61	40.0	3.4	<0.10	Nil
		B	28.20	32.20	8.11	6.64	27.6	2.8	<0.10	Nil
WI4	12/10/2025	S	26.90	33.0	8.04	5.77	51.2	0.9	0.1	Nil
		B	26.80	33.0	8.01	5.56	48.0	0.7	<0.10	Nil
	17/10/2025	S	27.20	33.10	8.01	5.51	49.6	1.0	<0.10	Nil
		B	27.00	33.10	8.02	5.63	40.0	0.8	<0.10	Nil
	23/10/2025	S	28.20	32.00	8.08	6.54	43.2	1.2	<0.10	Nil
		B	28.20	32.30	8.12	6.20	44.4	1.0	<0.10	Nil
WI5	12/10/2025	S	26.50	32.80	8.07	5.98	10.0	0.1	<0.10	Nil
		B	26.30	32.90	8.07	5.72	8.4	0.2	<0.10	Nil
	17/10/2025	S	26.80	32.90	8.06	5.77	13.6	0.0	<0.10	Nil
		B	26.50	33.00	8.05	5.61	11.2	0.1	<0.10	Nil
	23/10/2025	S	27.50	31.70	8.28	6.70	12.0	0.0	<0.10	Nil
		B	27.20	32.10	8.15	5.99	10.0	0.0	<0.10	Nil
WI6	12/10/2025	B	26.50	32.90	8.04	5.74	20.0	1.3	<0.10	Nil

Table 11 Results of Water Quality Monitoring

Site	Date	-	Temp. (°C)	Salinity	pH	DO (mg/l)	SS (mg/l)	T-N (mg/l)	T-P (mg/l)	Coliforms (CFU/100ml)
		S	26.60	33.00	8.04	5.64	16.4	1.0	<0.10	Nil
	17/10/2025	S	27.00	33.0	8.10	5.71	22.0	1.1	<0.10	Nil
		B	26.80	33.0	8.09	5.75	19.2	1.4	<0.10	Nil
	23/10/2025	S	27.20	33.10	8.04	5.43	24.0	0.9	<0.10	Nil
		B	27.50	33.10	8.02	5.33	21.6	1.6	<0.10	Nil
WI7	12/10/2025	S	26.60	32.70	8.04	5.52	12.0	1.1	0.1	10.0
		B	26.60	32.90	0.03	5.54	14.8	0.7	<0.10	10.0
	17/10/2025	S	27.70	33.20	8.03	5.27	16.8	0.8	<0.10	10.0
		B	27.40	33.20	8.02	5.23	20.4	1.2	<0.10	10.0
	23/10/2025	S	27.20	33.20	7.97	5.01	20.0	0.6	<0.10	Nil
		B	27.50	33.30	7.98	5.04	20.0	1.0	<0.10	Nil
WI8	12/10/2025	S	27.30	32.30	7.93	4.93	48.0	1.0	<0.10	Nil
		B	27.20	33.20	7.90	4.90	25.6	0.6	<0.10	10.0
	17/10/2025	S	28.20	33.60	7.94	5.71	49.2	1.1	<0.10	10.0
		B	28.20	33.70	7.92	5.36	28.8	0.9	<0.10	10.0
	23/10/2025	S	28.40	33.80	7.85	4.55	44.4	1.2	<0.10	10.0
		B	28.40	33.80	7.85	4.54	29.2	0.6	<0.10	10.0
WIR1	12/10/2025	S	26.20	30.90	8.10	5.90	44.4	0.4	<0.10	10.0
		B	26.20	30.90	8.10	5.84	40.0	0.2	<0.10	10.0
	17/10/2025	S	26.50	32.80	8.13	6.55	33.6	0.6	<0.10	10.0
		B	26.50	32.90	8.13	6.6.5	30.0	0.5	<0.10	Nil
	23/10/2025	S	26.80	32.60	7.98	5.53	28.0	0.9	<0.10	Nil
		B	-	-	-	-	-	-	-	-
WIR2	12/10/2025	S	25.90	31.10	8.09	5.99	18.8	0.7	<0.10	Nil
		B	25.90	31.10	8.09	5.91	20.0	0.5	<0.10	Nil
	17/10/2025	S	26.70	32.80	8.18	7.39	29.6	0.5	<0.10	Nil
		B	26.70	32.90	8.18	7.60	27.2	0.3	<0.10	Nil
	23/10/2025	S	26.90	32.90	8.09	5.58	30.0	0.3	<0.10	Nil
		B	27.0	32.90	8.06	5.60	29.2	0.0	<0.10	Nil
WIR3	12/10/2025	S	25.70	31.0	8.06	6.05	24.0	0.3	<0.10	Nil
		B	25.70	31.0	8,06	6.01	26.8	0.5	<0.10	Nil

Table 11 Results of Water Quality Monitoring

Site	Date	-	Temp. (°C)	Salinity	pH	DO (mg/l)	SS (mg/l)	T-N (mg/l)	T-P (mg/l)	Coliforms (CFU/100ml)
	17/10/2025	S	27.00	3290	8.21	7.39	16.0	0.2	<0.10	Nil
		B	27.00	33.00	8.21	7.51	22..0	0.4	<0.10	Nil
	23/10/2025	S	28.0	33.0	8.34	7.25	17.6	0.4	<0.10	Nil
		B	-	-	-	-	-	-	-	-
WIR4	12/10/2025	S	25.80	30.50	8.04	6.02	20.0	0.4	<0.10	Nil
		B	25.80	30.50	8.04	5.99	14.8	0.2	<0.10	Nil
	17/10/2025	S	27.40	32.90	8.21	7.10	24.0	0.2	<0.10	Nil
		B	27.40	32.90	8.21	7.29	19.2	0.1	<0.10	Nil
	23/10/2025	S	27.0	33.0	8.26	7.19	26.0	0.1	<0.10	Nil
		B	-	-	-	-	-	-	-	-
WOR3	12/10/2025	S	26.30	31.70	8.25	7.00	11.2	0.4	<0.10	Nil
		B	26.30	31.60	8.25	6.95	15.6	0.7	<0.10	Nil
	17/10/2025	S	28.80	31.80	8.19	6.92	10.6	0.5	<0.10	Nil
		B	26.40	31.80	8.21	6.60	21.6	0.6	<0.10	Nil
	23/10/2025	S	27.50	31.70	8.18	6.97	11.2	0.3	<0.10	Nil
		B	27.20	32.10	8.22	6.47	16.4	0.8	<0.10	Nil
WOR4	12/10/2025	S	25.80	30.19	8.21	7.10	19.6	0.5	<0.10	Nil
		B	26.10	30.20	8.23	7.06	29.2	0.3	<0.10	Nil
	17/10/2025	S	26.90	31.90	8.20	6.88	24.8	0.4	<0.10	Nil
		B	26.50	31.80	8.21	6.70	27.2	0.3	<0.10	Nil
	23/10/2025	S	27.10	31.70	8.20	7.00	26.0	0.2	<0.10	Nil
		B	26.40	31.90	8.22	6.03	28.8	0.5	<0.10	Nil
WOR5	12/10/2025	S	26.60	31.60	8.22	7.01	8.0	0.6	0.5	20
		B	26.70	31.60	8.23	7.04	16.4	0.4	0.3	Nil
	17/10/2025	S	26.60	31.0	8.20	7.07	10.0	0.9	0.2	10.0
		B	26.50	31.80	8.21	6.22	6.0	0.7	0.1	10.0
	23/10/2025	S	27.10	31.90	8.85	6.86	13.9	0.8	0.1	10
		B	26.40	31.90	8.02	6.92	9.2	0.5	<0.10	Nil
WOR6	12/10/2025	S	25.90	31.30	8.24	7.10	12.0	0.1	<0.10	Nil
		B	25.80	31.40	8.24	7.06	8.0	0.1	<0.10	Nil

Table 11 Results of Water Quality Monitoring										
Site	**Date**	**-**	**Temp. (°C)**	**Salinity**	**pH**	**DO (mg/l)**	**SS (mg/l)**	**T-N (mg/l)**	**T-P (mg/l)**	**Coliforms (CFU/100ml)**
	17/10/2025	S	26.50	31.40	8.19	7.40	11.2	0.3	<0.10	Nil
		B	26.50	31.80	8.22	6.76	7.6	0.0	<0.10	Nil
	23/10/2025	S	26.90	31.70	8.20	6.75	12.0	0.1	<0.10	Nil
		B	26.40	31.80	8.23	6.58	8.0	0.0	<0.10	Nil
WOR7	12/10/2025	S	26.10	31.20	8.21	7.1	15.6	0.9	<0.10	Nil
		B	26.20	31.30	8.21	7.02	20.0	0.6	<0.10	Nil
	17/10/2025	S	26.60	31.60	8.23	7.1	12.0	1.0	<0.10	Nil
		B	26.50	31.80	8.23	6.96	16.4	0.8	<0.10	Nil
	23/10/2025	S	26.90	31.70	8.37	6.94	15.6	1.1	<0.10	Nil
		B	25.70	31.60	8.29	6.31	16.0	1.0	<0.10	Nil

3.3. CORAL

3.3.1. Objective

Coral monitoring was conducted to confirm whether dredging and disposal activities caused any adverse impacts on corals.

3.3.2. Method

Table 12 outlines the method of coral monitoring. Figure 3 shows the coral monitoring sites.

Table 12 Method of Coral Monitoring

Parameters	Hard coral coverage, algae coverage, bleaching, sedimentation, Abundance of Drupella spp. and Acanthaster planci, coral health (e.g., discoloration, mucus secretion, disease)
Method	Quadrat survey (10 x 10 m and 1 x 1 m)
Frequency	Once every 2 weeks during dredging works
Location	Inner reef: 2 sites (C1-C2) Outer reef: 2 sites (C3-C4)
Reference standard	Dredging/disposal method will be reconsidered in case adverse impacts on corals (e.g., reduction of coral coverage, significant bleaching, excessive mucus secretion, sedimentation) are observed through the monitoring.

Figure 3 Coral monitoring sites

3.3.3. Results and Discussion

Table 13 and Table 14 **s**how the results of coral monitoring.

Coral monitoring results show that so far, there are no observable impacts on corals at the 4 monitoring sites. Collected empirical datasets and pictorial observations support this. This observation is in sync with water quality turbidity and general water quality results.

Table 13 Results of Coral Monitoring

Site	Date	Hard coral cover (%)	Algae cover (%)	Bleaching (%)	*Drupella* sp. (Y/N)	*Acanthaster planci* (Y/N)	Discoloration (Y/N)	Mucus secretion (N/L/M/H)	Disease (N/L/M/H)	Sédimentation (N/L/M/H)
C1	Baseline 2025/06/25	8%	50%	0%	N	N	N	N (0%)	L	L (6.25%)
	Monitoring-1 2025/10/25	7.5%	58%	0%	N	N	N	N(0%)	L (9%)	L (5%)
C2	Baseline 2025/06/25	8%	41%	5%	N	N	N	N	L	L (5%)
	Monitoring-1 2025/10/25	8%	53%	0%	N	N	N	N	L (6%)	L (9%)
C3	Baseline 2025/06/24	21%	51%	0%	N	N	N	N	N	L (5%)
	Monitoring 1 2025/10/24	17%	73%	0%	N	N	Y (5%)	N	L (5%)	L (5%)
C4	Baseline 2025/06/24	27%	36	0%	N	N	N	N	N	N
	Monitoring 1 2025/10/24	26%	63%	0%	N	N	N	L (5%)	L (5%)	L (5%)

N: None, L: Low, M: Medium, H: High

Table 14 Photos of Coral Monitoring

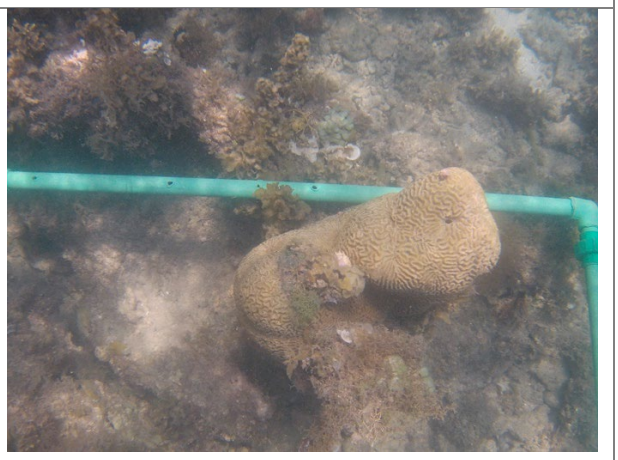
C1 – Coral Carden (Inner Reef)

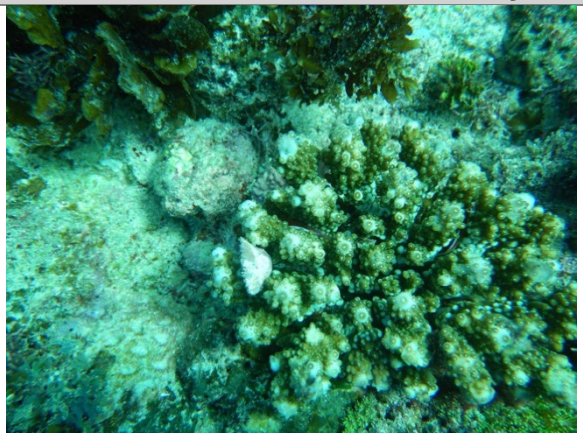
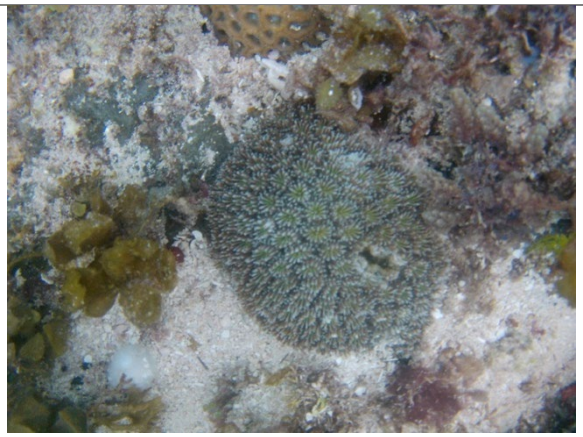
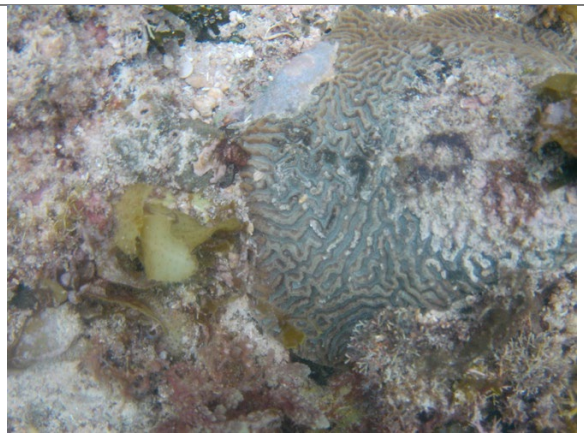
Baseline- 2025/06/24 & 25

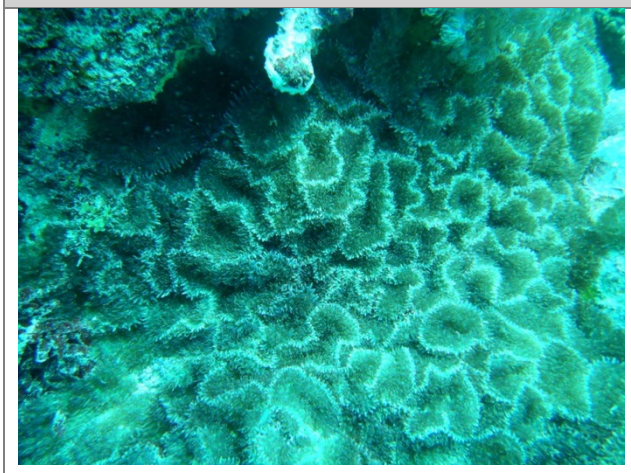
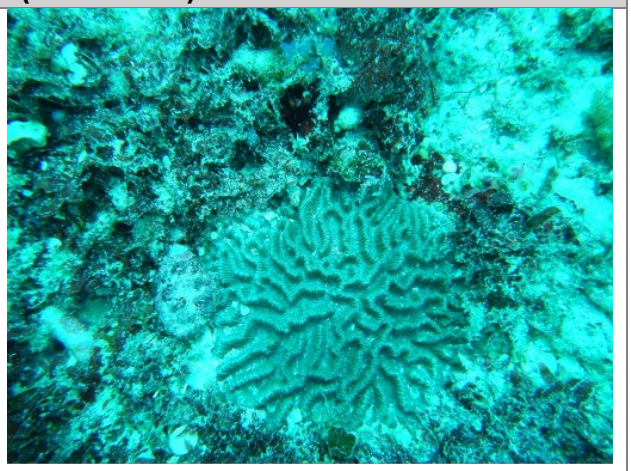
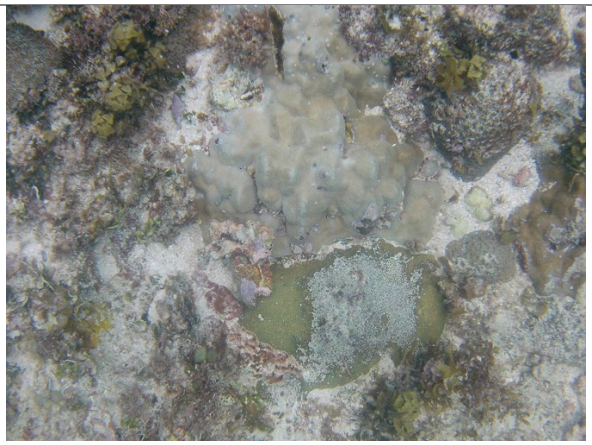
Baseline- 2025/06/24 & 25

Monitoring 1 - 2025/10/24 & 25

Monitoring 1 - 2025/10/24 & 25

C2 Marine Reserve (Inner Reef)	
	
Baseline- 2025/06/24 & 25	**Baseline- 2025/06/24 & 25**
	
Monitoring 1 - 2025/10/24 & 25	**Monitoring 1 - 2025/10/24 & 25**

C3 Shelly Beach (Outer Reef)	
	
Baseline- 2025/06/24 & 25	**Baseline- 2025/06/24 & 25**
	
Monitoring 1 - 2025/10/24 & 25	**Monitoring 1 - 2025/10/24 & 25**

C4 Shika Adabu (Outer Reef)	
	
Baseline- 2025/06/24 & 25	**Baseline- 2025/06/24 & 25**
	
Monitoring 1 - 2025/10/24 & 25	**Monitoring 1 - 2025/10/24 & 25**

3.4. SEAGRASS

3.4.1. Objective

Seagrass monitoring was conducted to confirm whether dredging and disposal activities have caused any adverse impacts on seagrass.

3.4.2. Method

Table 15 outlines the method of seagrass monitoring. Figure 4 shows the seagrass monitoring sites.

Table 15 Method of Seagrass Monitoring	
Parameters	Seagrass coverage, algae coverage, sedimentation
Method	Quadrat survey (10 x 10 m and 1 x 1 m)
Frequency	Once every 2 weeks during dredging works
Location	Inner reef: 4 sites (S1-S4)
Reference standard	Dredging disposal method shall be reconsidered in case adverse impacts on seagrass (e.g., reduction of seagrass coverage, sedimentation) are observed through the monitoring.

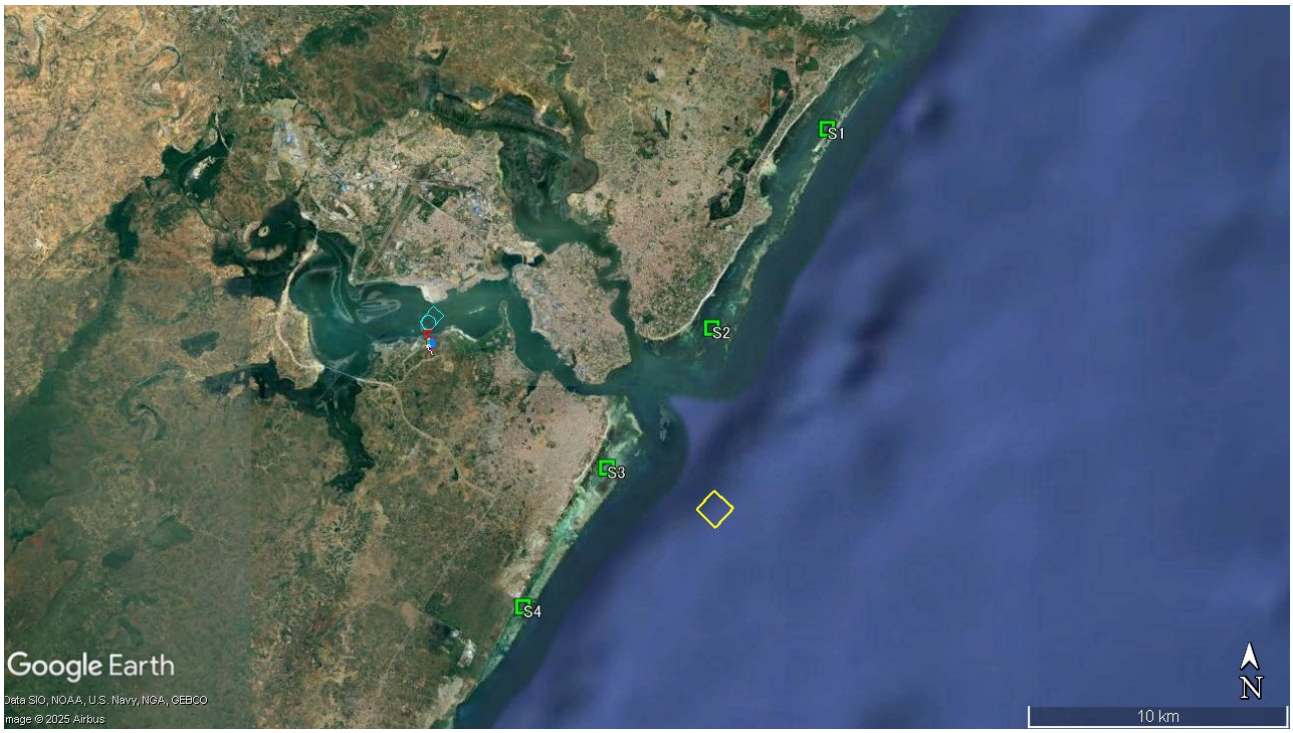


Figure 4 Seagrass monitoring sites

3.4.3. Results and Discussion

Table 16 and Table 17 show the results of seagrass monitoring.

Seagrass monitoring results show that so far, there are no observable impacts on seagrass beds at the 4 monitoring sites. Collected empirical datasets and pictorial observations support this. This observation is in sync with water quality turbidity and general water quality results.

Table 16 Results of Seagrass Monitoring

Site	Date	Seagrass cover (%)	Algae cover (%)	Sédimentation (Visual) (N/L/M/H)
S1 (CG)	**Baseline June 23 – 27, 2025**	TC = 100	0	N
	Monitoring - 1 2025/10/24	TC = 100	0	N
S2 (MR)	**Baseline June 23 – 27, 2025**	TC = 90	0	N
	Monitoring - 1 2025/10/24	TC = 80	0	N
S3 (SB)	**Baseline June 23 – 27, 2025**	TH = 70	5	L
	Monitoring - 1 2025/10/25	TH = 50	5	L
S4 (CFG)	**Baseline June 23 – 27, 2025**	TC = 90	0	N
	Monitoring - 1 2025/10/25	TC = 100	0	N

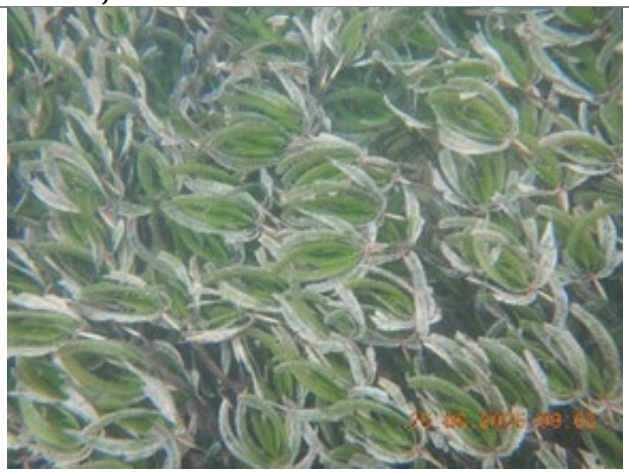
N: None, L: Low, M: Medium, H: High

Table 17 Photos of Seagrass Monitoring

S1 Coral Garden (CG)

Baseline June 23 – 27, 2025

(10 x 10m)



(0.5 x 0.5m)

Monitoring 1 on 2025/10/24

(10 x 10m)

(0.5 x 0.5m)

S2 Marine Reserve (MR)

Baseline June 23 – 27, 2025

(10 x 10m)

(0.5 x 0.5m)

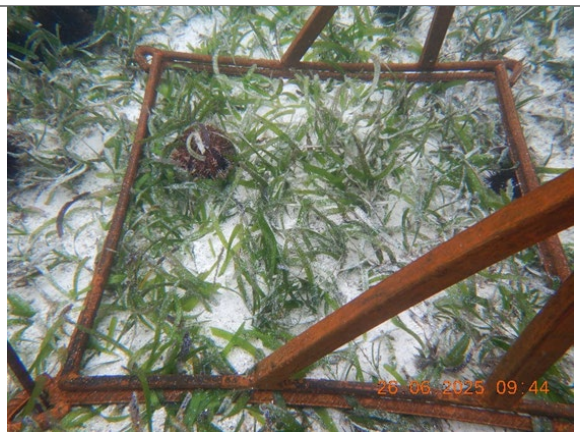
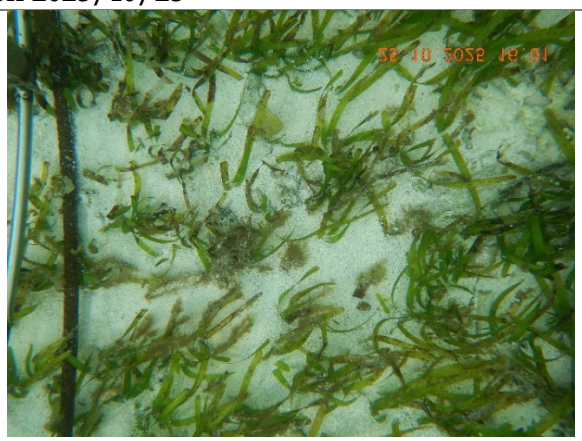
Monitoring 1 on 2025/10/24

(10 x 10m)

(0.5 x 0.5m)

S3 (Shelly Beach SB)

Baseline June 23 – 27, 2025

 (10 X 10m)	 (0.5 X 0.5m)
Monitoring 1 on 2025/10/25	
 (10 X 10m)	 (0.5 x 0.5m)
S4Calcium Fishing Ground (CFG)	
Baseline June 23 – 27, 2025	
 (10 X 10m)	 (0.5 X 0.5m)
Monitoring 1 on 2025/10/25	

(10 X 10m)

(0.5 x 0.5m)

4. WASTE MANAGEMENT

Table 18 Record of Waste Management

Waste type		Generated volume	Source	Management method
Hazardous	Waste oil	Nill	Nill	Nill
Non-hazardous	Domestic			
	General Waste	160kg	Food, paper, plastic and sanitary	Collected by and incinerated at Saimbot Ship's Contractors Ltd

5. PUBLIC AWARENESS

Continuous stakeholders' consultations, mainly the administrators and the local community leaders, were ongoing. The key issues address includes local labour recruitment and employment. In this regard, a meeting was held with part of the community recruitment committee mandated to coordinate locals' recruitment. The procedures to be followed whenever there were open employment opportunities within the project were deliberated and agreed on. Key stakeholders consulted included the local administrator and KFS in regard to various issues of concern such as community labour recruitment processes and mangrove management among others. Going forward, the contractor will continue targeted and need based consultation and engagement whenever there is a need.

Table 19 Key Stakeholder Meetings Summary Attendance Details				
No	**Stakeholder**	**Location**	**Date**	**Attendance**
1	Mombasa leaders	ACK Likoni	18/08/25	44
2	Kwale Leaders	Leopard Beach Resort	19/08/25	34
3	BMU Leaders	ACK Likoni	20/08/25	40

Table 20 Public Sensitization Meetings Summary Attendance Details				
No	**Stakeholder**	**Location**	**Date**	**Attendance**
1	Dongo Kundu Area Residents	DCC Office Dongo Kundu	25/08/25	668
2	Tsunza Area Residents	Tsunza	27/08/25	336
3	Lutsangani area residents	Lutsangani	27/08/25	396
4	Mteza Area Residents	Mteza	28/08/25	331

Table 21 Summary of the Key Issues Raised in the Meetings and the Responses		
Issue	**Key Concerns Raised by Stakeholders**	**Project Response**
Employment & Local Economic Opportunities	-Priority for local youth in skilled & unskilled jobs. -Requests for fair, open, and transparent recruitment. -BMUs asked for quotas (e.g., 10 members per BMU).	Contractor (TOA) committed to source 60% of unskilled labour locally and prioritize skilled locals, with emphasis on transparent/fair recruitment processes.
Environmental & Social Impacts	-Marine: Impacts on corals, seagrass, water quality, oil spill preparedness, and fishing grounds.	Contractor/Subcontractor pledged dust suppression, daytime trucking, and improvement of drainage works. KPA clarified

	-Terrestrial: Dust from haulage trucks, safety of pedestrians & school children, traffic congestion, and noise. -Riverine: Concerns about riverbed deepening and community safety during sand harvesting. - safety management for locals and road users within trucking routes	tarmacking is under KeNHA/County Gov't. KPA Experts had confirmed that dredging impacts were limited to ~4 months on fishing grounds. Installation of safety measures such as temporary bumps, signage, use of traffic marshals, sensitization of the public, enforcement of speed limits and training of drivers
Compensation, Resettlement & Land Issues with MSEZ project area	-Delays in PAPs compensation (99.5% complete, but some pending). -BMUs questioned adequacy of fisheries compensation. -Poor resettlement site roads. -	– Finalization on PAPs compensation was ongoing – KPA had explained that the fisheries impact assessment indicated that dredging impacts would be limited to 4months though the dredging may be done for a longer period – KPA explained basis of compensation; noted Mtongwe BMU payment halted by court dispute. – Improvement of the road network within resettlement sites shall be completed
Governance, Communication & Grievance Management	-Strong demand to dissolve existing PAPs committee (loss of trust with the resettlement committees). -Call for a new, transparent GRC election and formation. -Stakeholders asked for streamlined grievance communication process and timely project info updates.	Project GRCs shall be reconstituted through the administration offices; project communication to be strengthened. Leaders urged to rely project official meetings and channels for accurate info.
Community Development & CSR	-Requests for road tarmacking, streetlights, toilets, piped water, and a police station.	Interested community groups to officially request for

	-Education support: scholarships, school fences, labs. -Community support: tents for women's groups, Bodaboda shade, football sponsorship. - leaders stressed fair sharing of project benefits	assistant from KPA CSR department; Applications shall be reviewed fairly; and allocations will depend on merit and available budget. Other government departments and agencies have assigned responsibilities to specific developments
Identity & Heritage (Leaders' Issues)	-Kwale County stakeholders questioned project name ("Mombasa SEZ" vs. "Kwale SEZ"). -Concerns about access to Kaya sacred sites with KD1 site.	MSEZ is within Mombasa County though within proximity of Kwale County KPA committed to consult Kaya elders;
Business community & Industry Interests	-Clarification on utilities (water, power) timelines with MSEZ site -Project commencement dates. -Land allocation for investors. -More detailed project descriptions needed.	KPA provided updates; emphasized on timely detailed project briefs for investors among other stakeholders Project commencement date shall be done procedurally by the contracting authorities The project shall adopt Continuous stakeholder engagement principles
Other issues	Local land injustices raised in Tsunza, Lutsangani & Mteza by the local community	County Commissioner assured ongoing government efforts to resolve the land injustices and disputes.

6. HERITAGE

There were no reported cultural and heritage aspects including Chance Find related recovery.

7. GRIEVANCES

Table 22 Record of Grievances			
Date	**Complainant**	**Description of Grievance**	**Actions Taken**
Oct 2025	Community	Lack of employment opportunities for locals	Use of community constituted committee to coordinate employment for locals