

An aerial photograph of a coastal town and harbor. The town is built on a hillside, with a dense cluster of buildings. A harbor with several boats is visible, and a beach is at the bottom left. The image is partially covered by a white curved shape on the right side.

COMPANY PROFILE 2025



The sea _____ our responsibility

FISHING PORTS

www.seatec-sarl.com

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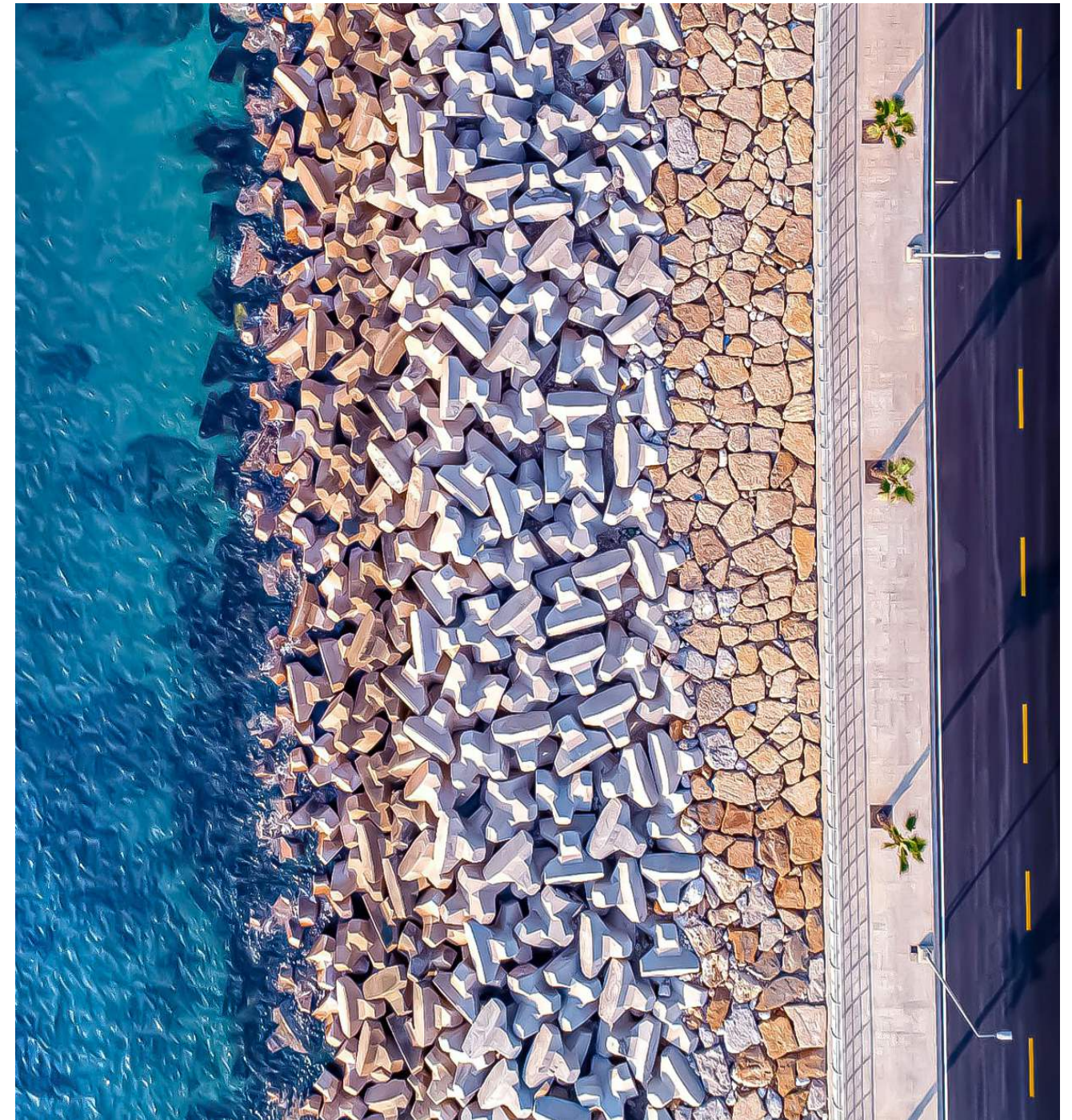
Press on Links to navigate to page

SEATEC

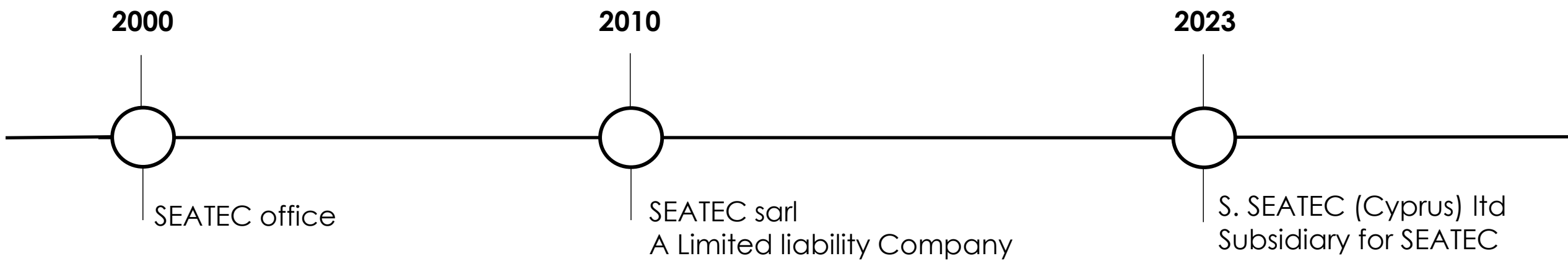
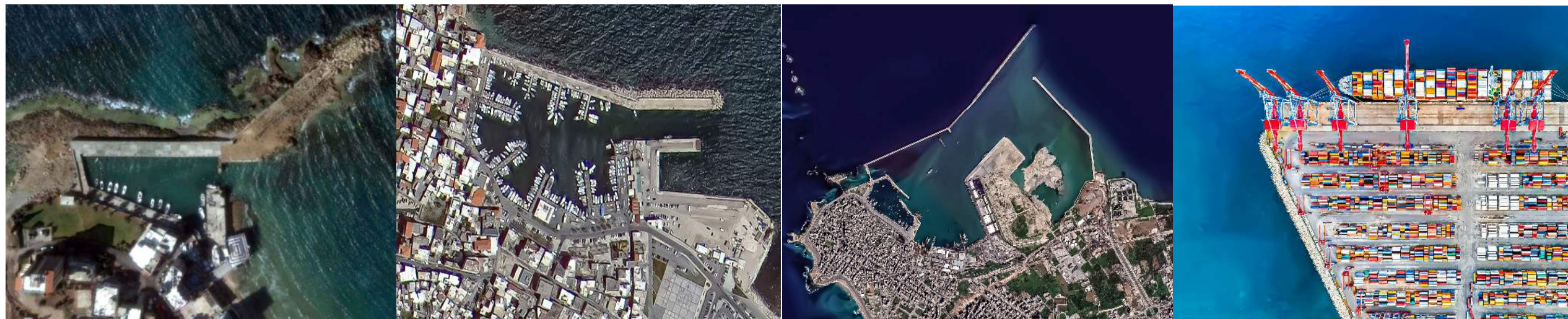
provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, master planning, numerical modeling, tender and detailed design, feasibility and EIA studies, permitting, construction planning, management and supervision.

Serving public as well as private sectors since 2000, SEATEC sarl is dedicated to give its clients the best engineering assistance.

SEATEC sarl operates in the EU territory through its subsidiary in Cyprus, S. SEATEC (Cyprus) Ltd.



COMPANY HISTORY



PROJECTS LOCATION



Countries ●	
Middle East	AFRICA
Lebanon	Egypt
Jordan	Libya
Syria	Tunis
GULF	Algeria
UAE	Djibouti
KSA	Ivory Coast
Qatar	Cameroon
Oman	Nigeria
ASIA	EUROPE
India	Cyprus

GET IN TOUCH WITH US

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HEAD OFFICE

SEATEC sarl

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31 Ernest Renan St.,
PC 4504 Byblos, LEBANON

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Fax : +961 9 55 00 44
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Web : www.seatec-sarl.com
E-mail : seatec@seatec-sarl.com

SUBSIDIARY OFFICE

S. SEATEC (CYPRUS) Ltd

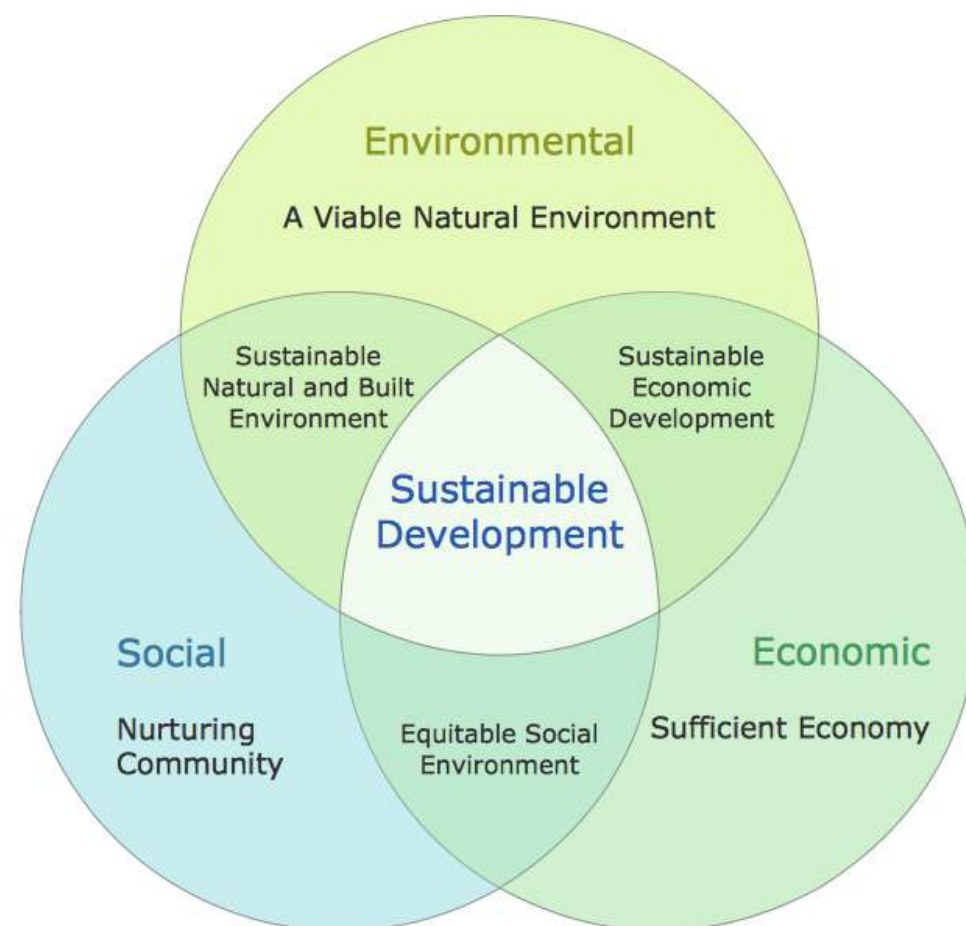
Michail Olympiou, 26 Dali,
2540 Nicosia, CYPRUS



VISION 01

SUSTAINABLE ENGINEERING SOLUTIONS

"Leading the way in creating sustainable and resilient engineering solutions that harmonize with nature and withstand the test of time"



VISION 02

ECO-FRIENDLY AND GREEN PRACTICES

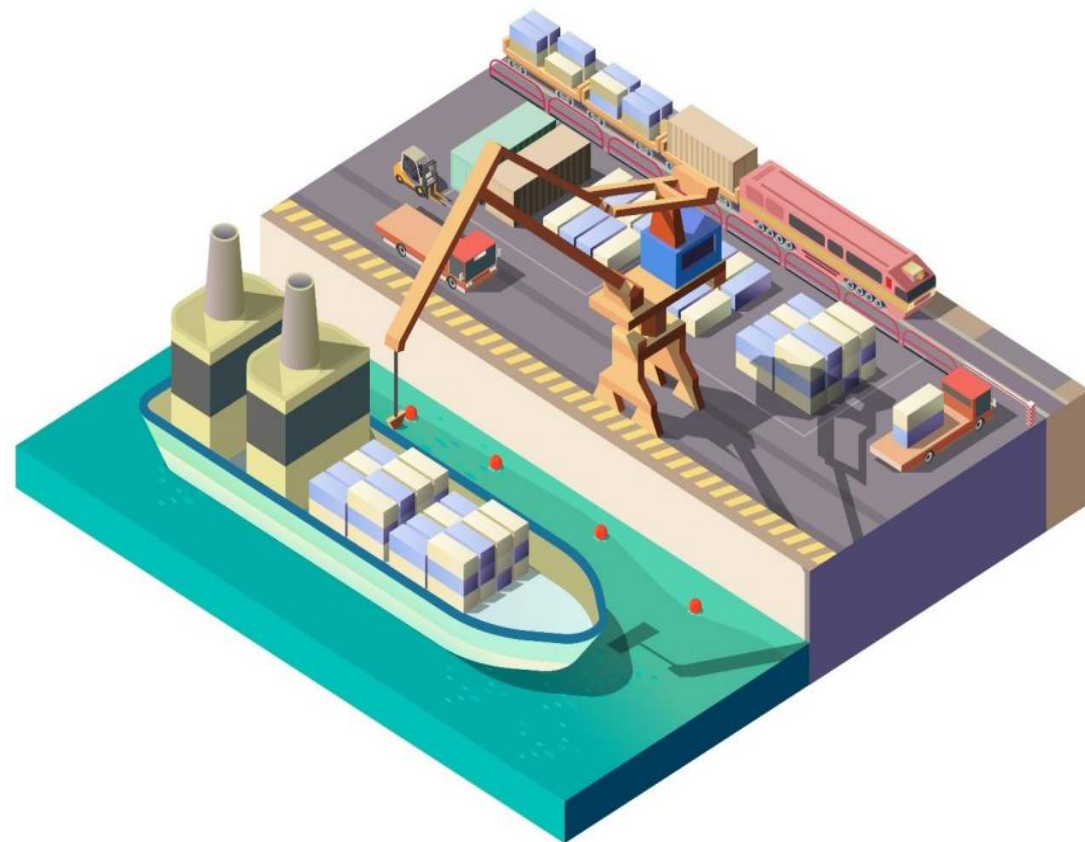
"Pioneering eco-friendly and green solutions that preserve coastlines and promote a sustainable future for generations to come"



VISION 03

SMART PORTS

"Transforming ports into smart, efficient, and interconnected hubs that drive global trade and economic growth".



VISION 04

INNOVATIVE COASTAL DEVELOPMENTS

"Fostering innovative coastal developments that boost local economies and enhance the quality of life for coastal communities".



INTRO

SERVICES

SEATEC sarl (www.seatec-sarl.com) is a multi-disciplinary engineering company, operating since 2000, mainly specialized in the design and supervision of coastal and ports projects, covering :

- Ports: commercial, cruise, marinas, fishing, industrial, naval bases...
- Specialized Terminals: Containers, general cargo, bulk, Agri bulk, oil and gas...
- Urban Waterfronts developments
- Coastal protections
- Dredging and reclamation works
- Beaches (protection and artificial nourishment)
- Offshore pipelines (outfalls, intake pipes...)
- Mooring structures, ship lifts
- Marine infra (Breakwaters, quay walls, platforms, slipways...)



CAPACITY OF THE COMPANY

9

SERVICES

SEATEC offers a range of services through an experienced team in coastal and port engineering field :

- Site selection and evaluation
- Topographic and bathymetric survey
- Underwater inspection
- Rehabilitation of existing infrastructure
- Development of new infrastructure and facilities
- Master planning (future development) and phasing
- 3D presentations (views and videos)
- Feasibility studies
- Design optimization
- Design review /value engineering
- Preliminary and detailed design
- Execution drawings
- Numerical modelling
- Environmental Impact Assessment (EIA) studies
- Permitting and consents from relevant public authorities
- Tender documents
- Assistance to clients in selection of contractors



SERVICES

- Supervision services, management and supervision of construction sites in accordance with health and safety guidelines, through an experienced team of site engineers, supervisors, surveyors and divers
- Supervising contractors, subcontractors and work activities
- Compliance of executed works with the relevant building regulations, quality standards
- Construction permit and with the specified technical documentation and guidelines
- Issuing of information and instructions on behalf of the client
- Validate of contractor's payments
- Hazards and risks assessment and Prevention of construction errors
- Carrying out regular inspections and raising safety concerns at the appropriate level
- Keeping construction on schedule, construction errors
- Completing records for site reports
- Resolving problems and implementing improvements
- Works handing over certificate



OUR TEAM

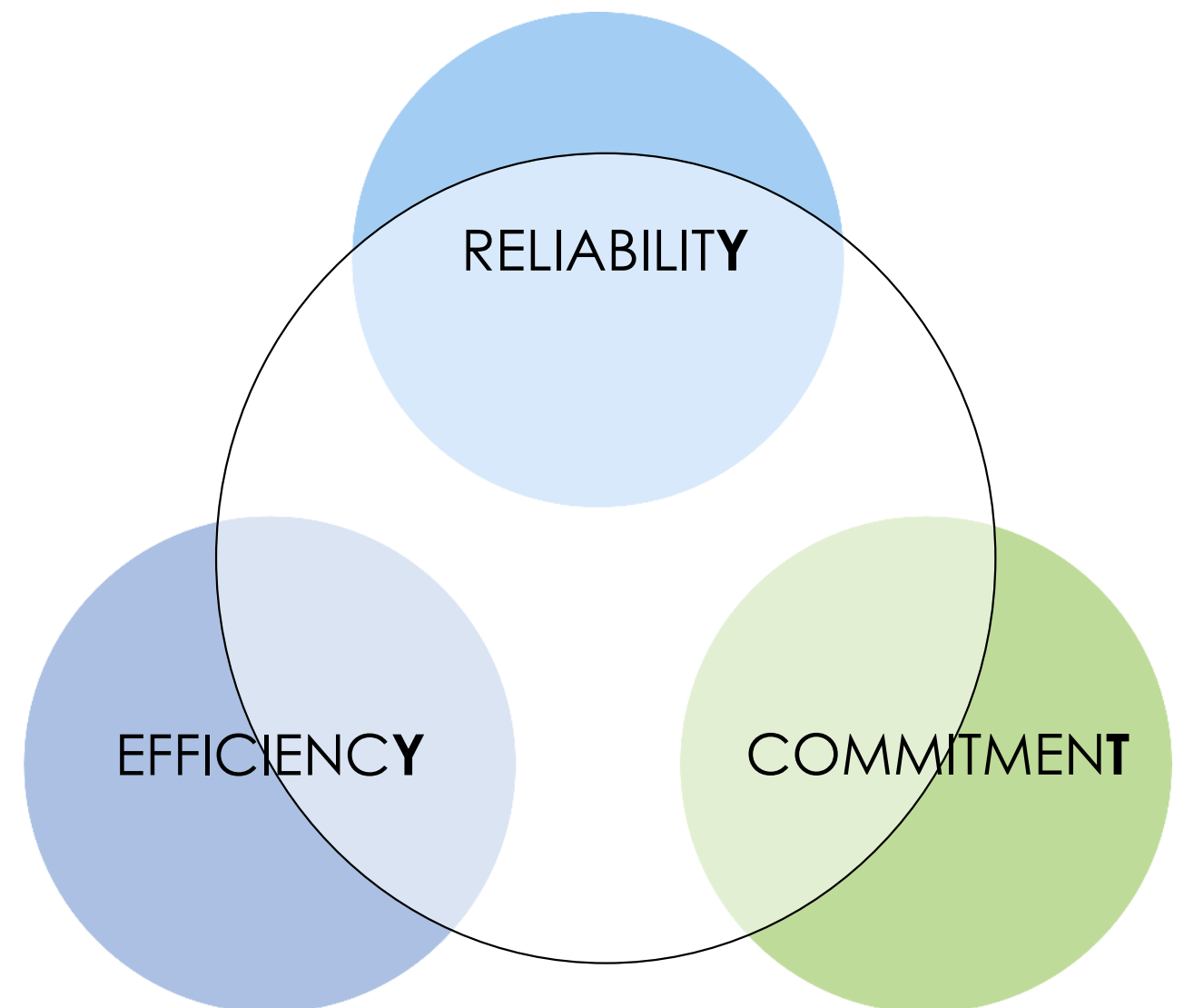
SEATEC have an experienced Team for in house design, covering all coastal and ports engineering aspects, geotechnical analysis, numerical modeling, works supervision..., keeping an excellent cooperation with leading European maritime and hydraulic laboratories for 2D/3D physical modeling.

A strong team spirit with the Client will be essential, working as part of a single entity rather than as competent individuals.

The team of experts is mostly composed of people involved in our recent projects, carefully selected for their:

- Experience in the field of expertise
- Efficiency
- Experience in working with each other
- Ability to advise both public and private Clients

Moreover, SEATEC can mobilize on short notice its technical resources when and where such expertise is needed.



OUR NUMBERS



SINCE
2000



COUNTRIES
+16



CLIENTS
+50



PROJECTS
+450

FISHING PORTS



DREDGING AT OKAYBE FISHING PORT

14

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Okaybe
34°03'29" N
35°38'31" E

Consultant SEATEC sarl

Dredging at Okaybe Fishing Port

Year 2024
Design / Surveying

- Dredging works of inner Port basin @ -2.50m MSL, of outer basin and entrance channel @ -4.00m MSL
- Topographic survey
- Bathymetric survey (33,700m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DREDGING AT DBAYEH FISHING PORT - 2

15

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

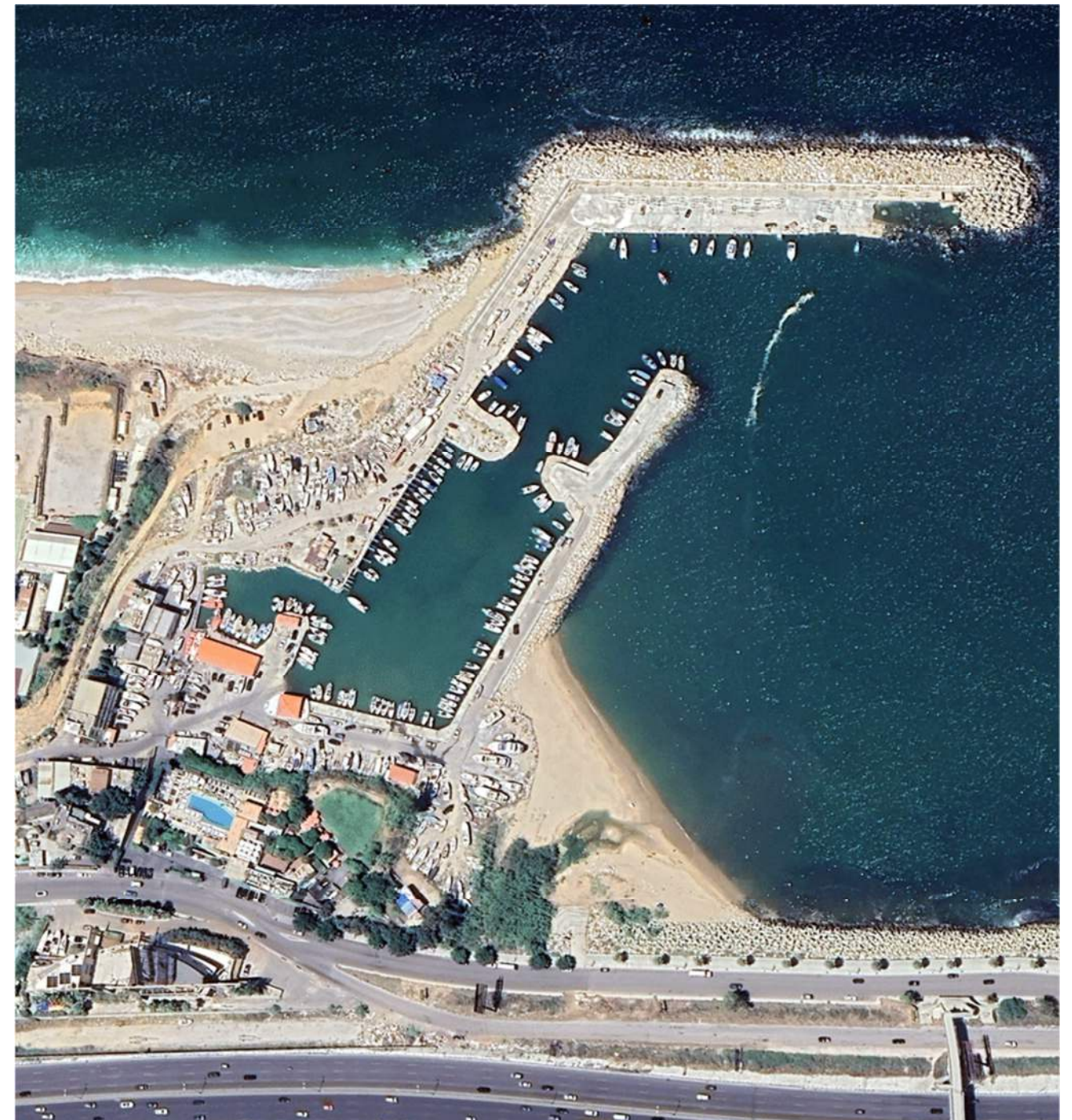
Location LEBANON – Dbayeh
33°56'38" N
35°35'22" E

Consultant SEATEC sarl

Dredging at Dbayeh Fishing Port - 2

Year 2024
Design / Surveying

- Dredging works of the Port inner basin @-1.50m, -2.00m and -3.00m, and of the outer basin and access channel @-4.00m and -5.00m MSL
- Topographic survey
- Bathymetric survey (109,300m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DORA FISHING PORT FENCE

16

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dora Fishing Port Fence

Year 2024
Design / Surveying

- Fence for the Port perimeter (L~1,220m)
- Steel Gates
- Lighting poles
- Asphalted Platforms (24,300m²)
- Security room
- Fishermen rooms (130m²)
- Topographic survey
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Surveying

DREDGING AT AABDEH FISHING PORT

17

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

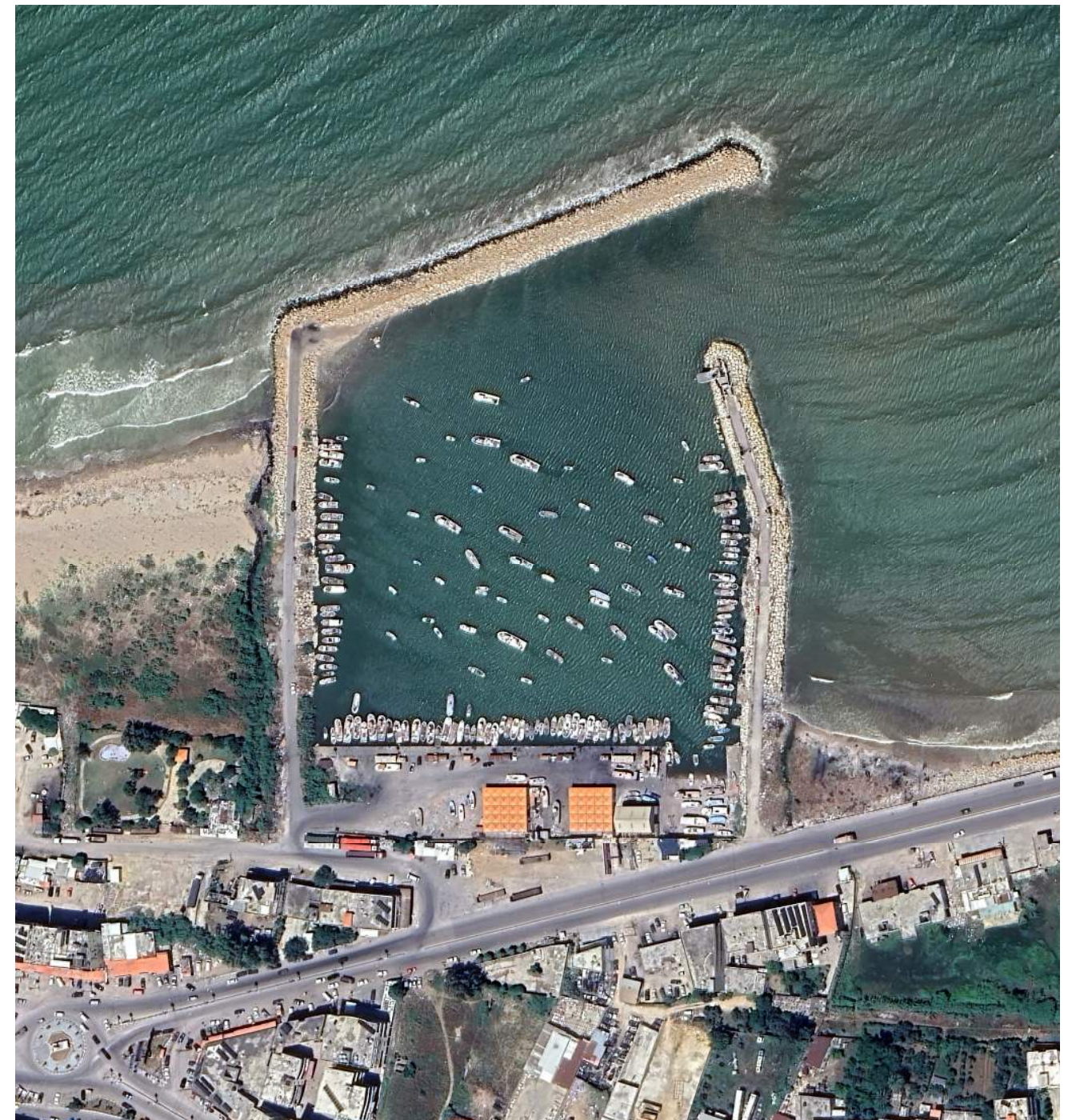
Location LEBANON – Aabdeh
34°31'13" N
35°58'40" E

Consultant SEATEC sarl

Dredging at Aabdeh Fishing Port

Year 2024
Design / Surveying

- Dredging works of inner Port basin @ -2.30m MSL, of outer basin and entrance channel @ -3.00m MSL (58,000m²)
- Bathymetric survey (65,000m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

SLIPWAY AT AMCHIT FISHING PORT

18

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Amchit
34°9'8" N
35°37'41" E

Consultant SEATEC sarl

Slipway at Amchit Fishing Port

Year 2022 – 2023
Design / Permitting

- Slipway (Fishing boat ramp)
- RC platform (320m²)
- RC retaining walls
- Fishermen rooms (30m²)
- Specifications / Drawings / BoQ / Permitting



Ports / Fishing Ports / Lift Structures / Slipways

KALAMOUN FISHING PORT ENTRANCE

19

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

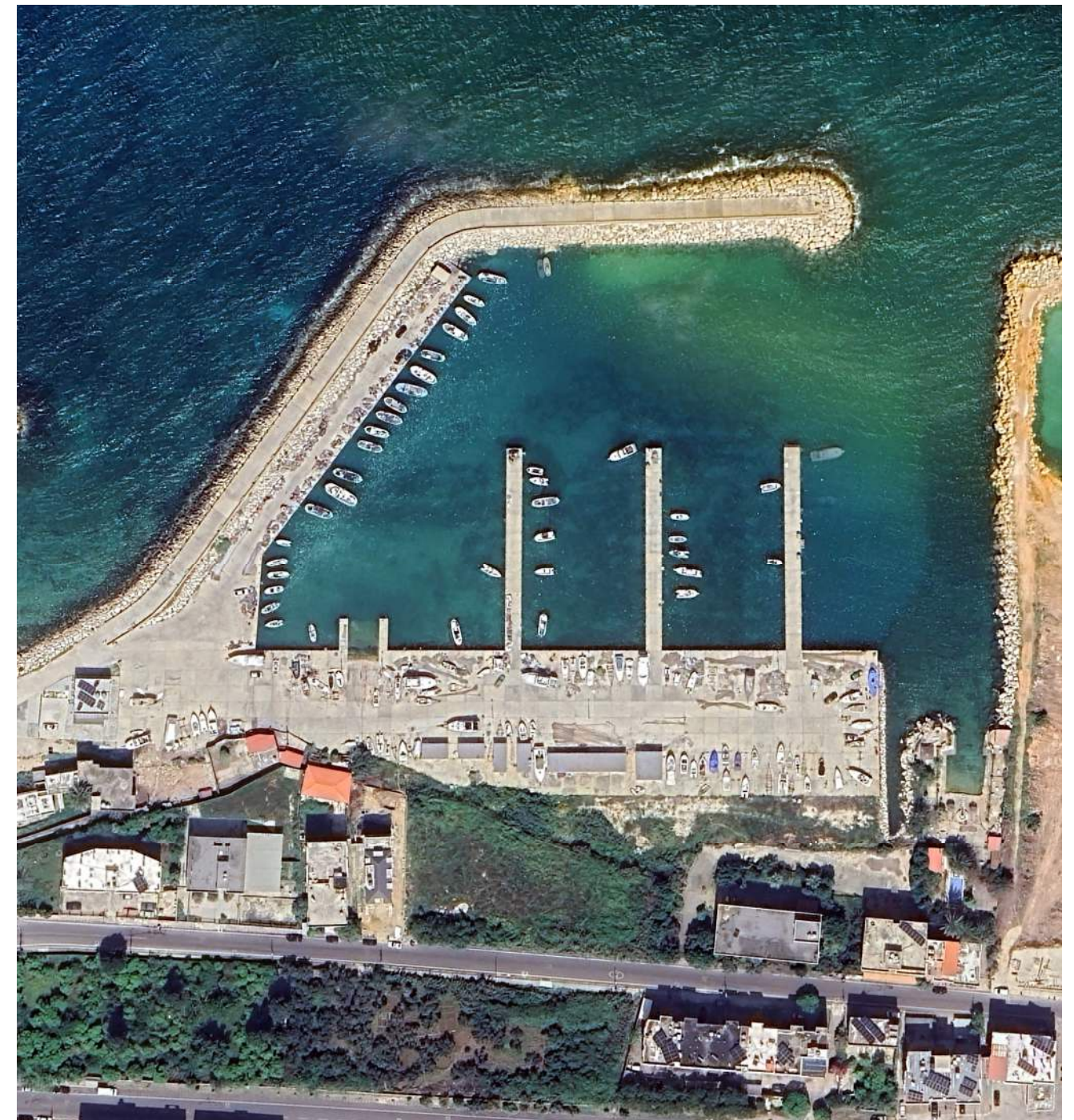
Location LEBANON – Kalamoun
34°23'25" N
35°47'15" E

Consultant SEATEC sarl

Kalamoun Fishing Port Entrance

Year 2021
Preliminary Design

- Assessment of inner basin agitation
- Concrete wall at the Port entrance (L=30m @-3.00m MSL) / underwater concrete blocks
- Finger Pier extension (Nbr=1; L=15m @-3.00m MSL) / underwater concrete blocks
- Drawings / BoQ



Ports / Fishing Ports

SAIDA PORT FISH MARKET PROTECTION

20

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

UNDP Lebanon (United Nation Development Program)

Location LEBANON – Saida
33°33'49" N
35°21'59" E

Consultant SEATEC sarl

Saida Port Fish Market Protection

Year 2020
Design / Surveying

- Coastal protection for the future fish market against waves attack
- RC curved seawall (L=208m)
- Reclaimed platform (4,800m²)
- Excavation for seawall foundation
- Topographic survey (15,800m²)
- Bathymetric survey (42,500m²)
- Tender Documents / Drawings / BoQ

Ports / Fishing Ports / Coastal Protections / Seawalls / Surveying



BERBARA FISHING PORT - 3

21

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Berbara
34°11'33" N
35°37'58" E

Consultant SEATEC sarl

Berbara Fishing Port - 3

Year 2019
Conceptual Design

- Demolition and removal of existing fishermen rooms
- RC platforms (860m²)
- Rehabilitation of existing RC seawall
- Rehabilitation of existing fishermen rooms and building of new ones (78m²)
- Fish market (54m²)
- Marine accessories (Mooring bollards, fenders, concrete weights, ladders)
- Infrastructure (Electrical and water supply)
- Waste water treatment plant
- AToN for port
- Drawings / Technical Specifications / BoQ

Ports / Fishing Ports / Coastal Protections / Seawalls



JIEH FISHING PORT – PHASE 2 (1/2)

22

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

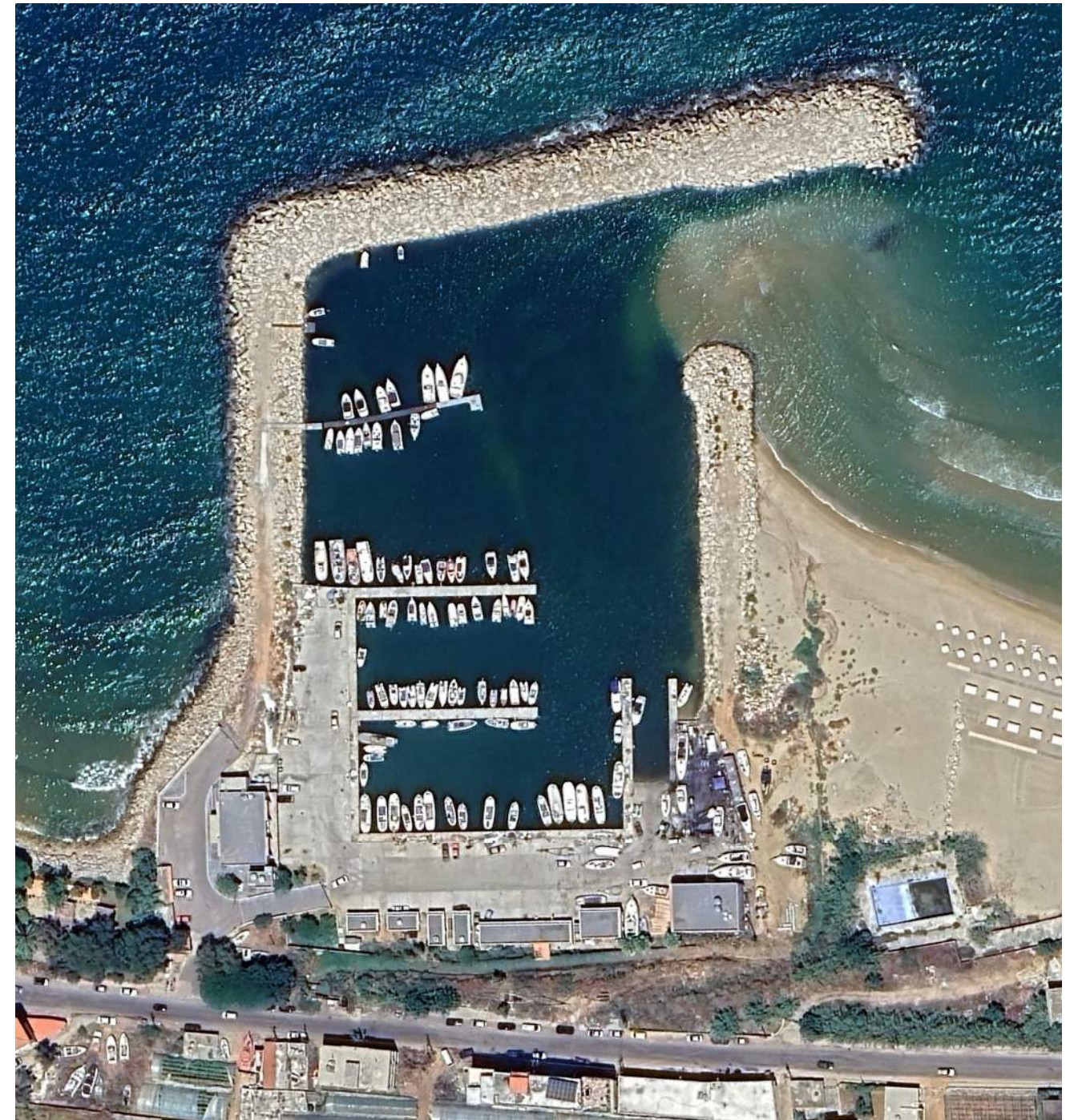
Location LEBANON – Jieh
33°39'06" N
35°24'44" E

Consultant SEATEC sarl

Jieh Fishing Port – Phase 2

Year 2019
Design / Surveying

- Extension works for the existing fishing port
- New Main Breakwater (Rubble mound type, L=308m @max -7.00m MSL, core material, rocky filter and 16m3 precast concrete Accropodes blocks Type I)
- Secondary Breakwater (Rubble mound type, L=75m @max-1.00m MSL, core material, rocky filter and armor layer)
- Dismantle and excavation of a part of the existing main breakwater (L=157m)
- Crown walls



Ports / Fishing Ports / Dredging / Surveying

Jieh Fishing Port – Phase 2

- Quaywalls (L=290m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=147m @-4.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=96m @-3.00m MSL, Nbr 2) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=48m @-4.50m MSL, Nbr 1) / Precast concrete blocks (Gravity QW)
- Basin dredging @-3.00m / -4.50m MSL
- Asphalted and concrete platforms
- Accessories (Mooring bollards, lighting and water supply)
- Additional berthing capacity (230 boats)
- Topographic survey (13,300m²)
- Bathymetric survey (408,800m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

JAL EL BAHER FISHING PORT (1/2)

24

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jal el Baher
33°54'07" N
35°28'31" E

Consultant SEATEC sarl

Jal el Baher Fishing Port

Year 2019
Design / Surveying

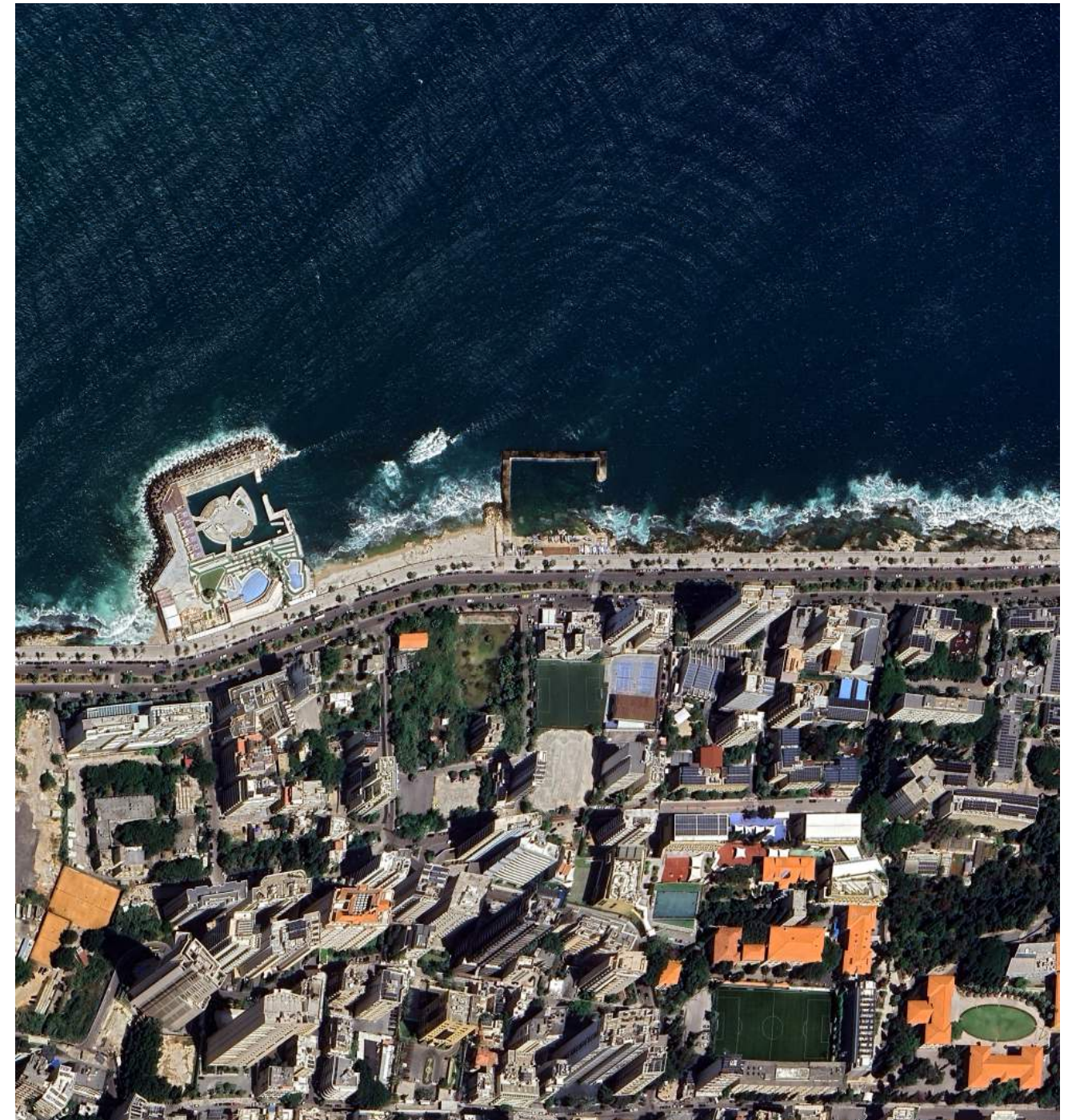
- Jal el Baher Fishing Port additional armoring
- Port layout
- Additional armoring for the existing low crested vertical concrete breakwater (L=216m @max -6.00m MSL) with core materials, rocky filter and 16m³ concrete Accropodes blocks Type I, to reduce waves overtopping discharges
- Rehabilitation of the existing breakwater foundations (underwater concrete)
- RC crown wall and platform (980m²)

Ports / Fishing Ports / Surveying



Jal el Baher Fishing Port

- Dredging works of breakwater toe @max -7.75m MSL
- Marine accessories (Mooring bollards)
- Topographic survey (1,400m²)
- Bathymetric survey (27,800m²)
- Berthing capacity (40 fishing boats)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Surveying

HALATE FISHING PORT – PHASE 1

26

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

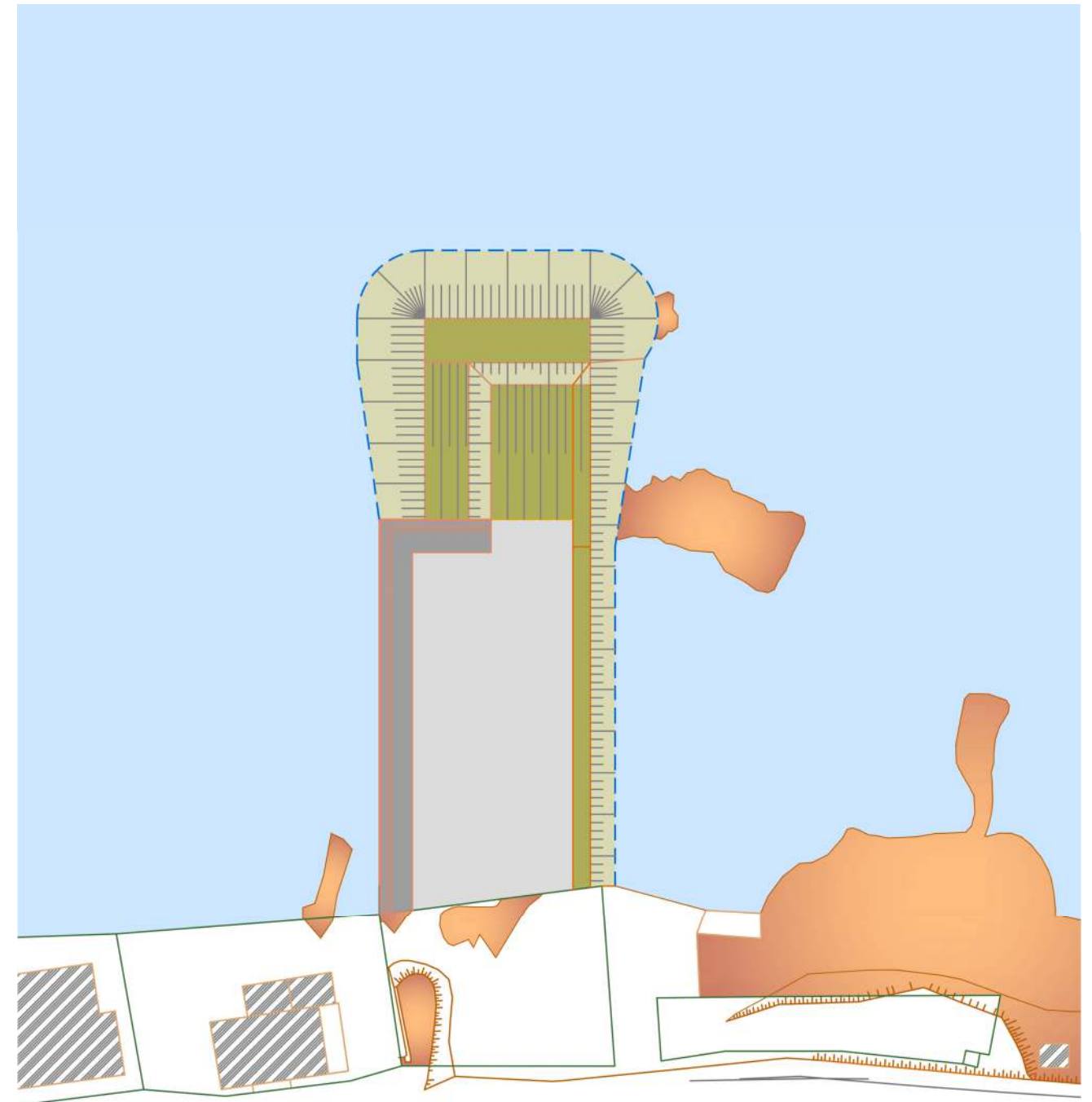
Location LEBANON – Halate
34°04'58" N
35°38'53" E

Consultant SEATEC sarl

Halate Fishing Port – Phase 1

Year 2019
Design

- RC seawall (L=47m) with underwater concrete foundation
- Main breakwater (Rubble mound type; L=25m @max - 3.00m MSL / 9m³ concrete Accropodes blocks)
- Dredging Works
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports

HIRAN FISHING PORT – PHASE 1

27

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Tripoli / Mina
34°27'16" N
35°48'28" E

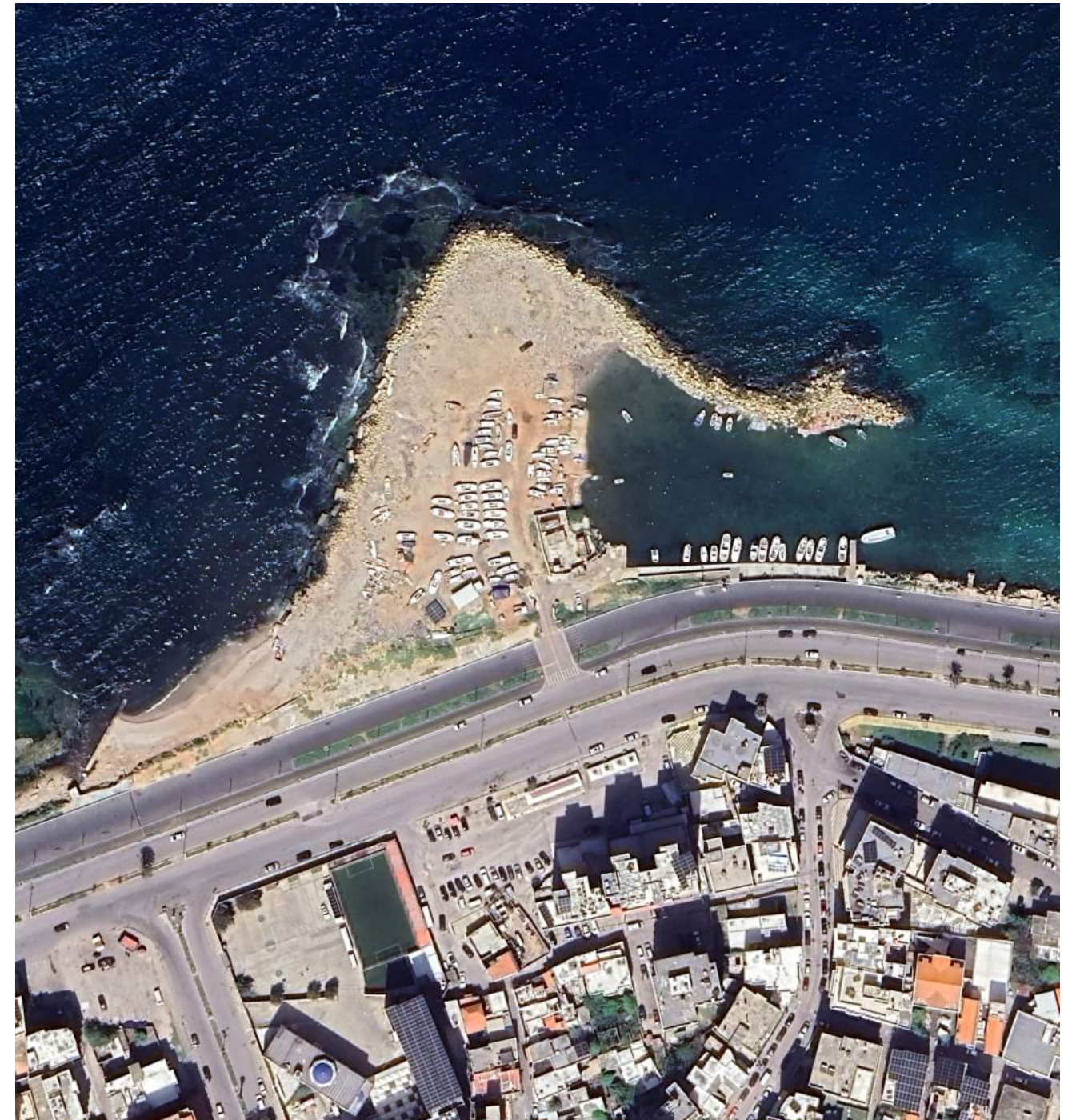
Consultant SEATEC sarl

Hiran Fishing Port – Phase 1

Year 2018
Design / Surveying

- Main breakwater (Rubble mound type, L=174m @max - 5.00m, core material, rocky filter and armor layer)
- Secondary breakwater (Rubble mound type, L=91m @max -2.00m, core material, rocky filter and armor layer)
- Dredging works of access channel and inner basin (18,135m²) up to -3.00m MSL
- Reclaimed area (17,000m²)
- Water body basin (11,500m²)
- Topographic survey (17,420m²)
- Bathymetric survey (97,600m²)
- Tender Documents / Drawings / BoQ

Ports / Fishing Ports / Surveying



AMCHIT FISHING PORT BREAKWATER ARMORING

28

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Amchit
34°9'8" N
35°37'41" E

Consultant SEATEC sarl

Amchit Fishing Port Breakwater Armoring

Year 2018
Design

- Additional armoring for the existing main breakwater with 16m3 concrete Accropodes blocks Type I, to protect an installed statue at the breakwater head from waves overtopping
- Tender Documents / Drawings / BoQ

Works Supervision

- Contractor : Khoury Contracting Company sarl (KCC)
- Duration : 30 days

Ports / Fishing Ports



DREDGING AT NAHR EL KEBIR - 4

29

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°38'2" N
35°58'32" E

Consultant SEATEC sarl

Dredging at Nahr el kebir - 4

Year 2018
Design / Surveying

- Dredging works of the river mouth and partial channel, up to -3.00m MSL
- Topographic survey (1,000m²)
- Bathymetric survey (3,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

Client CCIAT (Chamber of Commerce Industry and Agriculture at Tripoli and North Lebanon)

Location LEBANON - North Lebanon -
Tripoli city to Klayaat airport
34°30'30"N
35°56'50"E

Consultant SEATEC sarl

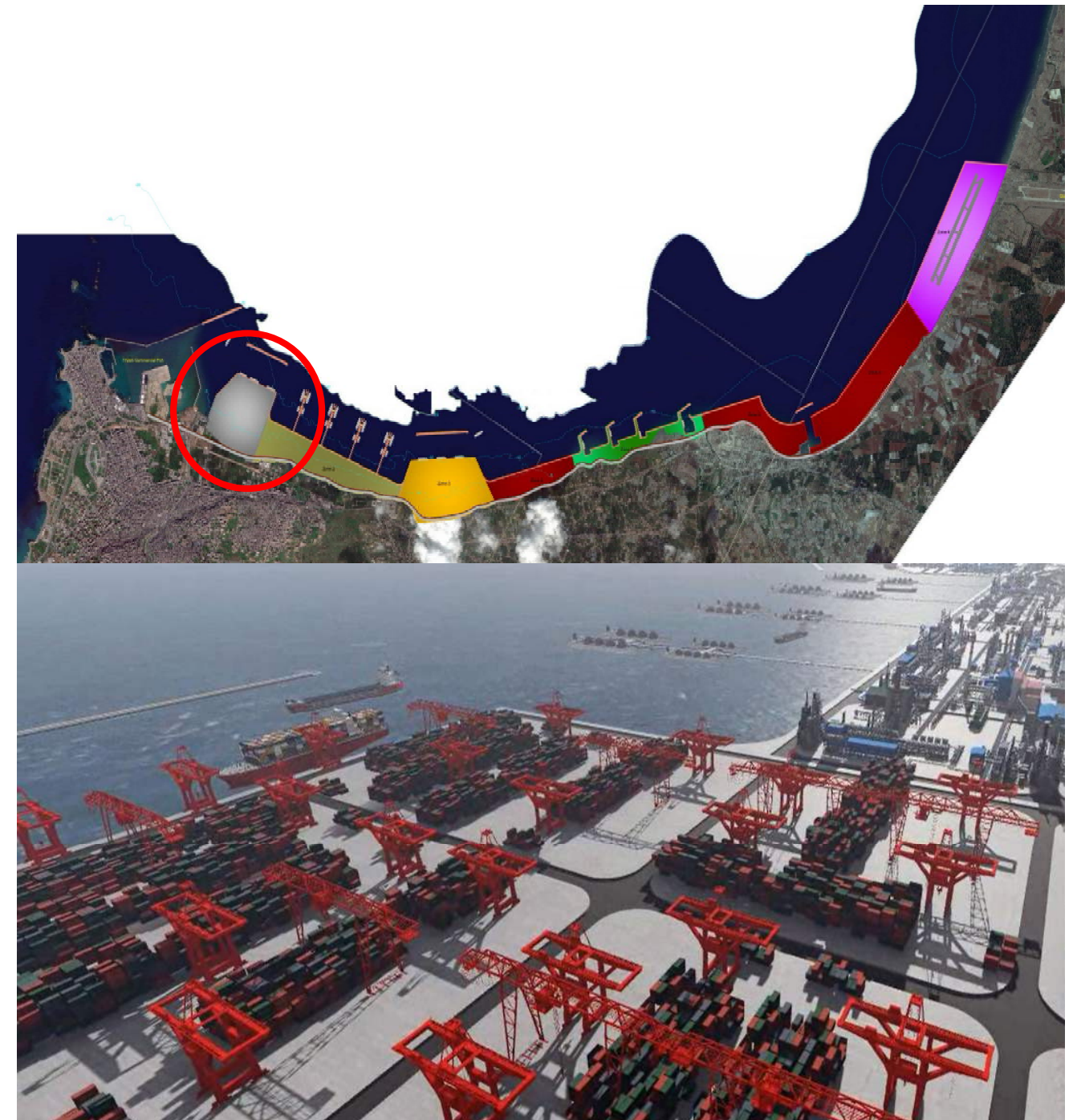
RECNO^R (Reclamation at North Lebanon)
Industrial zone from the Port of Tripoli to Klayaat Airport (23km of shoreline)

Year 2018 – 2019 – 2020 – 2021
Conceptual Design / Permitting

Zone 1 (1,750,000m²)

- Zone 1A (707,000m²) New container terminal
- Detached main breakwater (Rubble mound type, L=1,000m @max -15.00m MSL, core material, rocky filter and concrete Accropodes blocks)
- Extension of the Port main breakwater (Rubble mound type, L=1,000m @max -20.00m MSL, core material, rocky filter and concrete Accropodes blocks)

Ports / Waterfronts / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / **Fishing Ports** / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



REC NOR

- Main quaywall (L=1000m @-15.00m MSL) / sheetpiles QW

Zone 1B (326,000m²)

- Reclaimed area / extension of Tripoli Port existing container terminal

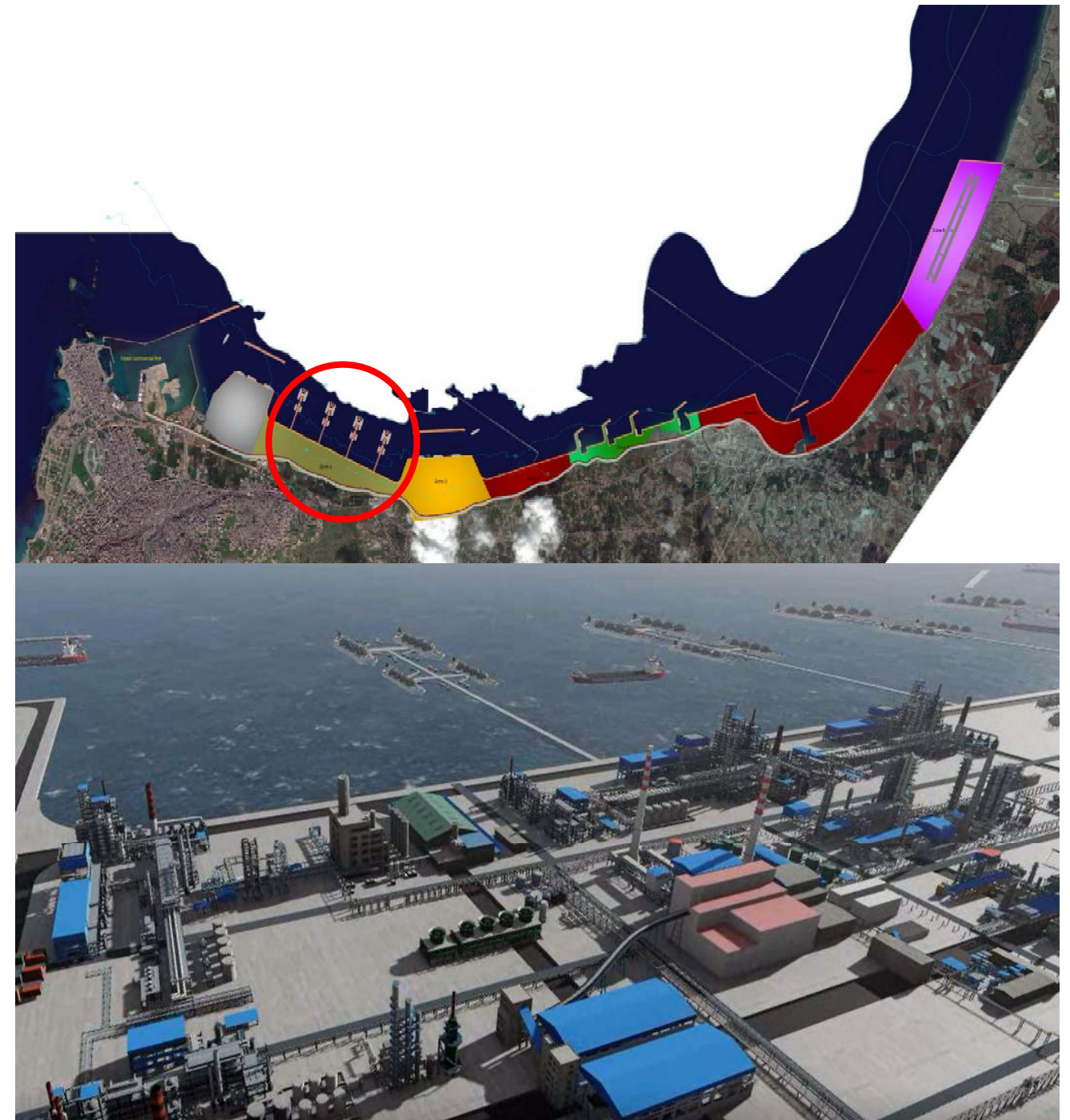
Zone 1C (716,000m²)

- Reclaimed area / new special economic zone (SEZ)

Zone 2 (1,857,000m²) Oil and gas terminal

- 4 Jetties for tankers berthing (Metallic structure on piles, L=870m)
- Berths (L=140m @-12.00m MSL, Nbr 8) / Breasting and Mooring dolphins
- Berths (L=225m @-18.00m MSL, Nbr 8) / Breasting and Mooring dolphins
- Reclaimed platforms for oil, gas and petrochemical industry, refineries, fuel storage tanks...
- Berthing capacity (16 tankers)

Ports / Waterfronts / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / **Fishing Ports** / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



RECNR

Zone 3 (2,147,000m²) General cargo terminal and industrial zone

- Detached main breakwater (Rubble mound type, L=1,200m @max -15.00m MSL, core material, rocky filter and concrete Accropodes blocks)
- Main quaywall (L=1500m @-10.00m MSL) / Precast concrete blocks (Gravity QW)
- Terminal platforms for import of raw materials necessary for industries
- Industrial zone for miscellaneous industrial plants and storage

Zone 4 (936,000m²) Miscellaneous industries / platforms

- Reclaimed platforms
- Coastal protection
- Industrial zone for miscellaneous industrial plants and storage

Zone 5 (990,000m²) Special industries with berths

- Reclaimed platforms
- Special industries (clinker, coal...) with related berths

Ports / Waterfronts / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / **Fishing Ports** / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



RECNR

Zone 6 (938,000m²) Oil and gas offshore platforms services

- Reclaimed platforms for service of offshore oil and gas platforms
- Storage of equipments, related maintenance and industry facilities
- Port for tug and service boats

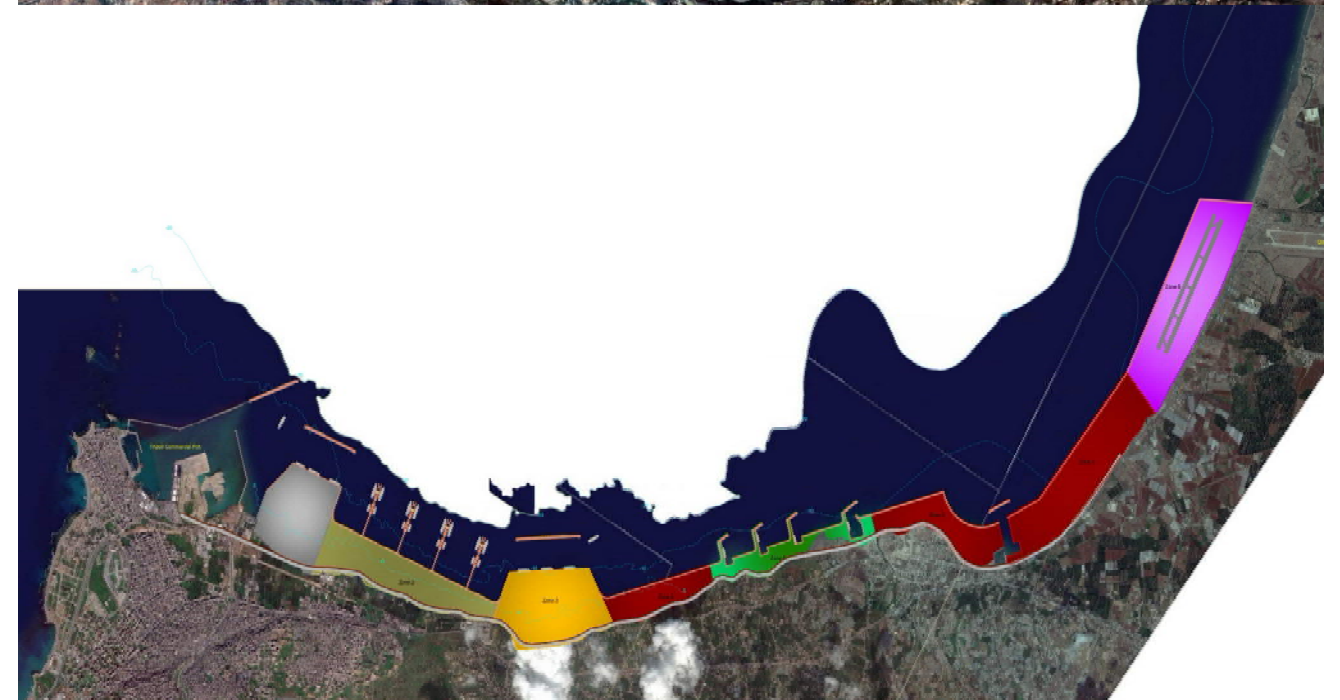
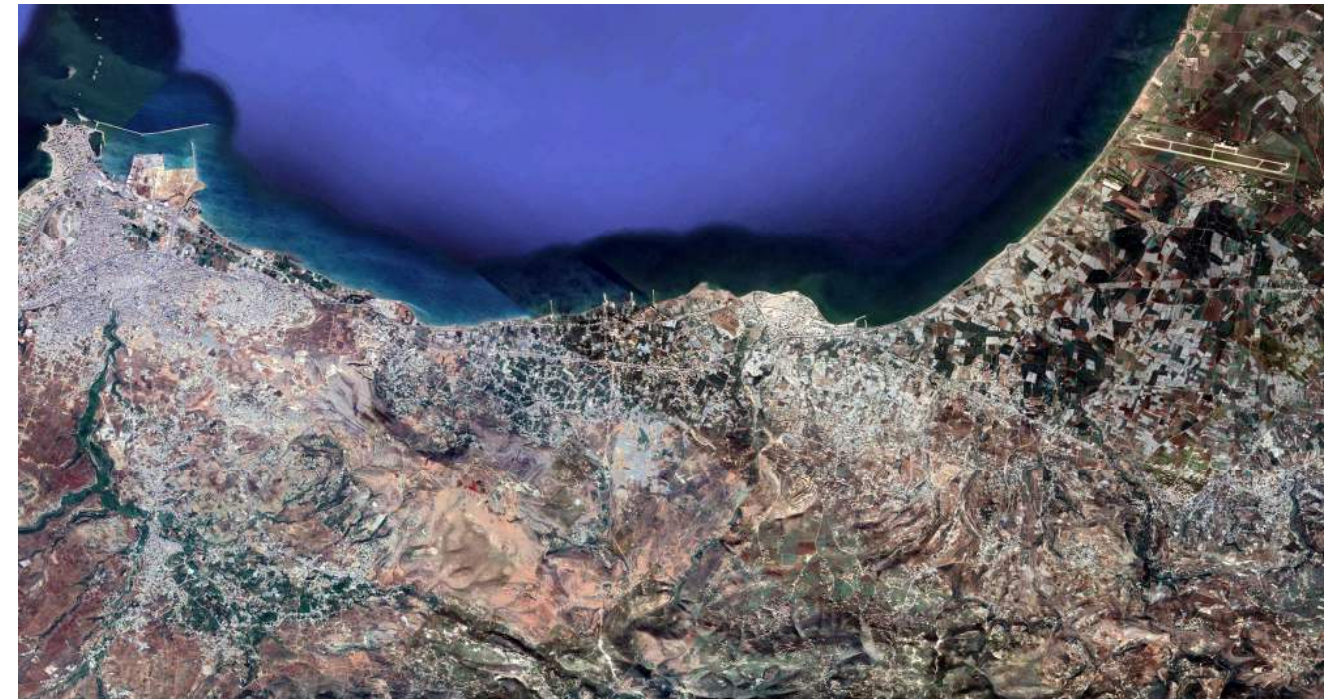
Zone 7 (3,054,000m²) Miscellaneous industries and fishing

- Reclaimed platforms
- Miscellaneous industries
- Fishing industries
- Extension of Abdeh Fishing Port

Zone 8 (4,178,000m²) Airport extension / services

- Extension of existing Klayaat Airport
- New runway
- Auxiliary services in neighboring platforms (hospitals, hotels...)
- Total reclaimed areas (16,096,000m²)
- Drawings / Presentation / Permitting

Ports / Waterfronts / Permitting / General Cargo Terminals / Industrial Ports / Oil & Gas Terminals / **Fishing Ports** / Container Terminals / Service Ports / Coastal Protections / Revetments / Mooring Structures / Dolphins



JOUNIEH WATERFRONT

34

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jounieh
33°59'43" N
35°38'23" E

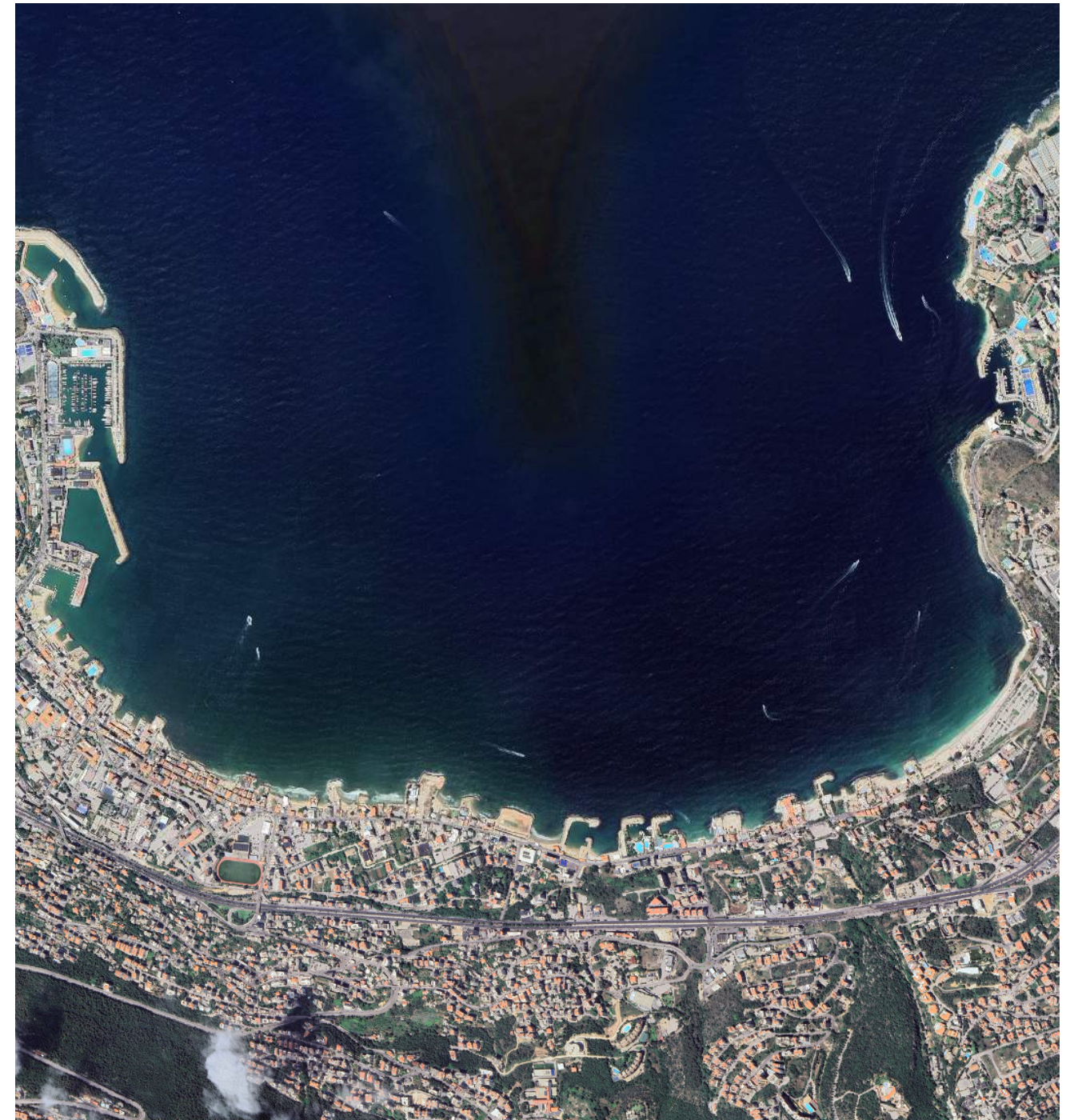
Consultant SEATEC sarl

Jounieh Waterfront

Year 2018 – 2019 – 2020
Conceptual Design / Surveying / Permitting

- Master Plan for Jounieh waterfront
- Southern fishing port (200 berths)
- Coastal walkway (L~4,000m)
- Nourished sandy beach (L~2,300m)
- Review of public maritime domain infringements
- Marina (360 berths)
- Public places and green areas
- Landscaping and recreational places
- Topographic survey (shoreline along 4,000m)
- Bathymetric survey (8,235,000m²)
- Drawings / Decree / Permitting

Ports / Surveying / Waterfronts / Marinas / **Fishing Ports** / Coastal Protections /
Revetments / Seawalls / Beaches / Permitting



AL GHADIR FISHING PORT (1/2)

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Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

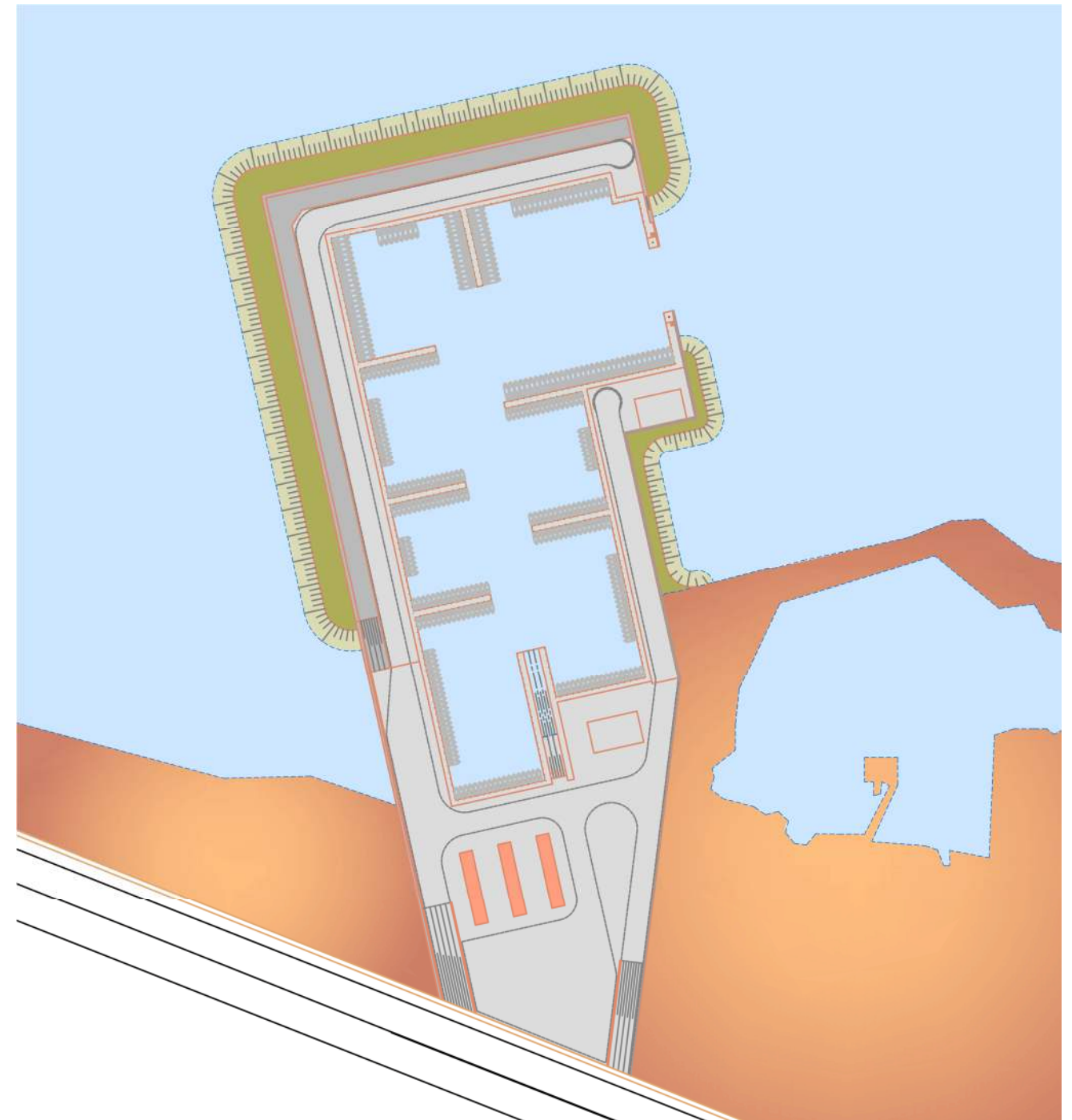
Location LEBANON – Al ghadir
33°46'37" N
35°28'08" E

Consultant SEATEC sarl

Al Ghadir Fishing Port

Year 2018
Design / Surveying

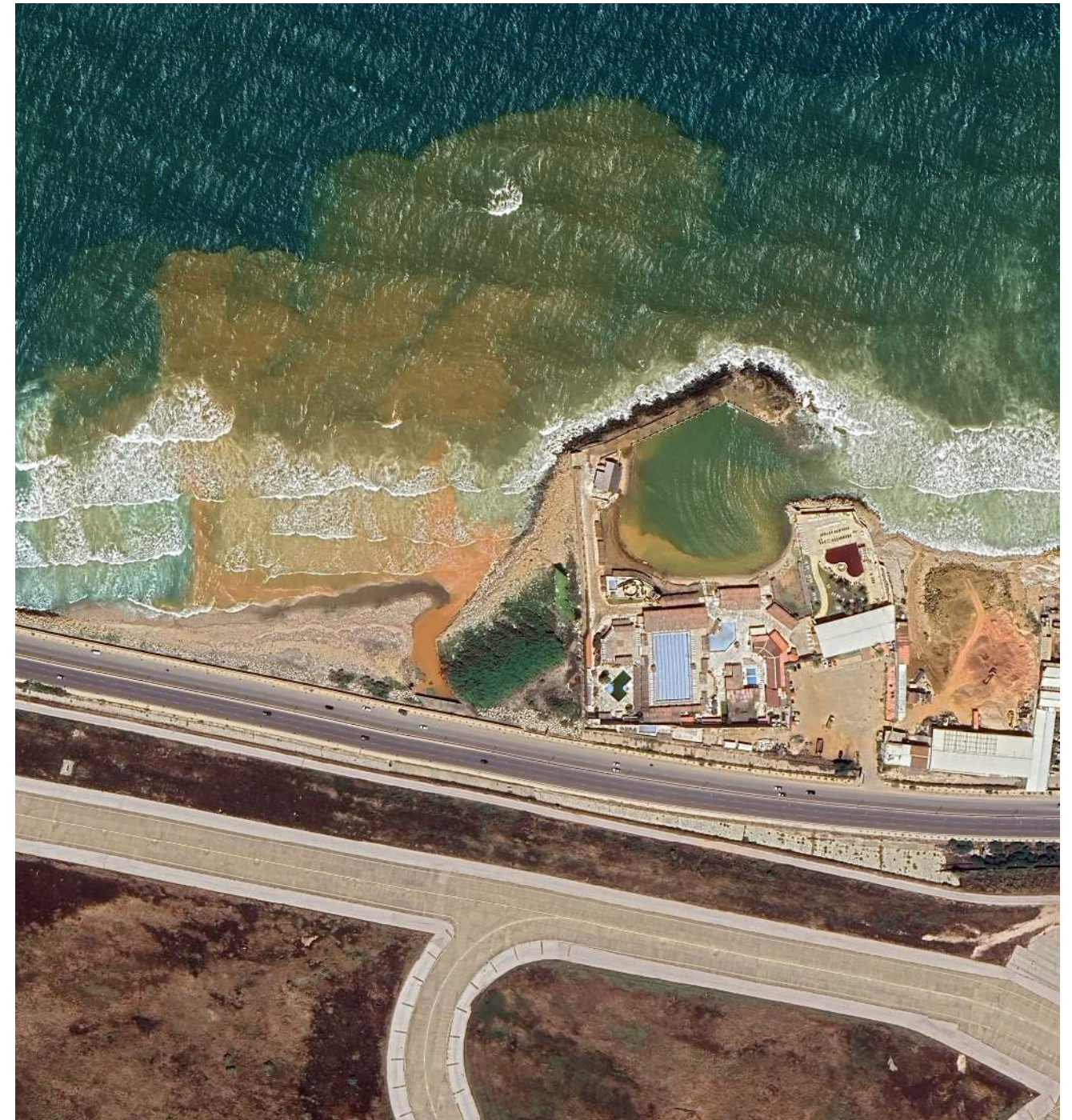
- Master Plan
- Berthing capacity (350 boats)
- Main breakwater (Rubble mound type, L=326m @max -5.50m MSL, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Secondary breakwater (Rubble mound type, L=119m @max -5.00m MSL, core material, rocky filter and rocky armor layer)
- RC seawall (Underwater foundation, L=150m @max -2.00m MSL)



Ports / Fishing Ports / Lift Structures / Slipways / Surveying

Al Ghadir Fishing Port

- Quaywalls (L=655m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger piers (L=150m @-3.00m MSL) / Precast concrete blocks
- RC retaining walls
- Asphalted and RC platforms (15,950m²)
- Dredging works of inner basin (5400m²) up to -3.00m MSL
- Drying, maintenance and storage area, slipway (Boat ramp)
- Car parking
- Marine accessories (Mooring bollards)
- Infrastructure (Electrical supply, pipes, manholes, lighting)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Waste water treatment plant
- DGLMT, army check point and Fishermen rooms (427m²) / Nbr=18,
- Fish market (207m²)
- Syndicate building (234m²)
- Landscape
- Reclaimed area (29,820m²)
- Water body basin (18,445m²)
- Topographic survey (192,560m²)
- Bathymetric survey (7,500m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Surveying

JIEH FISHING PORT – PHASE 1 (1/2)

37

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jieh
33°39'06" N
35°24'44" E

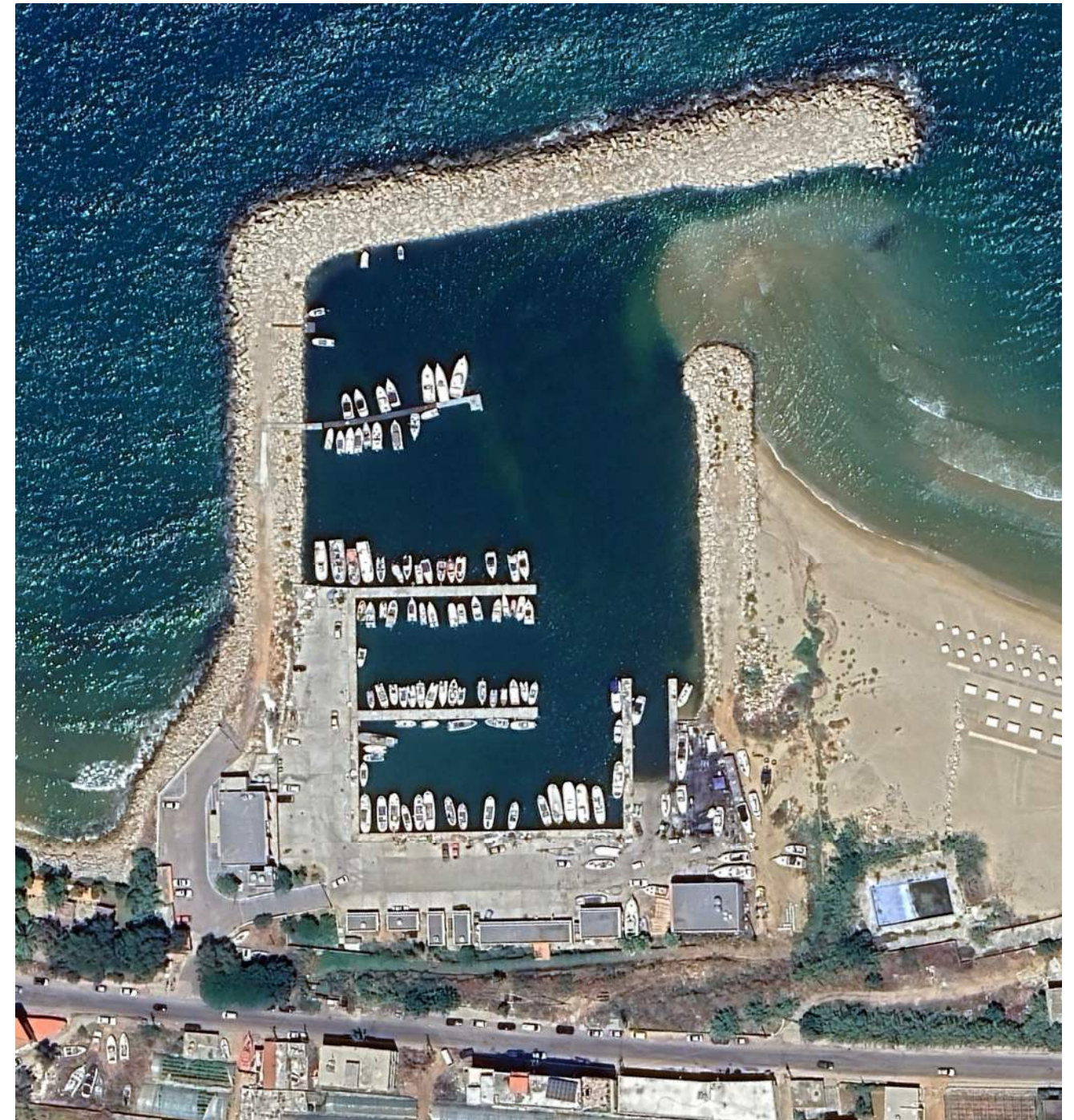
Consultant SEATEC sarl

Jieh Fishing Port – Phase 1

Year 2018
Design / Surveying

- Complementary works for the existing fishing port
- Berthing capacity (110 boats)
- Quaywalls (L=172m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=98m @-3.00m MSL, Nbr 2) / Precast concrete blocks (Gravity QW)
- RC seawall
- Slipway (Boats ramp)
- Basin dredging @-3.00m MSL
- Asphalted and concrete platforms

Ports / **Fishing Ports** / Coastal Protections / Seawalls / Lift Structures / Slipways / Dredging / Surveying



Jieh Fishing Port – Phase 1

- Accessories (Mooring bollards, lighting and water supply)
- Topographic survey (10,100m²)
- Bathymetric survey (4,300m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Coastal Protections / Seawalls / Lift Structures / Slipways / Dredging / Surveying

NEW JDEIDEH FISHING PORT (1/2)

39

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jdeideh
33°46'37" N
35°28'08" E

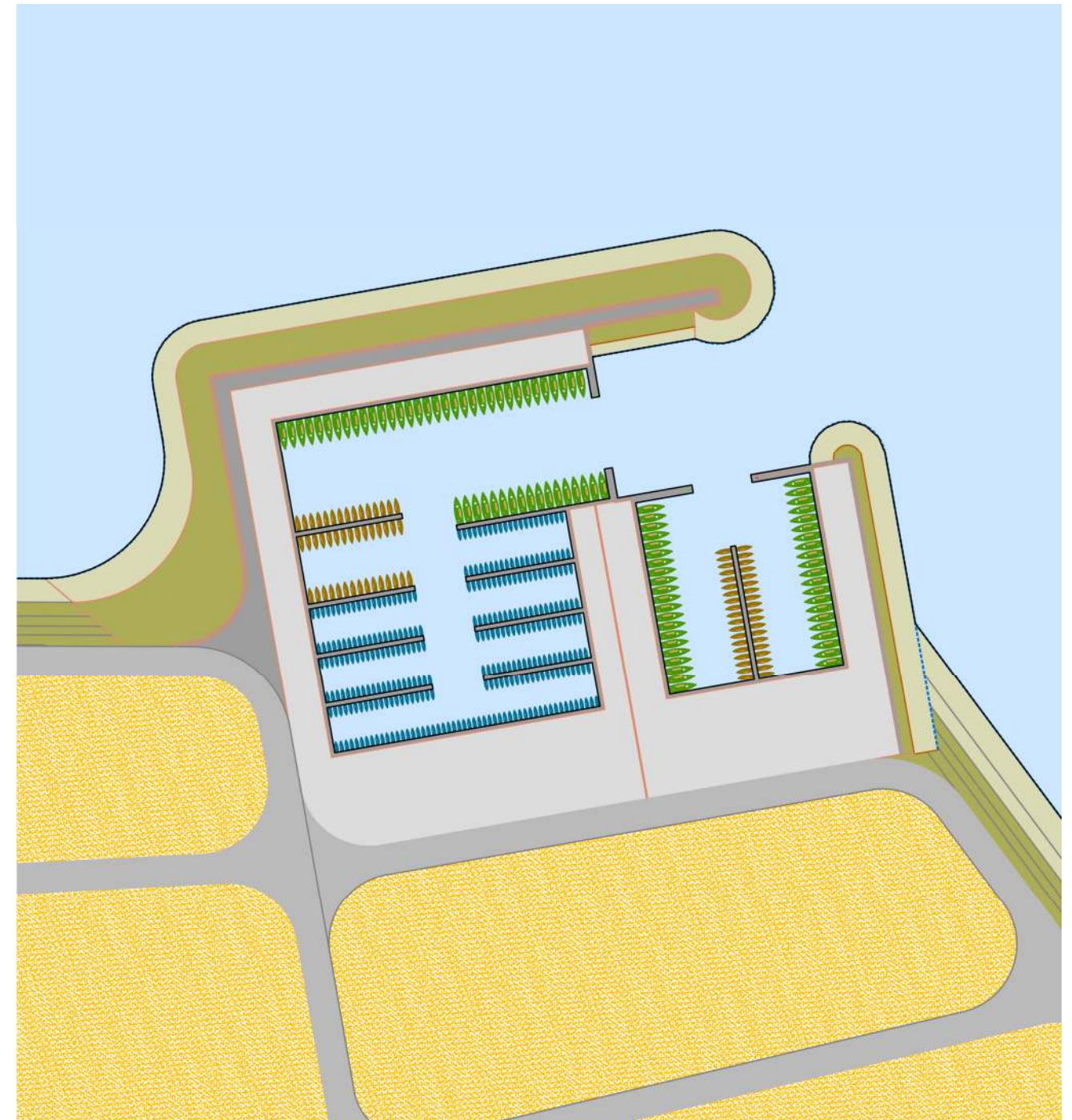
Consultant SEATEC sarl

New Jdeideh Fishing Port

Year 2017
Conceptual Design

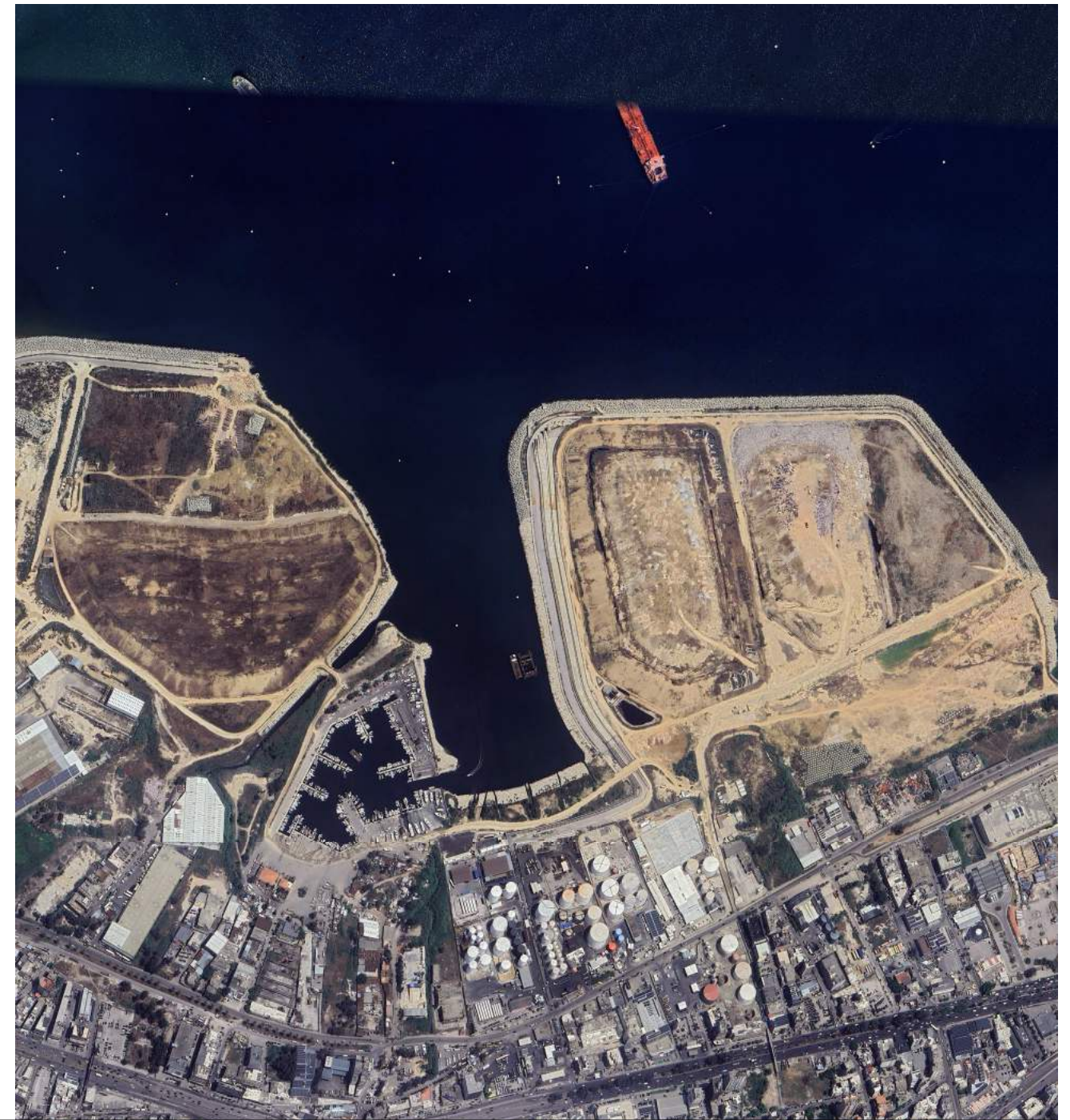
- Master Plan
- Berthing capacity (480 boats)
- Main Breakwater (Rubble mound type, L=425m, core material, rocky filter and concrete Accropodes blocks Type I)
- Quaywalls (L=985m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=445m @-3.00m MSL, Nbr 8) / Precast concrete elements

Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying



New Jdeideh Fishing Port

- Slipway / Hoist
- Basin dredging @ -3.00m MSL
- Asphalted and concrete platforms (27,200m²)
- Water body (34,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

ANFEH FISHING PORT (1/2)

41

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Anfeh
34°21'54" N
35°44'15" E

Consultant SEATEC sarl

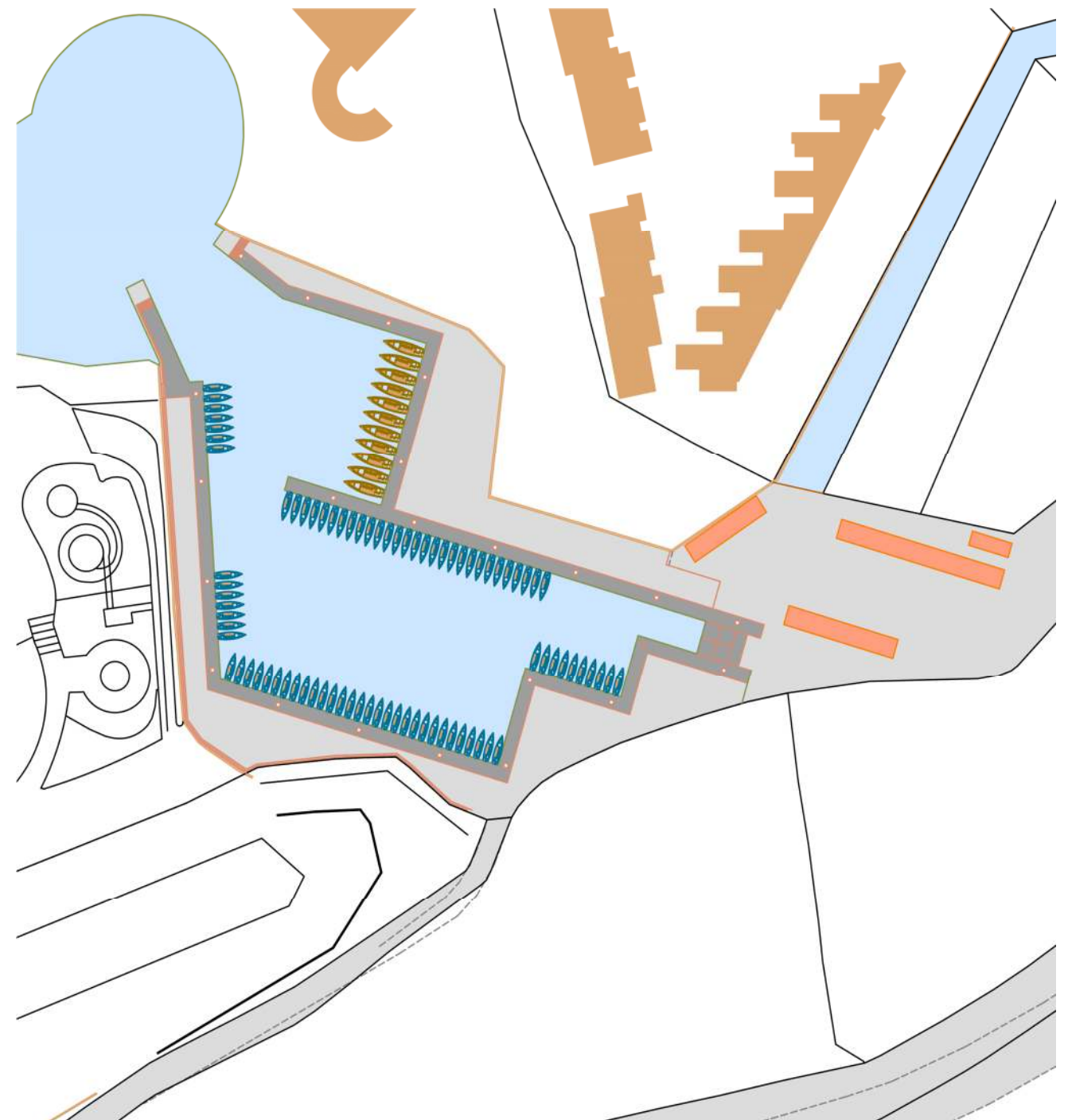
Anfeh Fishing Port

Year 2017
Conceptual Design

Year 2019
Design / Surveying

- Rehabilitation of the old existing port
- Master Plan
- Berthing capacity (100 boats)
- Main Breakwater (Vertical concrete type, L=20m @max - 2.00m MSL)
- Quaywalls (L=360m @-2.50m MSL) / Underwater concrete blocks (Gravity QW)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Enviro Studies / Surveying



Anfeh Fishing Port

- RC and bituminous platforms (5000m²)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, stormwater drainage, river culvert, pumps, pipes, manholes, tanks)
- Marine accessories (Mooring bollards, fenders)
- Waste water treatment plant
- Basin dredging @ -2.50m MSL
- Slipway (Boats ramp)
- 23 Fishermen rooms, 1 check point (room), 1 MPWT / DGLMT room (235m²)
- Reclaimed area (5,000m²)
- Water body (3,875m²)
- Topographic survey (29,900m²)
- Bathymetric survey (4,330m²)
- Tender Documents / Drawings / BoQ / Permitting

EIA

- Environmental Impact Assessment study (SEATEC JV SES)

Works Supervision

- Contractor : Ste. Antoine Makhoul for Trading and Contracting sal
- Duration : 24 months

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Enviro Studies / Surveying



DREDGING AT NAHR EL KEBIR - 3

43

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°38'2" N
35°58'32" E

Consultant SEATEC sarl

Dredging at Nahr el kebir - 3

Year 2017
Design / Surveying

- Dredging works of the river mouth and partial channel, up to -3.00m MSL
- Topographic survey (1,000m²)
- Bathymetric survey (3,000m²)
- Drawings / BoQ

Works Supervision

- Contractor : Concord for General Contracting
- Duration : 30 days

Ports / Fishing Ports / Dredging / Surveying



METN FISHING PORT (1/2)

44

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jdeideh
33°54'11" N
35°33'40" E

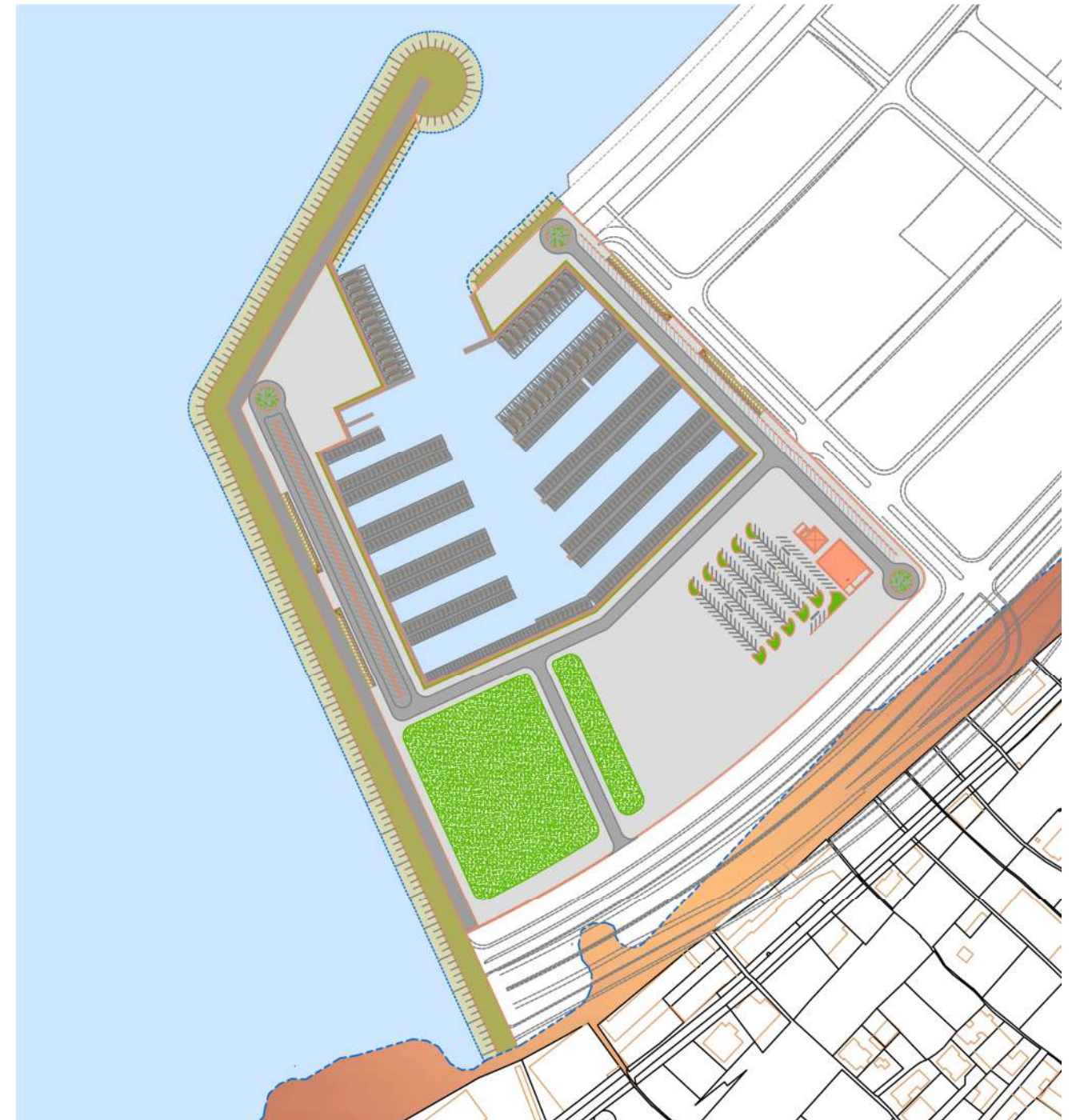
Consultant SEATEC sarl

Metn Fishing Port

Year 2017
Conceptual Design / Surveying

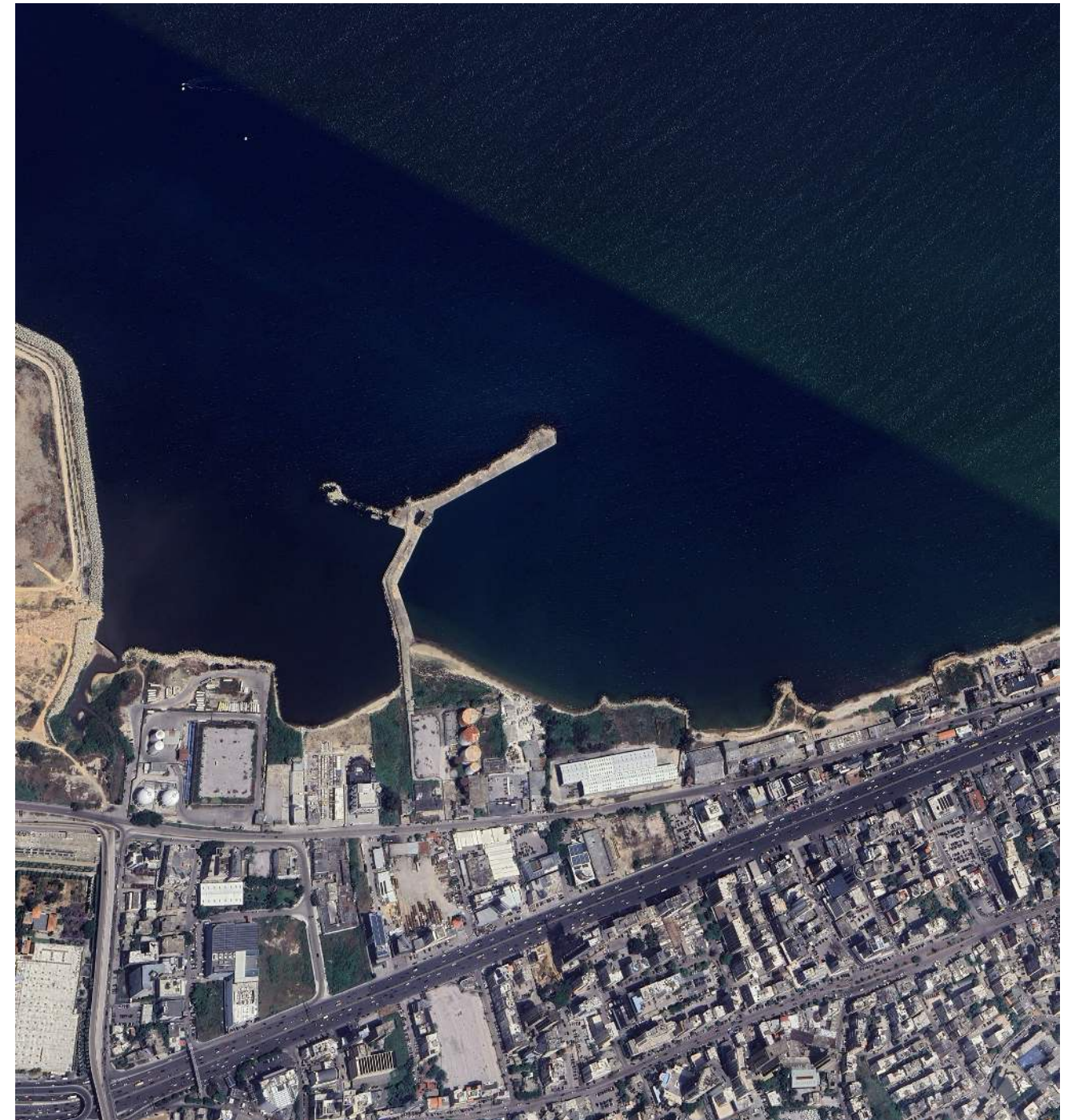
- Master Plan
- Berthing capacity (900 boats)
- Main Breakwater (Rubble mound type, L=370m, core material, rocky filter and concrete Accropodes blocks Type I)
- Quaywalls (L=1,800m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (L=740m @-3.00m MSL, Nbr 7) / Precast concrete elements
- Slipway / Hoist

Ports / Fishing Ports / Lift Structures / Slipways / Slipways / Hoists / Dredging / Surveying



Metn Fishing Port

- Basin dredging @ -3.00m MSL
- Fishmarket, fishermen syndicate building and fishermen rooms
- Asphalted and concrete platforms (90,000m²)
- Water body (46,700m²)
- Topographic survey
- Bathymetric survey (200,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Slipways / Hoists / Dredging / Surveying

CHEKKA FISHING PORT ENTRANCE

46

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

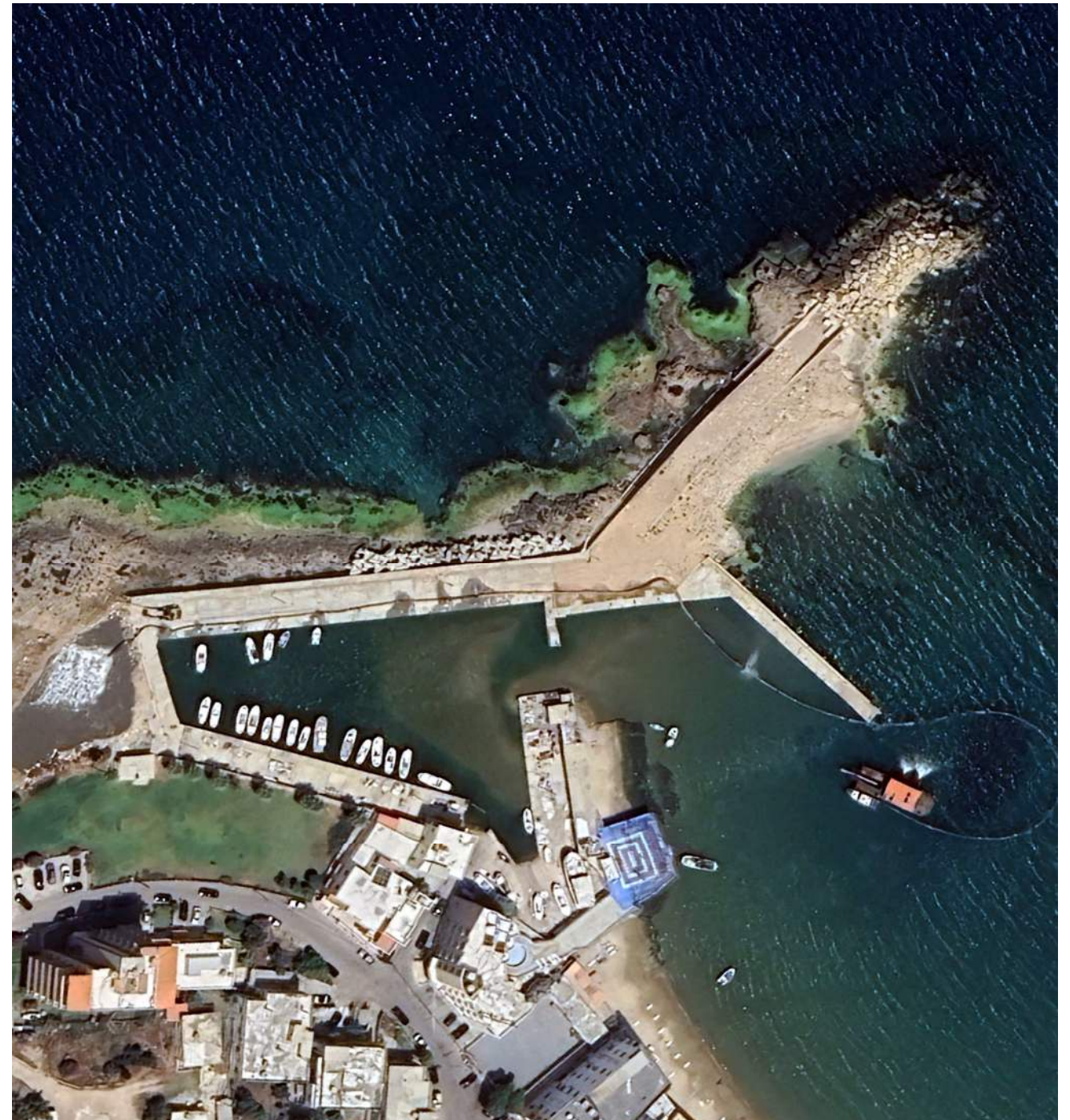
Location LEBANON – Chekka
34°19'41" N
35°43'22" E

Consultant SEATEC sarl

Chekka Fishing Port Entrance

Year 2017
Design / Surveying

- Vertical underwater concrete protection at port entrance with curved RC sea wall (L=45.00m)
- Electrical and water supply, bollards, dredging...
- Topographic survey
- Bathymetric survey
- Tender Documents / Drawings / BoQ



Ports / **Fishing Ports** / Surveying

NATOUR DEVELOPMENT

47

Client Natour Development sal

Location LEBANON – Anfeh
34°22'28" N
35°44'10" E

Consultant SEATEC sarl

Natour Development

Year 2016 – 2017 – 2018 – 2019
Design / Surveying / Permitting

- Fishing / Marina Master Plan
- Vertical Concrete Main Breakwater
- Quaywalls / underwater concrete blocks (Gravity QW)
- Concrete platforms
- Dredging and excavation works for access channel and basin
- Accessories (Jib Crane, mooring bollards, fenders, lighting, water supply...)
- Beach Club design (Waves run-up / overtopping assessment)
- Waterfront protection
- Topographic survey
- Bathymetric survey (5,920,000m²)
- Underwater inspection
- Specifications / Drawings / BOQ / Permitting

Ports / Marinas / Fishing Ports / Waterfronts / Coastal Protections / Seawalls / Lift Structures / Hoists / Surveying



LINOR WATERFRONT (1/2)

Client N/A
Location LEBANON – Antelias
33°54'30" N
35°34'34" E
Consultant SEATEC sarl

Linor Waterfront

Year 2016 – 2017 – 2018 – 2019 – 2020
Design / Surveying / Permitting

- Master Plan
- Reclaimed area (1,225,000m2)
- High rise, residential, offices (172,400m2)
- Retail (65,700m2)
- Villas (79,100m2)
- Private beach (36,100m2)
- Green areas and public beach (70,250m2)
- Marina: Reclaimed area (60,000m2)
- Water body Basin (58,000m2)
- Berthing capacity (640 Yachts)
- Recreational attractions (74,900m2)
- Walkways / Water promenade (443,000m2)
- Highways and roads (244,000m2)

*Ports / Marinas / Fishing Ports / Waterfronts / Service Ports / Coastal Protections /
Revetments / Seawalls / Lift Structures / Hoists / Surveying*



Linor Waterfront

- Main breakwater (Rubble mound type, L=1,850m, core material, rocky filter and precast concrete Accropodes blocks Type II)
- Waterways and channels
- Fishing port: Reclaimed area (37,000m²)
Water body Basin (35,000m²)
Berthing capacity (450 Fishing boats)
- Service port (Water taxi):
Reclaimed area (37,000m²)
Water body Basin (7,500m²)
Berthing capacity (50 water taxi)
- Service port (Hoist and maintenance area):
Reclaimed area (8,000m²)
Water body Basin (2,000m²)
Berthing capacity (10 boats)
- Bathymetric survey (1,740,000m²)
- Drawings / BoQ / Permitting



Ports / Marinas / Fishing Ports / Waterfronts / Service Ports / Coastal Protections / Revetments / Seawalls / Lift Structures / Hoists / Surveying

DAR EL MREISSE FISHING PORT

50

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

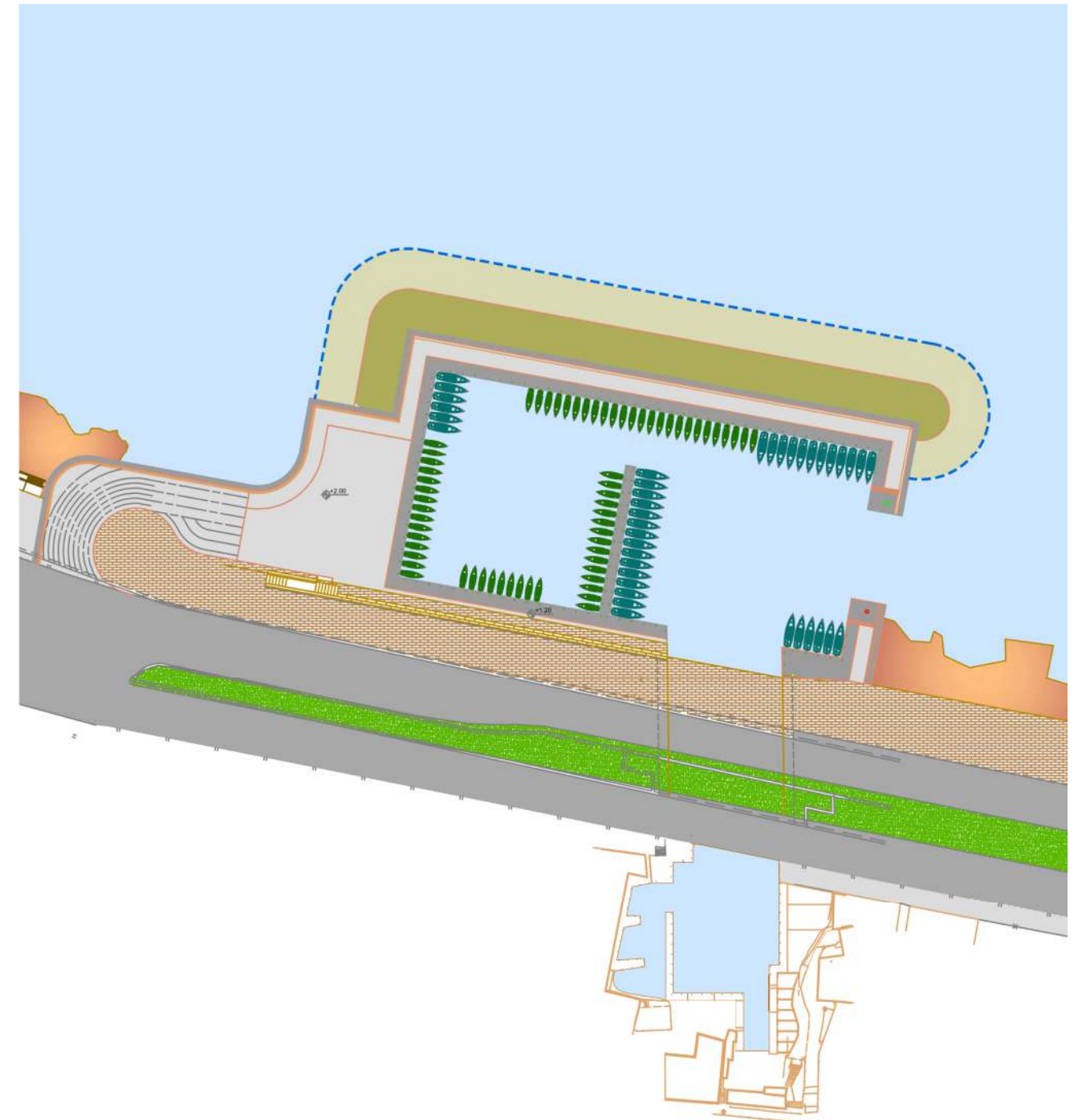
Location LEBANON – Dar el Mreisse
33°54'6" N
35°29'12" E

Consultant SEATEC sarl

Dar el Mreisse Fishing Port

Year 2016
Conceptual Design

- Master Plan
- Berthing capacity (130 boats)
- Main Breakwater (Vertical underwater concrete type, L=100m @max -7.00m MSL with additional 16m³ precast concrete Accropodes blocks type I
- Specifications / Drawings / BoQ



Ports / Fishing Ports / Surveying

DREDGING AT NAHR EL KEBIR - 2

51

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°38'2" N
35°58'32" E

Consultant SEATEC sarl

Dredging at Nahr el kebir - 2

Year 2015
Design / Surveying

- Dredging works of Nahr el Kebir river mouth and partial channel, up to -3.00m MSL
- Topographic survey (1,000m²)
- Bathymetric survey (3,000m²)
- Drawings / BoQ

Year 2016
Works Supervision

- Contractor : Concord for General Contracting
- Duration : 20 days

Ports / Fishing Ports / Dredging / Surveying



BYBLOS FISHING PORT – PHASE 1 (1/2)

52

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Byblos
34°7'17" N
35°38'36" E

Consultant SEATEC sarl

Byblos Fishing Port – Phase 1

Year 2015
Design / Surveying

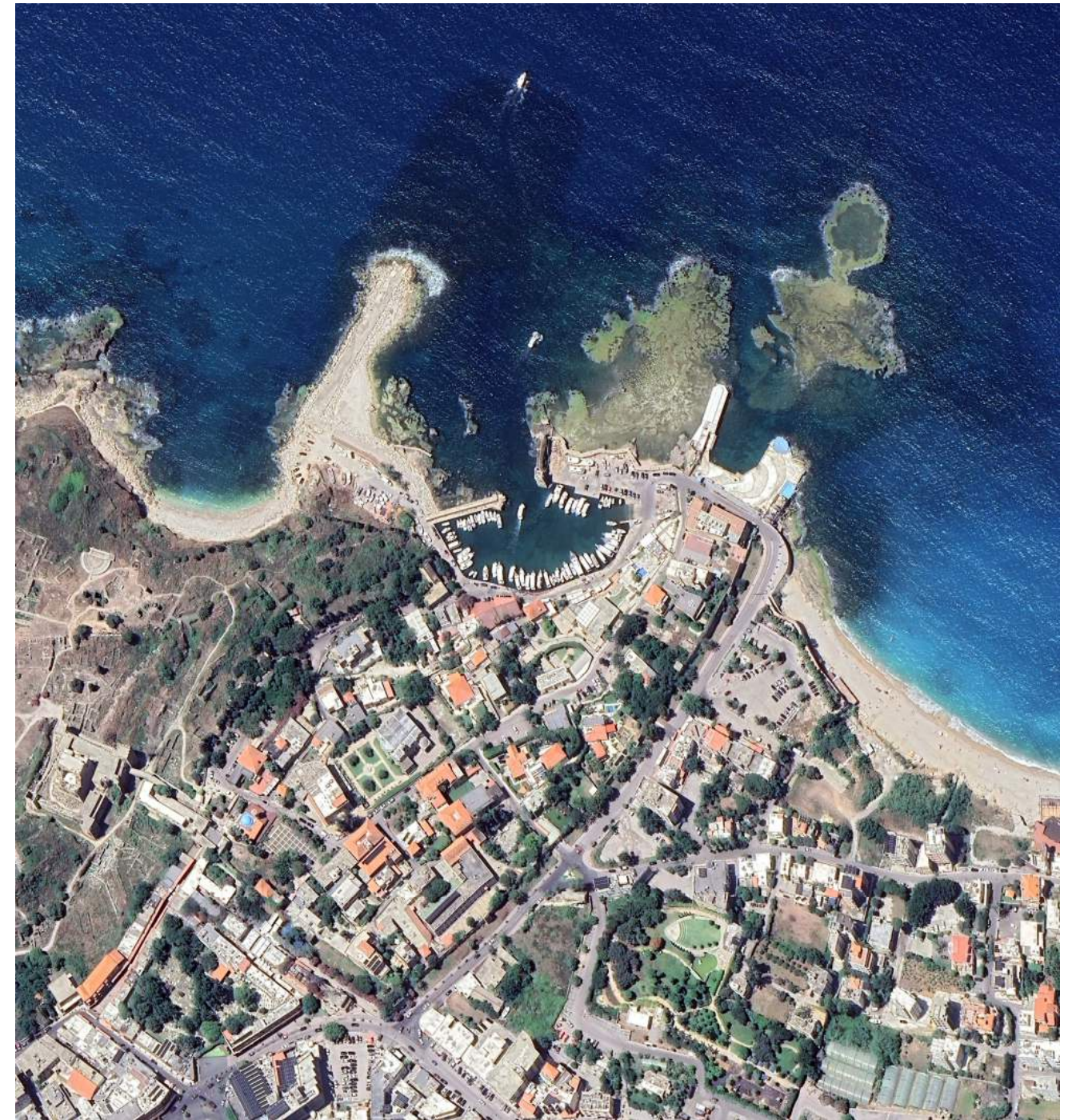
- Rehabilitation of the historical fishing port
- Berthing capacity (85 boats)
- Rehabilitation of the existing and damaged secondary breakwater head at the port entrance (Underwater concrete) and reconstruction of sandy stones
- Demolition and removal of old quaywalls
- New quaywalls (L=279m @Max-3.00m MSL) / Underwater concrete blocks (Gravity QW)
- RC Platforms (1,200m²)
- Pedestrian pathways



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

Byblos Fishing Port – Phase 1

- RC retaining walls
- Slipway
- Dredging works of inner basin up (5,200m²) to -3.00m MSL
- Marine accessories (Mooring bollards)
- Landscape
- Infrastructure (Electrical supply, pipes, manholes, lighting)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Waste water treatment plant
- DGLMT and Port master rooms (140m²) / Nbr=5
- Topographic survey (3,000m²)
- Bathymetric survey (7,500m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Naqoura
33°7'36" N
35°8'37" E

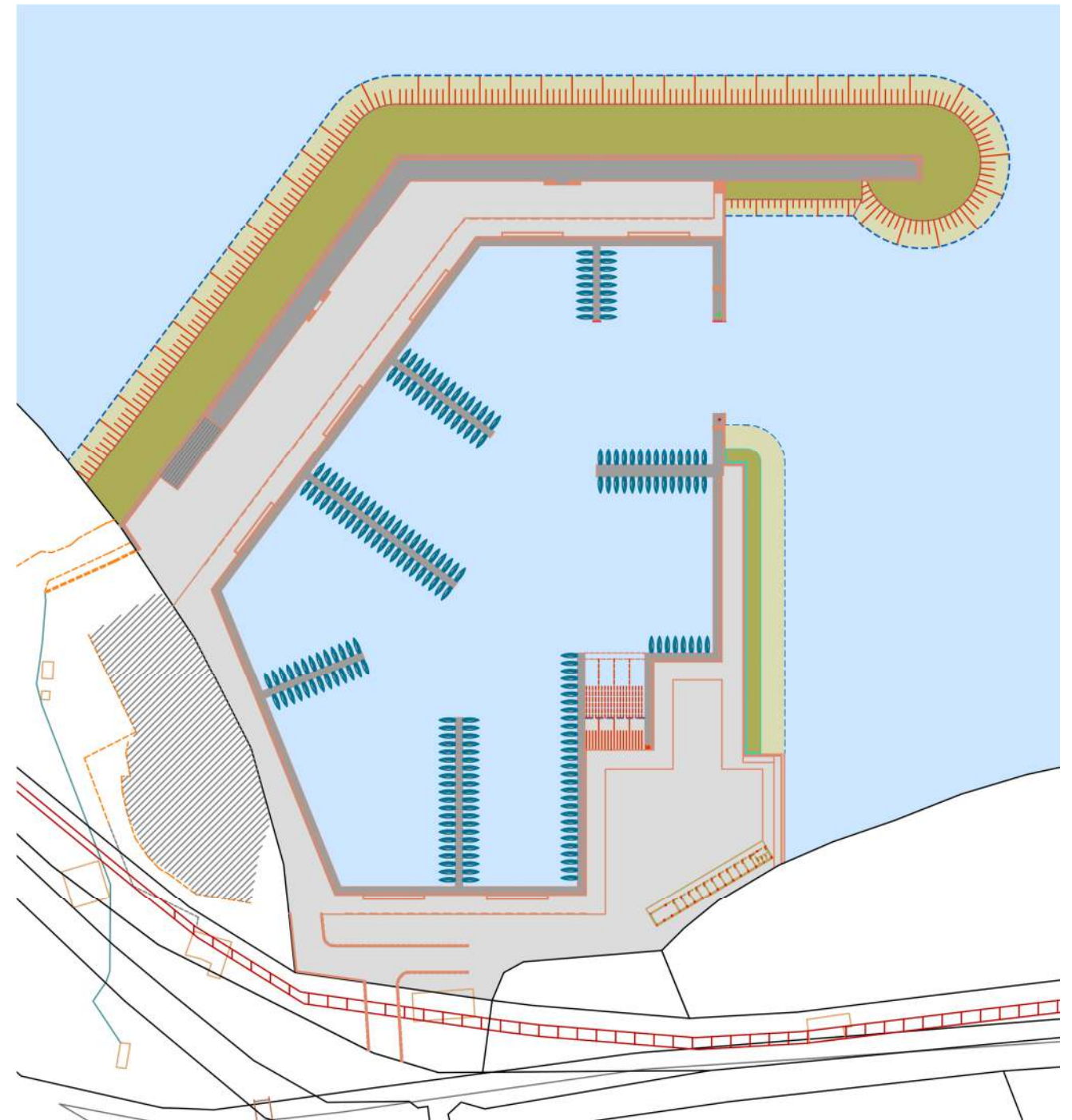
Consultant SEATEC sarl

Naqoura Fishing Port

Year 2014
Design / Surveying

- Master Plan
- Berthing capacity (420 boats)
- Excavation of existing port infrastructure
- Rehabilitation of old and existing breakwater L=150m @max -7.00m MSL (Rubble mound breakwater type, new filter and armor layer of 16m³ precast concrete Accropodes Blocks Type I)
- New extension of main breakwater (L=170m @max -7.00m MSL, Rubble mound breakwater type, new filter and armor layer of 16m³ precast concrete Accropodes Blocks Type I)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Naqoura Fishing Port

- Secondary breakwater L=95m @max -3.50m, (Rubble mound type, with rocky armor layer)
- RC crown walls
- RC retaining walls
- Quaywalls (L=307m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=88m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=188m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=307m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Piers (Nbr=2; L=90m @-2.00m MSL) / Precast concrete blocks
- Finger Piers (Nbr=2; L=98m @-3.00m MSL) / Precast concrete blocks
- Finger Piers (Nbr=2; L=64m @-4.00m MSL) / Precast concrete blocks
- Water Outlet for basin flushing (Nbr 2, L=52.00m) / Precast concrete blocks
- Slipway (Boats ramp)
- RC Platforms (4,800m²)
- Bituminous Platforms (15,800m²)



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

Naqoura Fishing Port

- Dredging works of basin (6,400m²) @ -2.00m MSL and quaywalls/armor layer foundations
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Fuel station
- Waste water treatment plant
- Marine accessories (Mooring bollards, fenders)
- DGLMT, Army and Fishermen rooms (Nbr=11; 200m²)
- Reclaimed platforms (32,100m²)
- Basins (22,900m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

BYBLOS FISHING PORT CAUSEWAY

57

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

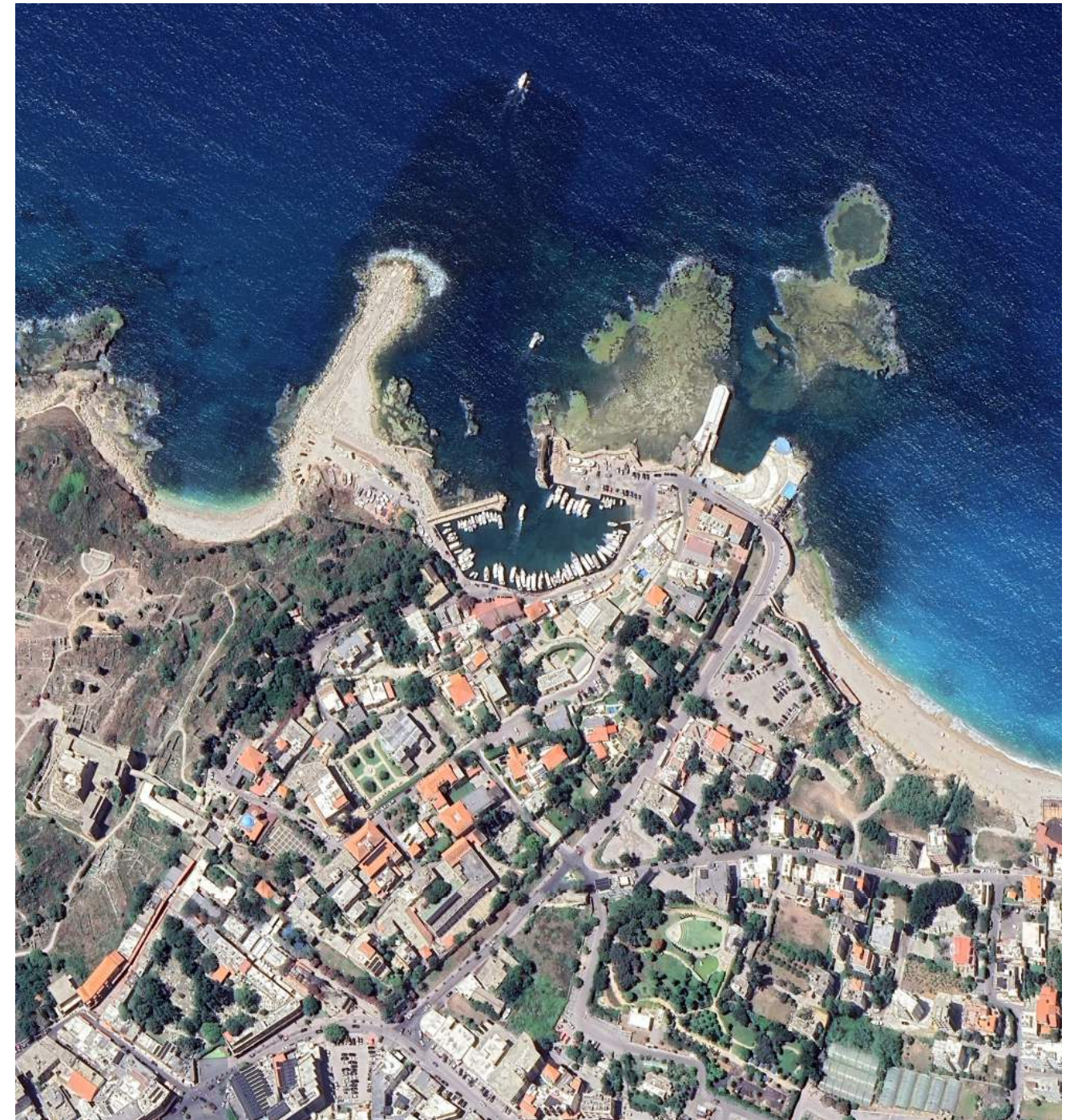
Location LEBANON – Byblos
34°7'17" N
35°38'36" E

Consultant SEATEC sarl

Byblos Fishing Port Causeway

Year 2014
Conceptual Design

- Removal of the existing Main Breakwater and substitution with a submerged reef (L=376m @max -11.00m / Concrete Accropodes blocks) with a walkway on piles linked to shore
- Drawings / BoQ



Ports / Fishing Ports / Waterfronts / Coastal Protections / Revetments

TRIPOLI FISHING PORT (1/2)

58

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Tripoli
34°27'14" N
35°48'55" E

Consultant SEATEC sarl

Tripoli Fishing Port

Year 2014
Design

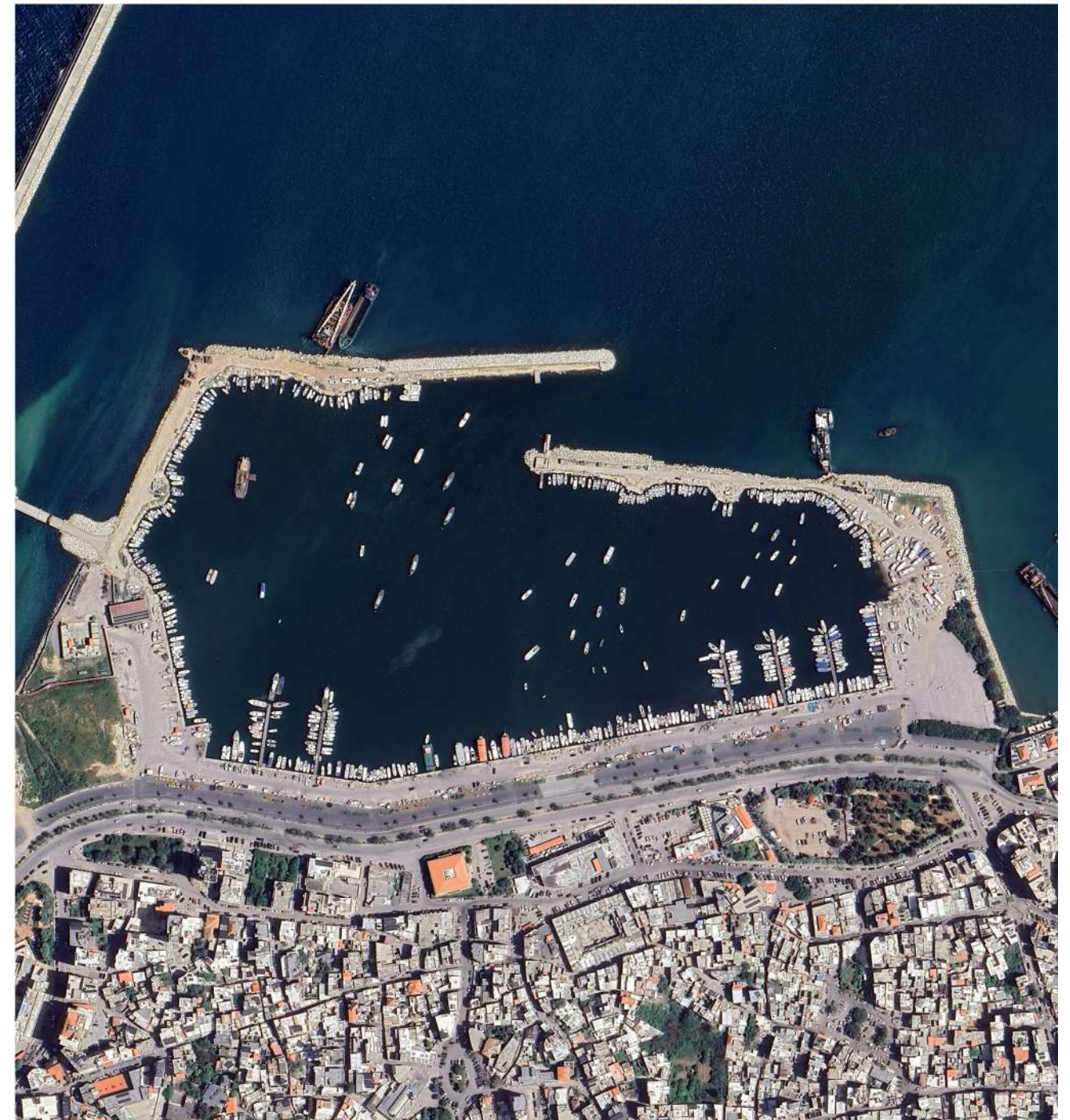
- Master Plan
- Berthing capacity (850 boats)
- Complementary works
- Rehabilitation of the existing main breakwaters L=545m @max -4.00m MSL (Rubble mound breakwater type, rocky armor layer)
- RC retaining walls
- Quaywalls (L=85m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=140m @-3.00m MSL) / Precast concrete blocks (Gravity QW)



Ports / Fishing Ports / Lift Structures / Slipways

Tripoli Fishing Port

- Quaywalls (L=430m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (Nbr=1; L=50m @-2.00m MSL) / Precast concrete blocks
- Finger Piers (Nbr=8; L=412m @-3.00m MSL) / Precast concrete blocks
- Finger Piers (Nbr=4; L=200m @-4.00m MSL) / Precast concrete blocks
- Water Outlets for basin flushing / Precast concrete blocks
- Slipway (Boats ramp)
- Dredging works for quaywalls foundations
- Infrastructure (Electrical and water supply)
- Marine accessories (Mooring bollards, fenders)
- New reclaimed platforms (17,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways

MANARA FISHING PORT (1/2)

60

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Manara
33°54'2" N
35°28'16" E

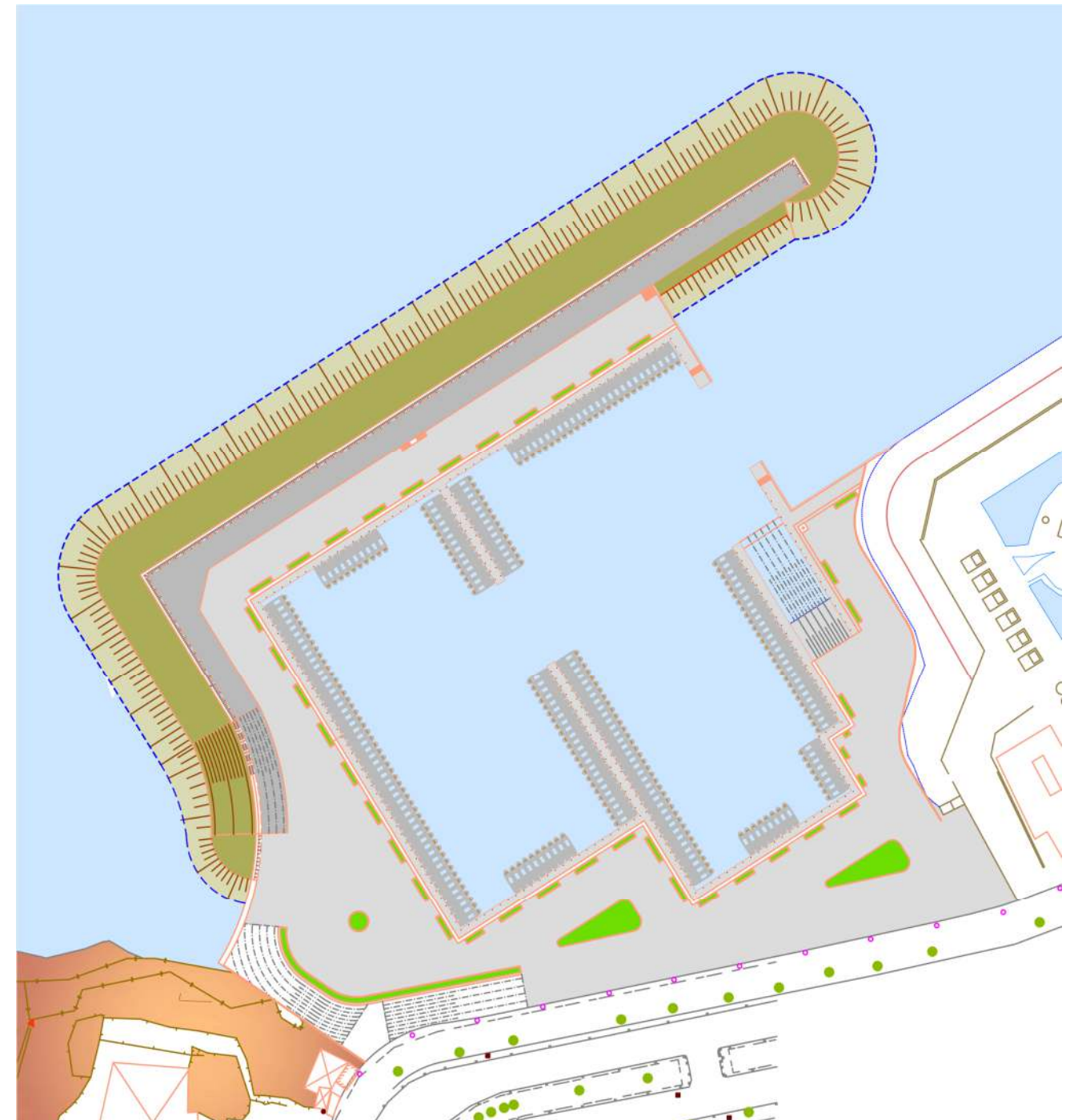
Consultant SEATEC sarl

Manara Fishing Port

Year 2013
Design / Surveying

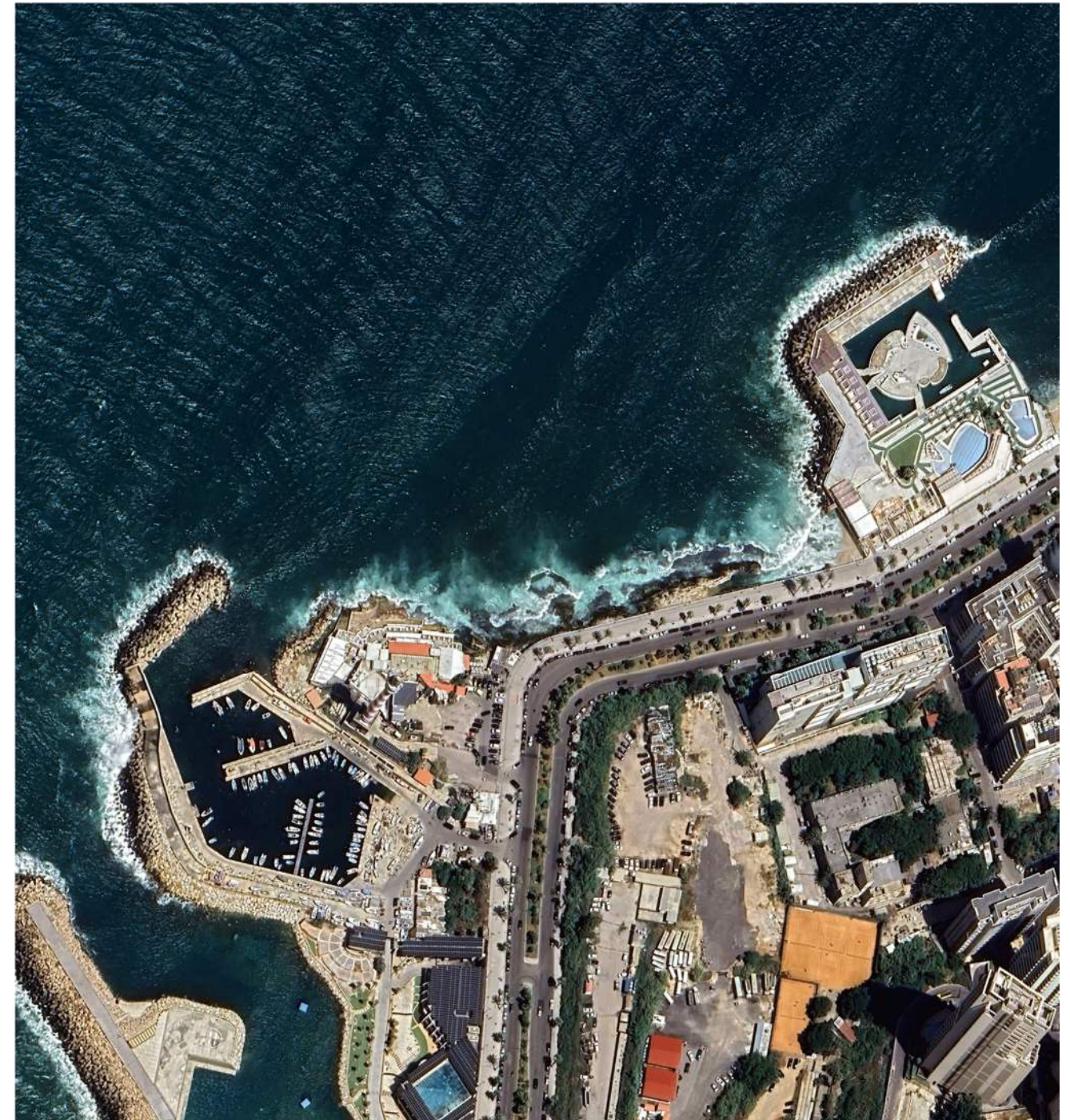
- Master Plan
- Berthing capacity (160 boats)
- Main breakwater (L=319m @max -12.00m MSL, rubble mound breakwater type, armor layer of 16m³ precast concrete Accropodes Blocks Type I)
- RC crown walls
- RC retaining walls
- Quaywalls (L=165m @-2.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=97m @-3.00m MSL) / Precast concrete blocks (Gravity QW)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Manara Fishing Port

- Quaywalls (L=169m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger Pier (Nbr=1; L=46m @-3.00m MSL) / Precast concrete blocks
- Finger Pier (Nbr=1; L=30m @-4.00m MSL) / Precast concrete blocks
- Slipway (Boats ramp)
- Dredging works of basin and quaywalls foundation up to -2.50m MSL
- Dredging works of breakwater toe up to max -15.00m MSL
- RC Platforms (11,350m²)
- DGLMT, Army and Fishermen rooms (Nbr=6; 180m²)
- Fish market (162m²)
- Waste water treatment plant
- Reclaimed areas (23,480m²)
- Water body Basins (13,600m²)
- Topographic survey (8,000m²)
- Bathymetric survey (270,300m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

BYBLOS FISHING PORT REHABILITATION WORKS (1/2)

62

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

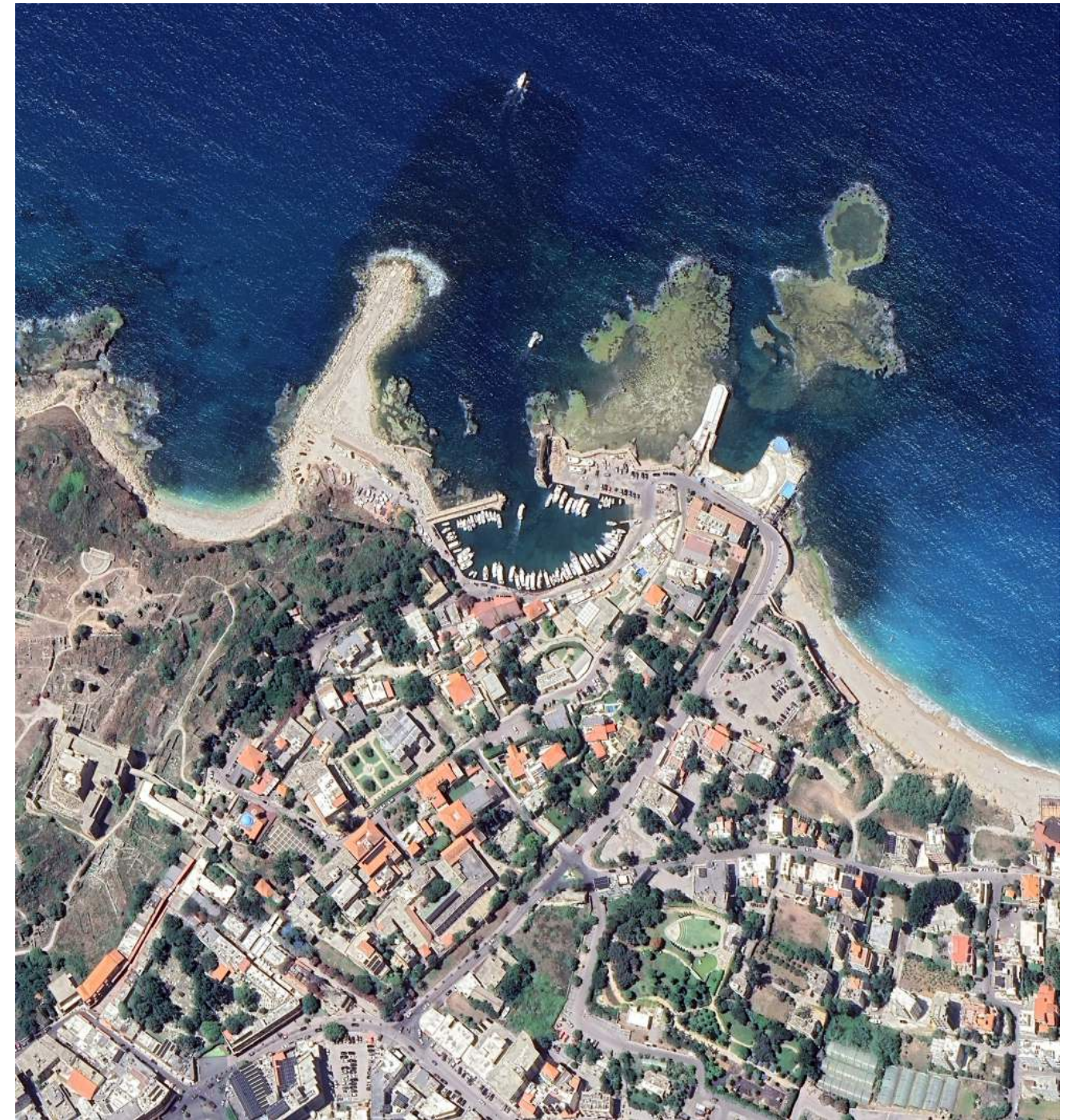
Location LEBANON – Byblos
34°7'17" N
35°38'36" E

Consultant SEATEC sarl

Byblos Fishing Port Rehabilitation Works

Year 2013
Design / Surveying

- Rehabilitation of the existing and heavily damaged Main Breakwater (Rubble mound type, L=210m @max -7.00m)
- Breakwater works: core materials, rocky filter and 12, 14, 16 and 18m³ special precast concrete blocks)
- RC crown wall
- Rehabilitation of the existing and damaged secondary breakwater head at the port entrance (Vertical concrete type)
- New quay walls (L=167m @max -3.50m MSL) / Underwater concrete blocks (Gravity QW)



Ports / Fishing Ports / Dredging / Surveying

Byblos Fishing Port Rehabilitation Works

- RC Platforms (1,200m²)
- RC retaining walls
- Dredging works of inner basin up (5,200m²) to -3.00m MSL for quay walls foundation and breakwater toe
- Marine accessories (Mooring bollards)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Topographic survey (6,000m²)
- Bathymetric survey (65,000m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

CHEKKA FISHING PORT ENTRANCE PROTECTION

64

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

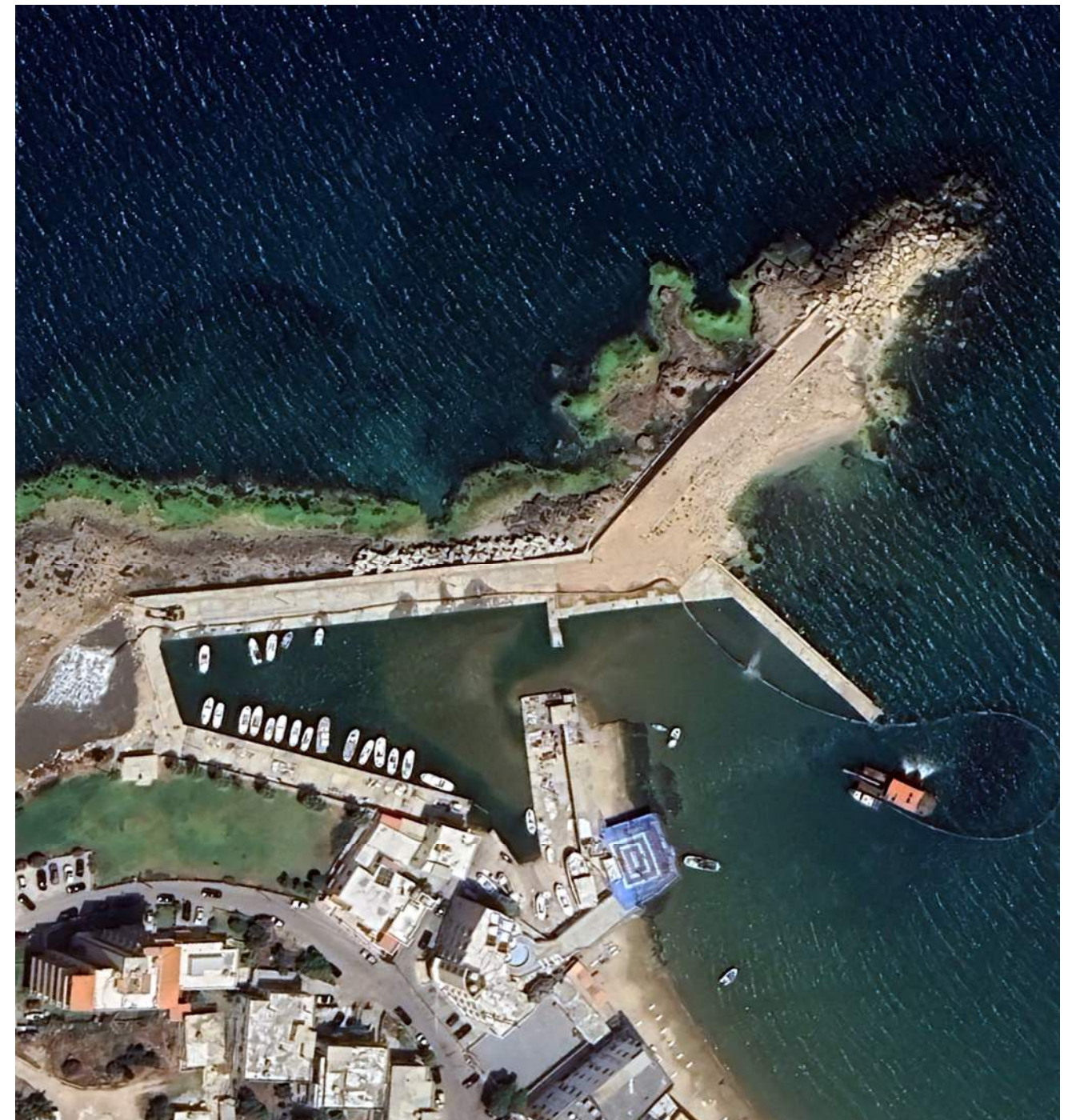
Location LEBANON – Chekka
34°19'41" N
35°43'22" E

Consultant SEATEC sarl

Chekka Fishing Port Entrance Protection

Year 2012
Design

- Chekka Fishing Port Entrance Protection
- Dredging works of Port entrance and part of basin (1,900m²) up to -2.00m MSL
- Port entrance protection with 9m³ concrete Accropodes blocks Type I
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging

DREDGING AT DORA FISHING PORT ENTRANCE - 3

65

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dredging at Dora Fishing Port Entrance - 3

Year 2012
Design / Surveying

- Dredging works of Port entrance (2,800m²) up to -2.50m MSL
- Topographic survey
- Bathymetric survey (2,800m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DREDGING AT CHEKKA FISHING PORT

66

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

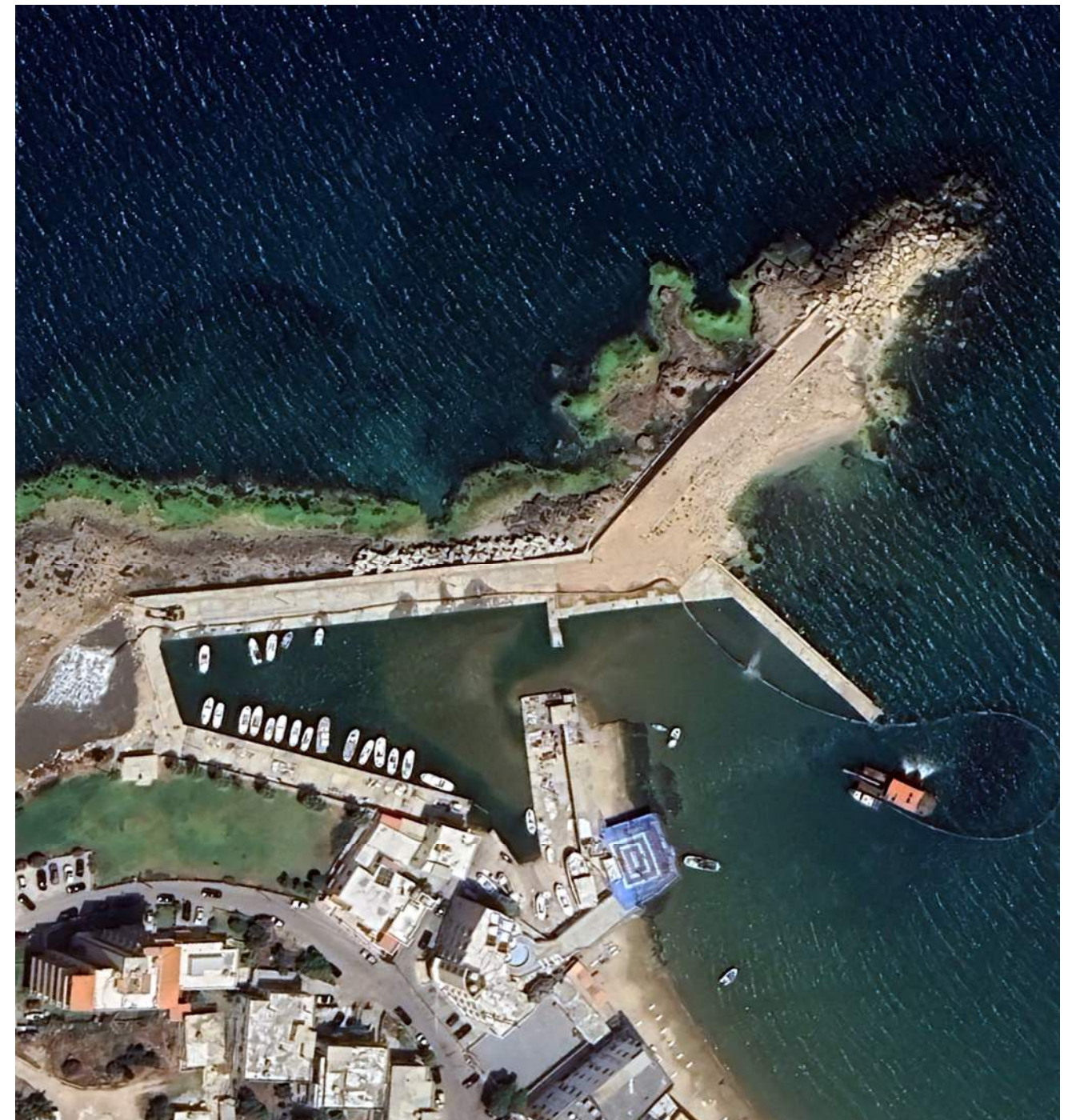
Location LEBANON – Chekka
34°19'41" N
35°43'22" E

Consultant SEATEC sarl

Dredging at Chekka Fishing Port

Year 2012
Design / Surveying

- Dredging works of Port entrance and part of basin (1,900m²) up to -2.00m MSL
- Topographic survey
- Bathymetric survey (1,900m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

NAHR EL KEBIR RIVER BANKS PROTECTION (1/2)

67

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°38'3" N
35°58'41" E

Consultant SEATEC sarl

Nahr el Kebir River Banks Protection

Year 2012
Design / Surveying

- Coastal protection for Nahr el Kebir River banks against flooding
- Sloped rocky protection (L=281m @max -2.50m MSL, core material, rocky filter and armour layer)
- Land reclamation and RC slabs on grade (4,190m²)
- Slipway (Boats ramp)
- Infrastructure (Manholes and storm drainage pipes)
- Dredging for protection toe @max -4.00m MSL
- Topographic survey (9,450m²)
- Bathymetric survey (11,400m²)
- Tender Documents / Drawings / BoQ

Ports / Fishing Ports / Coastal Protections / Revetments / Lift Structures / Slipways / Dredging / Surveying



NAHR EL KEBIR RIVER BANKS PROTECTION (2/2)

68

Naher el Kebir River Banks Protection

Year 2012 - 2013
Works Supervision

- Contractor : SOTEG sarl
- Duration : 14 months



Ports / Fishing Ports / Coastal Protections / Revetments / Lift Structures / Slipways / Dredging / Surveying

AARIDA FISHING PORT (1/2)

69

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°37'40" N
35°58'38" E

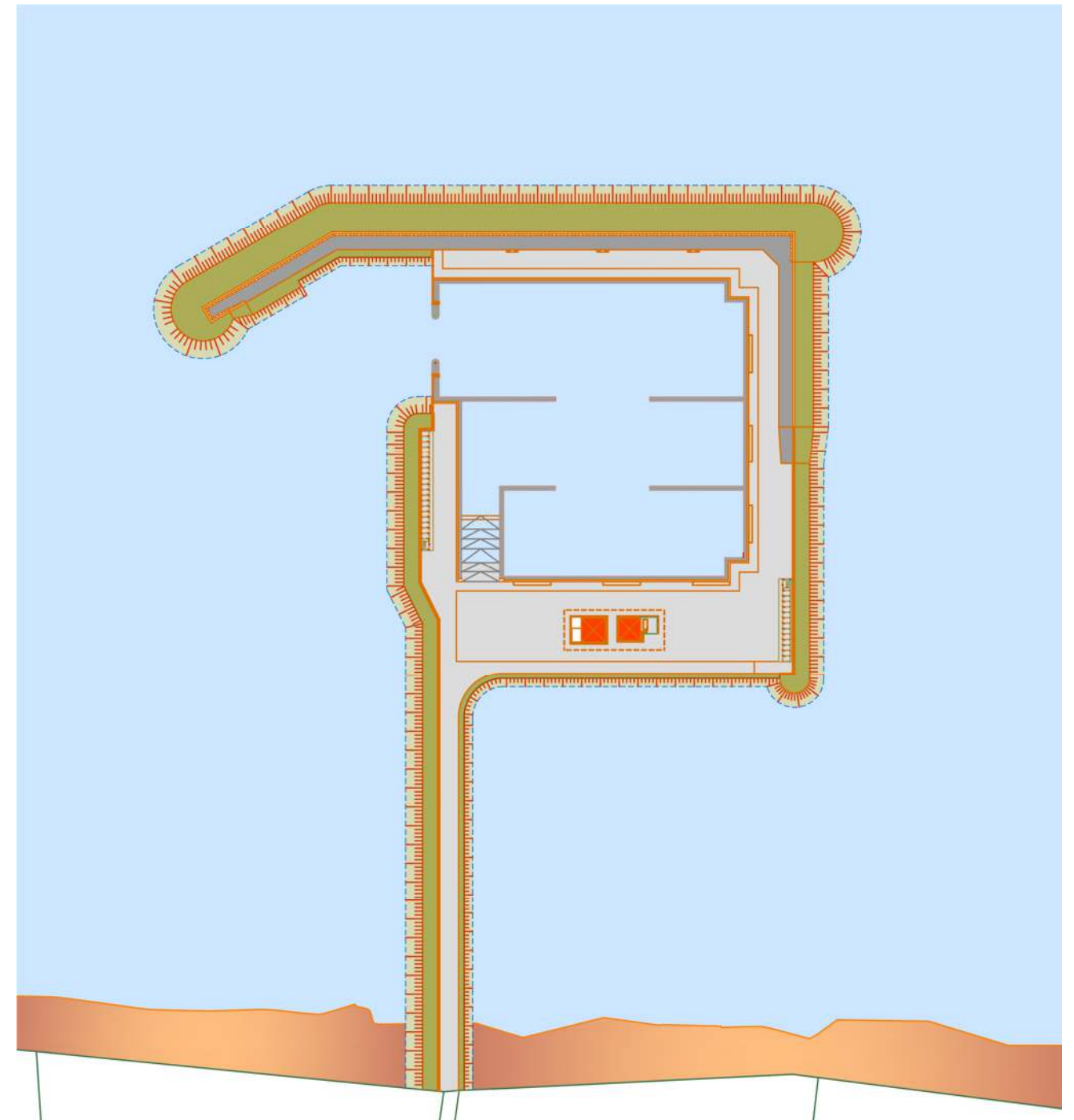
Consultant SEATEC sarl

Aarida Fishing Port

Year 2012
Design / Surveying

- Master Plan
- Berthing capacity (490 boats)
- Main Breakwater (Rubble mound type, L=693m @max -6.50m MSL, 16m³ Accropodes blocks Type 1 Armor layer)
- Secondary Breakwater (Rubble mound type, L=111m @max -2.00m MSL with Rocky protection and L=280m @max -5.00m with 9m³/16m³ Accropodes blocks Type 1 Armor layer)
- RC crown wall
- Quay walls (L=446m @-2.00m MSL) / Precast concrete blocks (Gravity QW)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Aarida Fishing Port

- Quay walls (L=222m @-4.50m MSL) / Precast concrete blocks (Gravity QW)
- Finger piers (Nbr=4; L=175m @-3.00m MSL) / Precast concrete blocks
- Finger piers (Nbr=2; L=112m @-4.50m MSL) / Precast concrete blocks
- 2 Water Outlets for basin flushing (Total L=109m)
- Slipway (Boat ramp)
- RC platforms (17,700m²)
- Asphalted platforms (7,700m²)
- Dredging works for quay walls foundations and breakwater toe
- RC retaining sea walls
- Marine accessories (Mooring bollards, fenders)
- Infrastructure (Electrical supply, pipes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, tanks)
- Fishermen rooms (Nbr=30; 658m²)
- Rooms for Army, DGLMT and Ministry of agriculture (Nbr=3; 56m²)
- Fishermen syndicate building (204m²)
- Fish market (704m²)
- Waste water treatment plant
- Reclaimed area (68,500m²)
- Basin (31,220m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

DORA FISHING PORT (1/3)

71

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'56" N
35°33'3" E

Consultant SEATEC sarl

Dora Fishing Port

Year 2012
Design / Surveying

- Master Plan
- Berthing capacity (520 boats)
- Sloped rocky protection of the reclaimed platforms (L=230m @ max-4.00m MSL)
- Quay walls (L=910m @ -3.00m MSL) / Underwater concrete blocks (Gravity QW)
- Finger Piers (Nbr=3; L=185m @ -3.00m MSL) / Precast concrete blocks



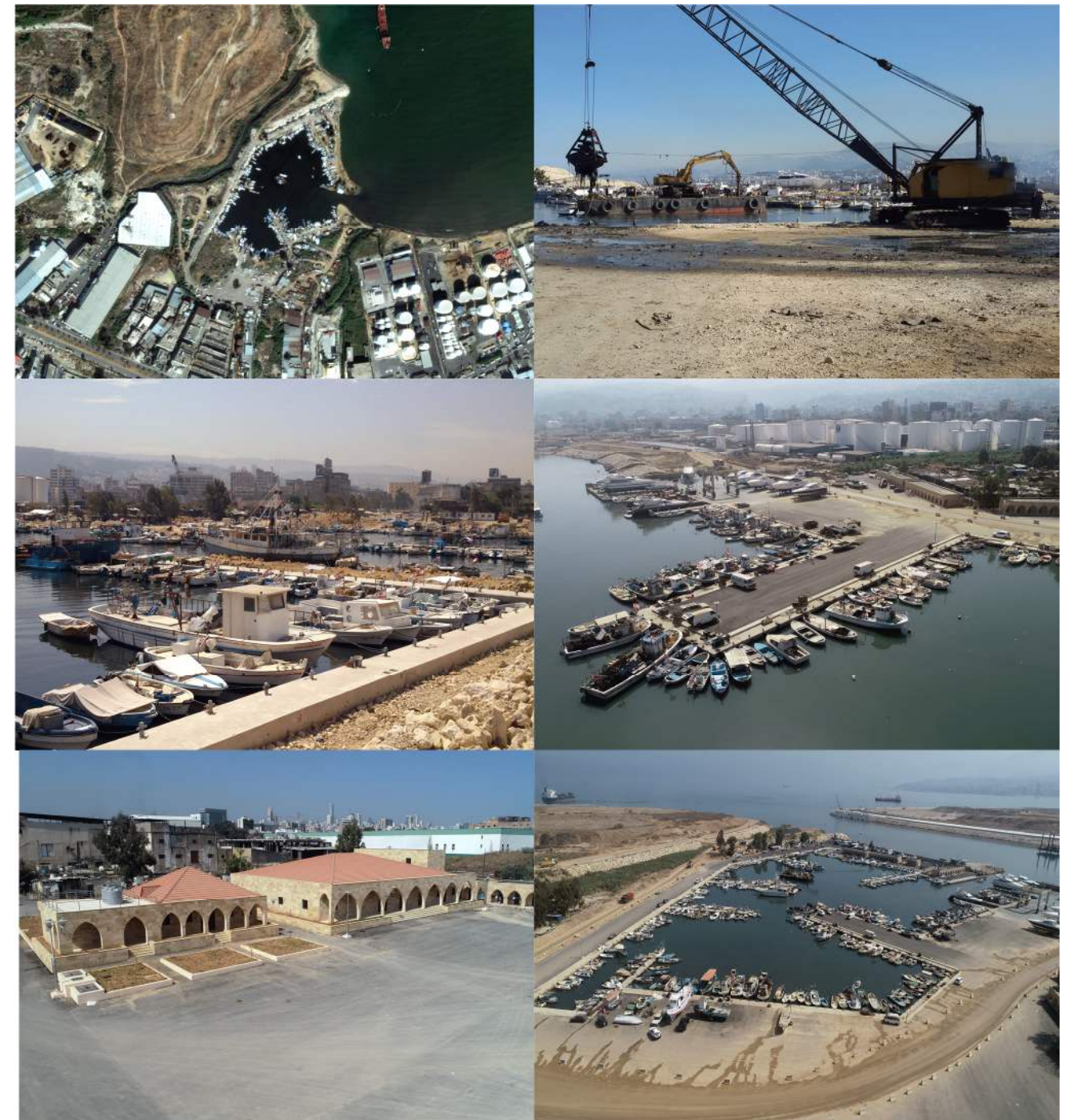
Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

DORA FISHING PORT (2/3)

72

Dora Fishing Port

- Water Outlet for basin flushing (L=51.00m) / Precast concrete blocks
- Slipway (Boats ramp)
- Boat Hoist (100T capacity) / Precast concrete blocks (L=21.00m @ -3.00m MSL)
- RC Platforms (3,395m²)
- Bituminous Platforms (34,300m²)
- Excavation works
- Dredging works of basin (31,220m²) and entrance channel up to -3.00m MSL and for quay walls foundations and rocky protection
- RC retaining walls
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marine accessories (Mooring bollards)
- Fishermen rooms (Nbr=58; 1,184m²)
- Army and Ministry of agriculture rooms (Nbr=6; 185m²)
- Directorate general of land and maritime transport room (58m²)



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

DORA FISHING PORT (3/3)

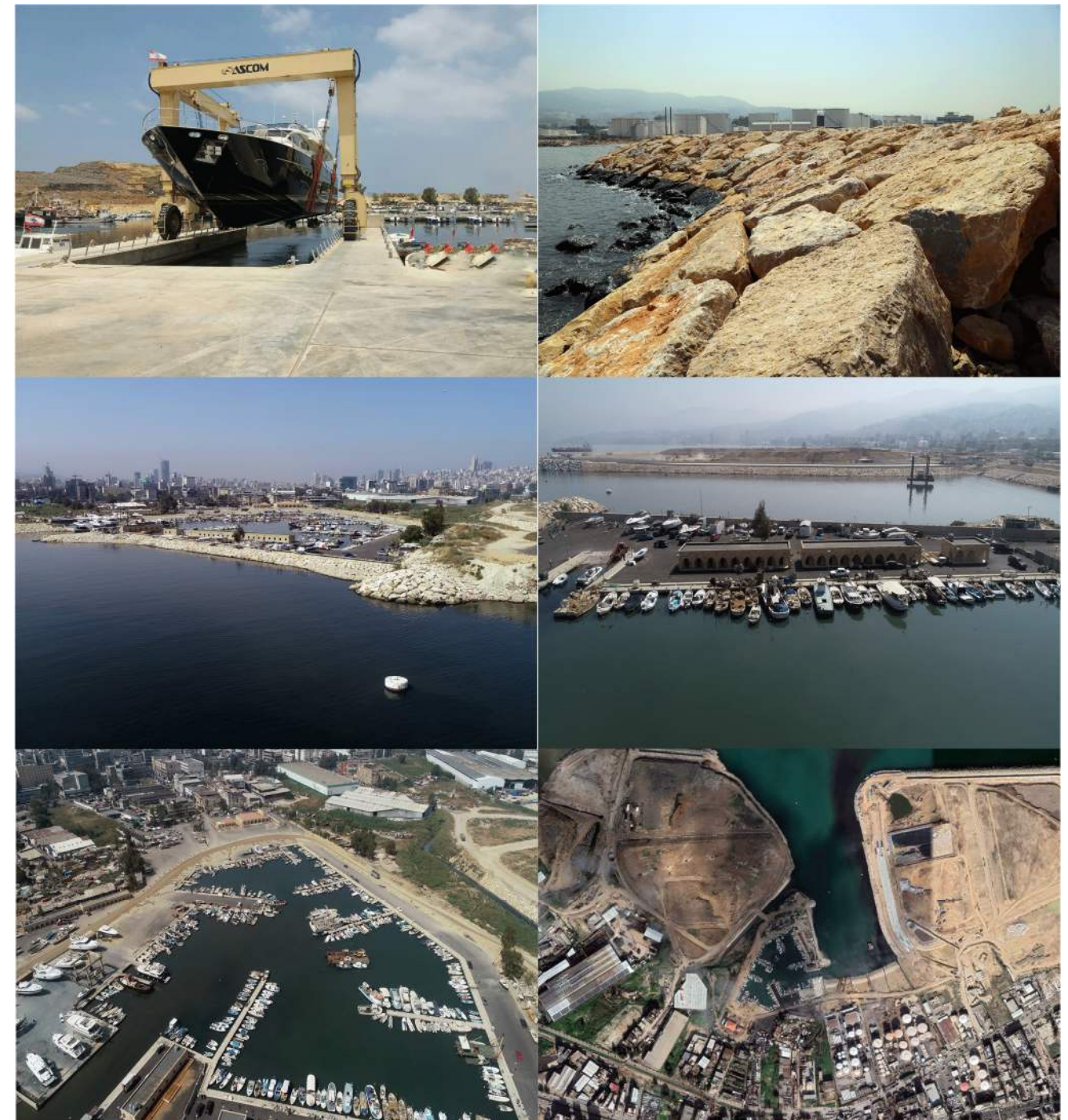
73

Dora Fishing Port

- Fishermen syndicate building (204m²)
- Fish market (704m²)
- Stone cladding
- Waste water treatment plant
- Reclaimed platforms (52,460m²)
- Basin (31,220m²)
- Topographic survey (74,800m²)
- Bathymetric survey (55,300m²)
- Tender Documents / Drawings / BoQ

Year 2012 - 2019
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 75 months



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

ACCESS ROAD TO KFARABIDA FISHING PORT

74

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

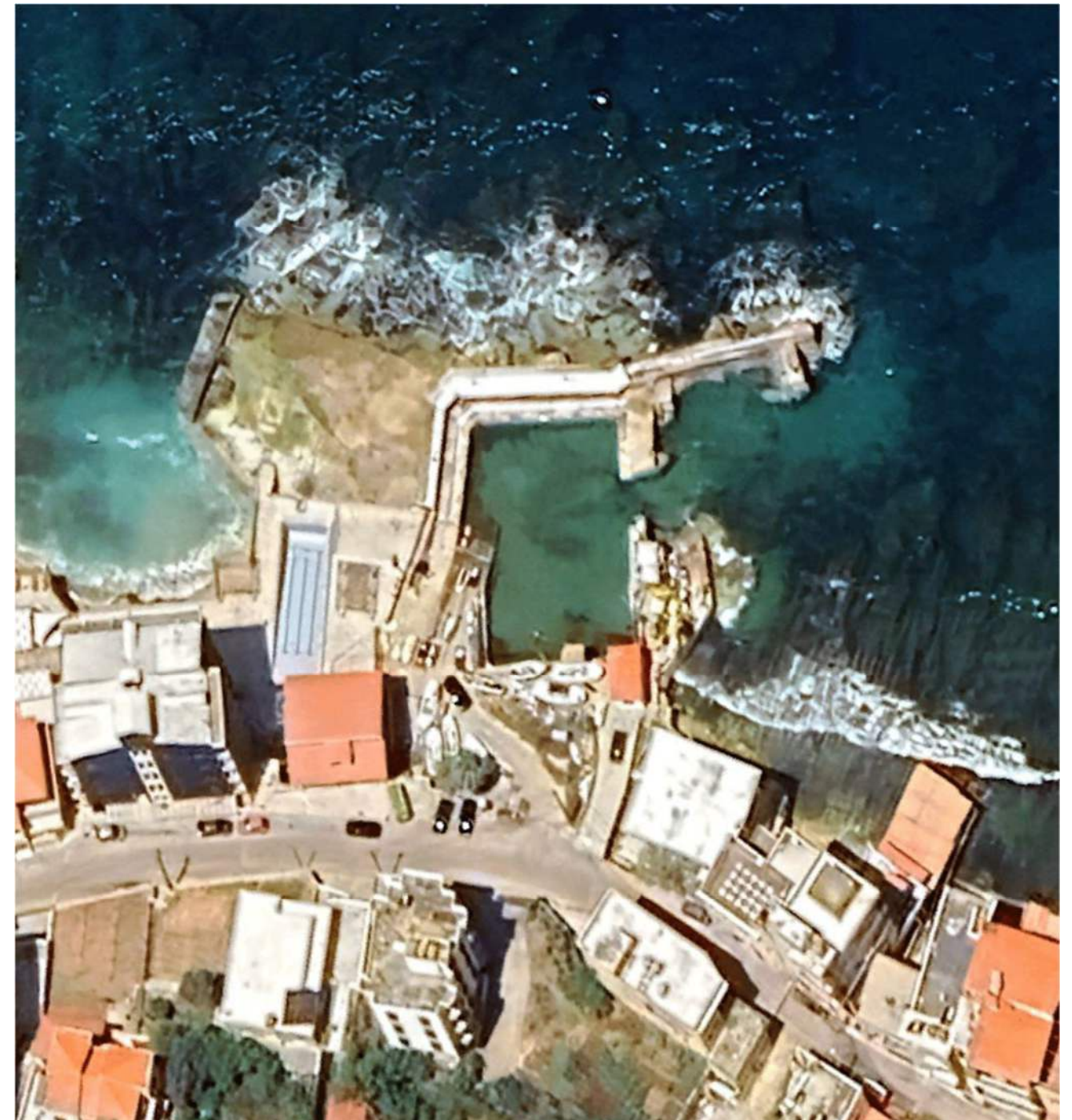
Location LEBANON – Kfarabida
34°13'38" N
35°39'17" E

Consultant SEATEC sarl

Access road to Kfarabida Fishing Port

Year 2011
Design / Surveying / Permitting

- Decree drawing



Ports / Fishing Ports / Surveying

HIRAN FISHING PORT (1/2)

75

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Tripoli / Mina
34°27'16" N
35°48'28" E

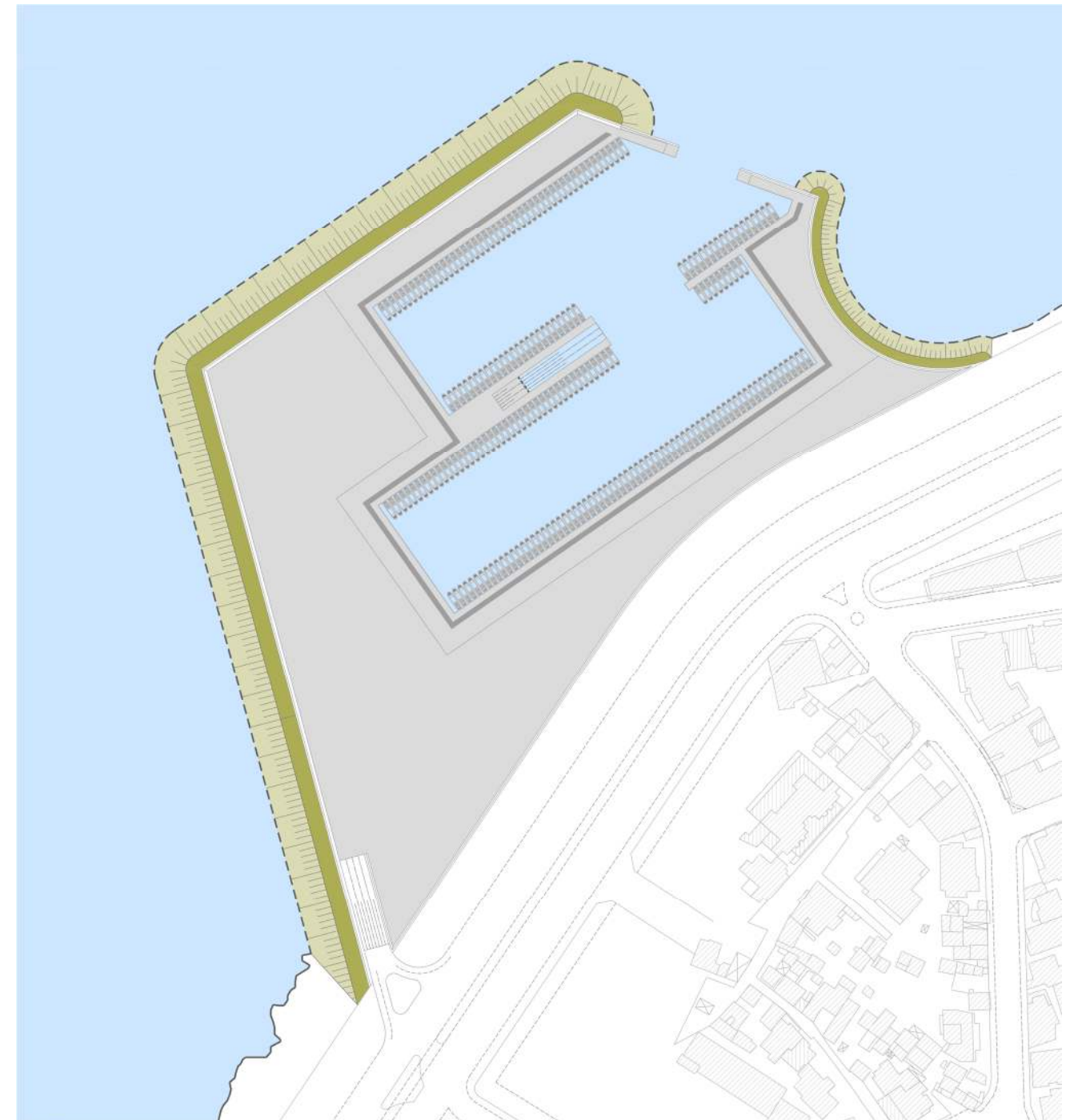
Consultant SEATEC sarl

Hiran Fishing Port

Year 2011
Design / Surveying

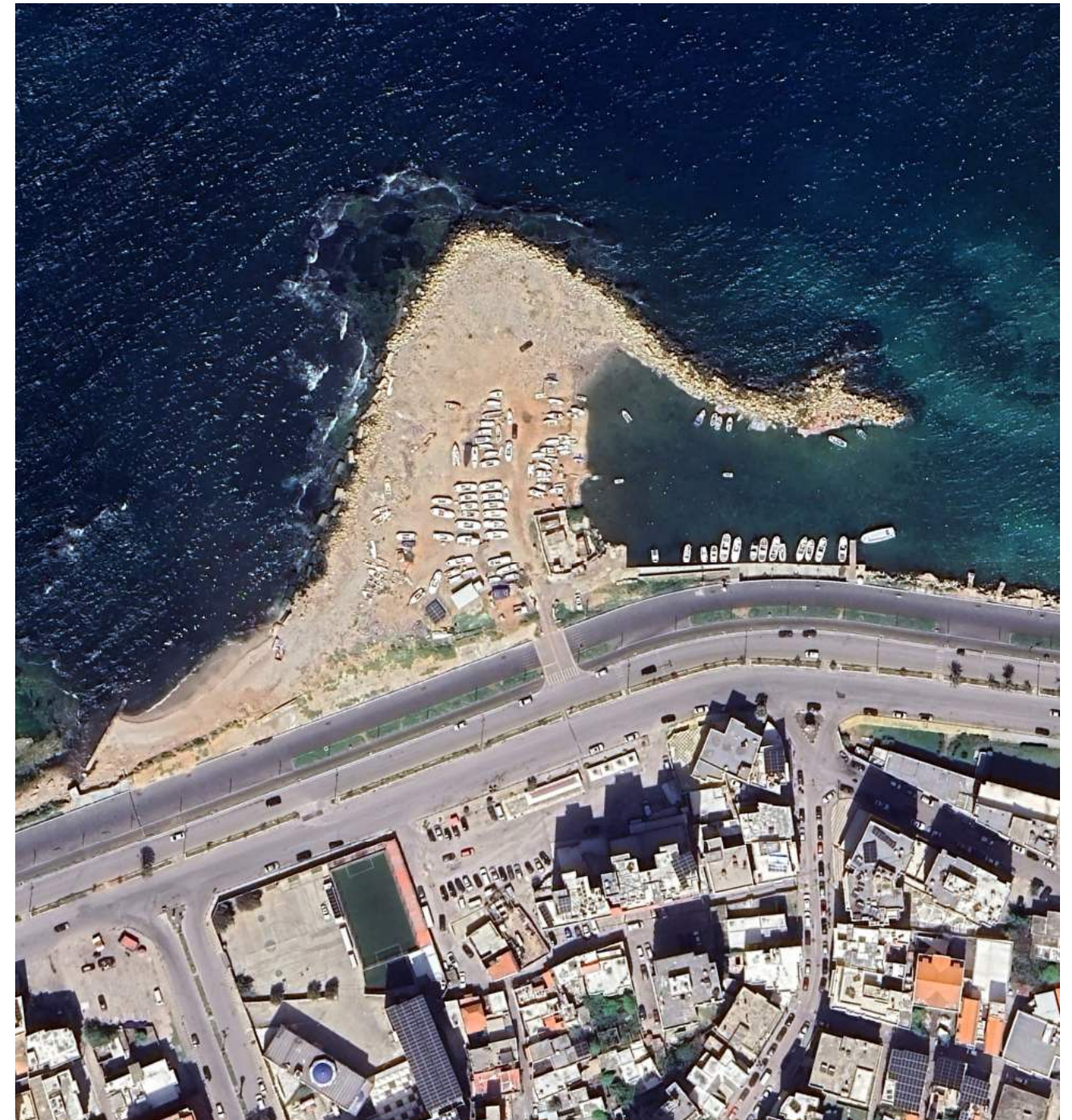
- Master Plan
- Berthing capacity (150 boats)
- Main breakwater (Rubble mound type, L=210m @max - 5.00m, core material, rocky filter and armour layer)
- Main breakwater (Underwater concrete, L=45m @max - 3.00m)
- Secondary breakwater (Rubble mound type, L=75m @max -3.00m, core material, rocky filter and armour layer)
- RC crown wall

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Hiran Fishing Port

- Quaywalls (L=199m @-1.50m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=124m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger pier (L=48m @-1.50m MSL) / Precast concrete blocks
- Finger pier (L=48m @-3.00m MSL) / Precast concrete blocks
- Slipway (Boat ramp)
- Concrete platforms (2,545m²)
- Asphalted platforms (12,545m²)
- Dredging works of inner basin up to -1.50m MSL
- Reclaimed area (18,390m²)
- Water body basin (7,400m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

DREDGING AT DORA FISHING PORT ENTRANCE - 2

77

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dredging at Dora Fishing Port Entrance - 2

Year 2011
Design / Surveying

- Dredging works of Port entrance (1,425m²) up to -3.00m MSL
- Topographic survey
- Bathymetric survey (2,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DORA FISHING PORT

78

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'56" N
35°33'3" E

Consultant SEATEC sarl

Dora Fishing Port

Year 2011
Design

- Master Plan update
- Rehabilitation and works completion of existing fishing port



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

DALIEH FISHING PORT (1/3)

79

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dalieh
33°53'12" N
35°28'19" E

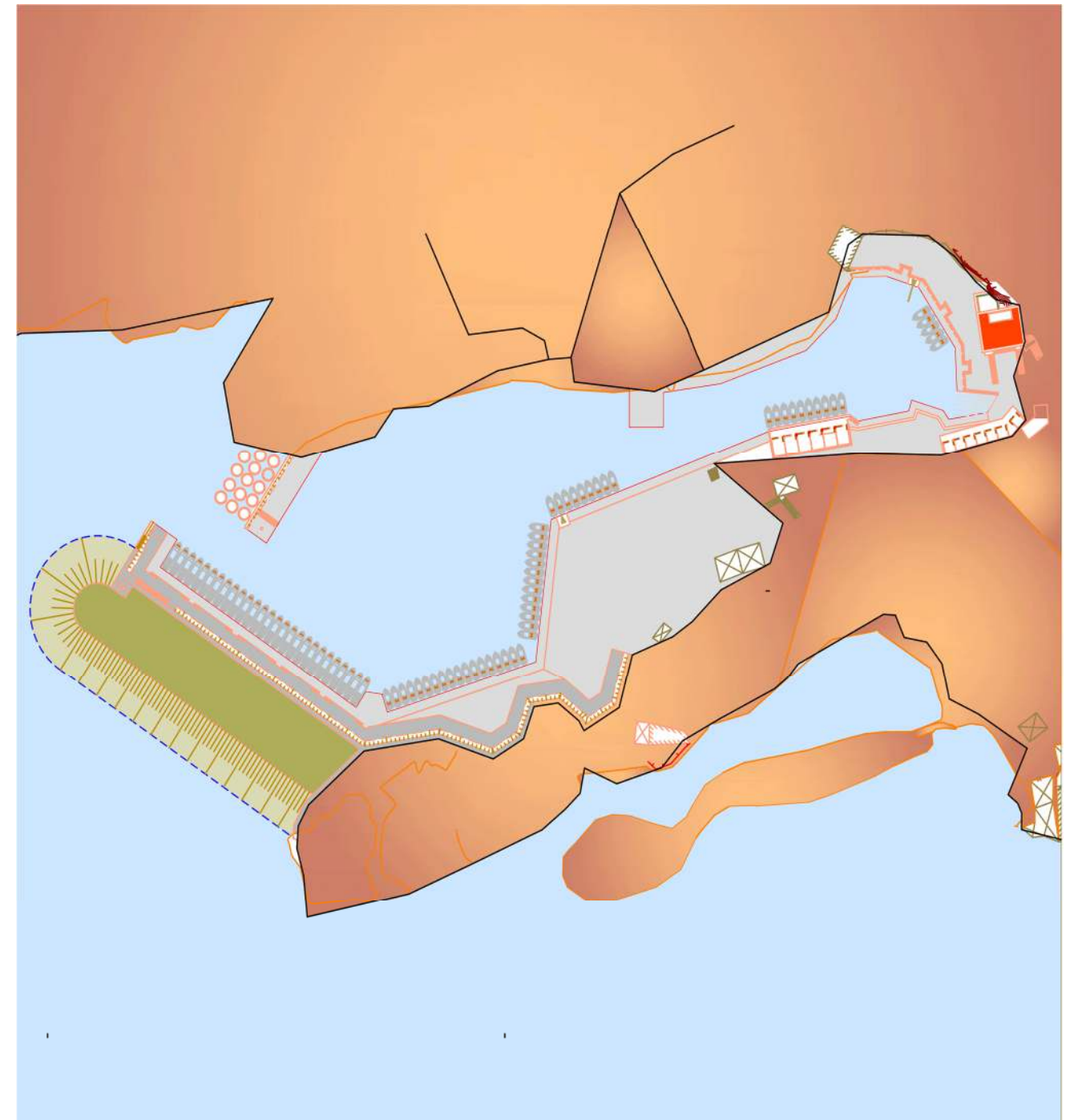
Consultant SEATEC sarl

Dalieh Fishing Port

Year 2011
Design / Surveying

- Master Plan
- Berthing capacity (105 boats)
- Excavation of existing port infrastructure
- Demolition of existing building and fishermen rooms
- Dismantling of existing concrete Antifer cubic blocks
- Main breakwater L=63m @max -11.00m MSL (Rubble mound breakwater type, core material, rocky filter and armor layer of 16m³ precast concrete Accropodes Blocks Type I)
- Secondary breakwater L=20m @max -8.50m MSL (Vertical underwater concrete type with additional revetment of 16m³ precast concrete Accropodes Blocks Type I)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



DALIEH FISHING PORT (2/3)

80

Dalieh Fishing Port

- RC crown walls
- RC retaining walls
- Quaywalls (L=255m @-2.00m MSL) / Underwater concrete blocks
- Quaywall (L=54m @-3.00m to -9.00m MSL) / Underwater concrete blocks
- Slipway (Boats ramp)
- RC Platforms (4,110m²)
- Dredging works of basin @-2.00m MSL and quaywalls/armor layer foundations
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Marine accessories (Mooring bollards, fenders)
- DGLMT, Army and Fishermen rooms (Nbr =14; 135m²)
- Fishermen Syndicate building (340m² / 4 stories)
- Reclaimed area (6,000m²)
- Water body (5,700m²)
- Topographic survey (11,600m²)
- Bathymetric survey (21,900m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

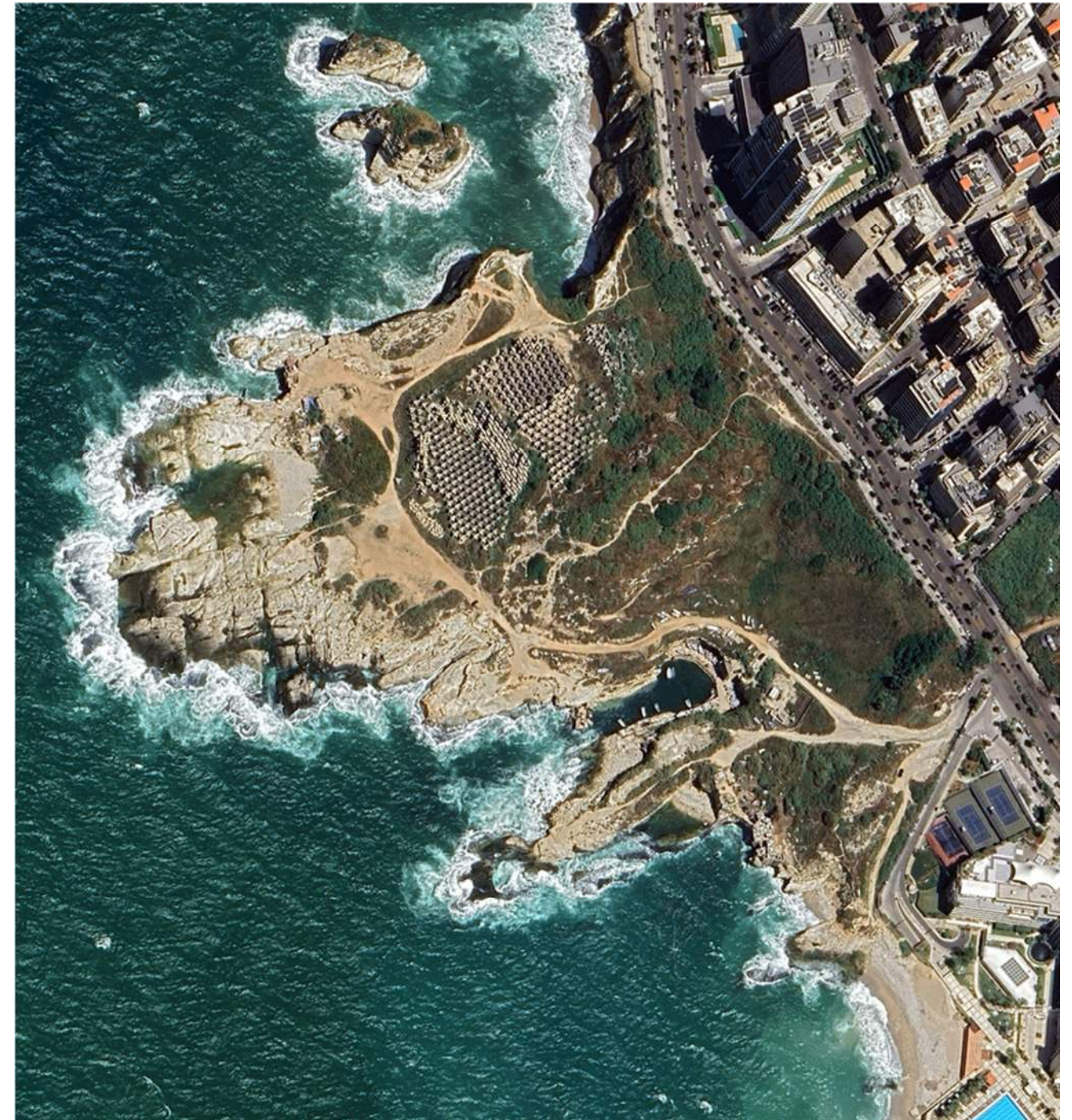
DALIEH FISHING PORT (3/3)

81

Dalieh Fishing Port

Year 2012 - 2013
Works Supervision

- Contractor : Al-Jihad for Trading and Commerce
JV
Milad Abou Rjeily Est. General Contracting
- Duration : 14 months



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

DORA FISHING PORT

82

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dora Fishing Port

Year 2011
Design

- Master Plan update
- Rehabilitation and works completion of existing fishing port



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

DREDGING AT NAHER EL KEBIR - 1

83

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°38'2" N
35°58'32" E

Consultant SEATEC sarl

Dredging at Naher el kebir - 1

Year 2011
Design / Surveying

- Dredging works of Naher el Kebir river mouth and channel
- Topographic survey (1,000m²)
- Bathymetric survey (3,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

HALATE FISHING PORT (1/2)

84

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Halate
34°4'58" N
35°38'53" E

Consultant SEATEC sarl

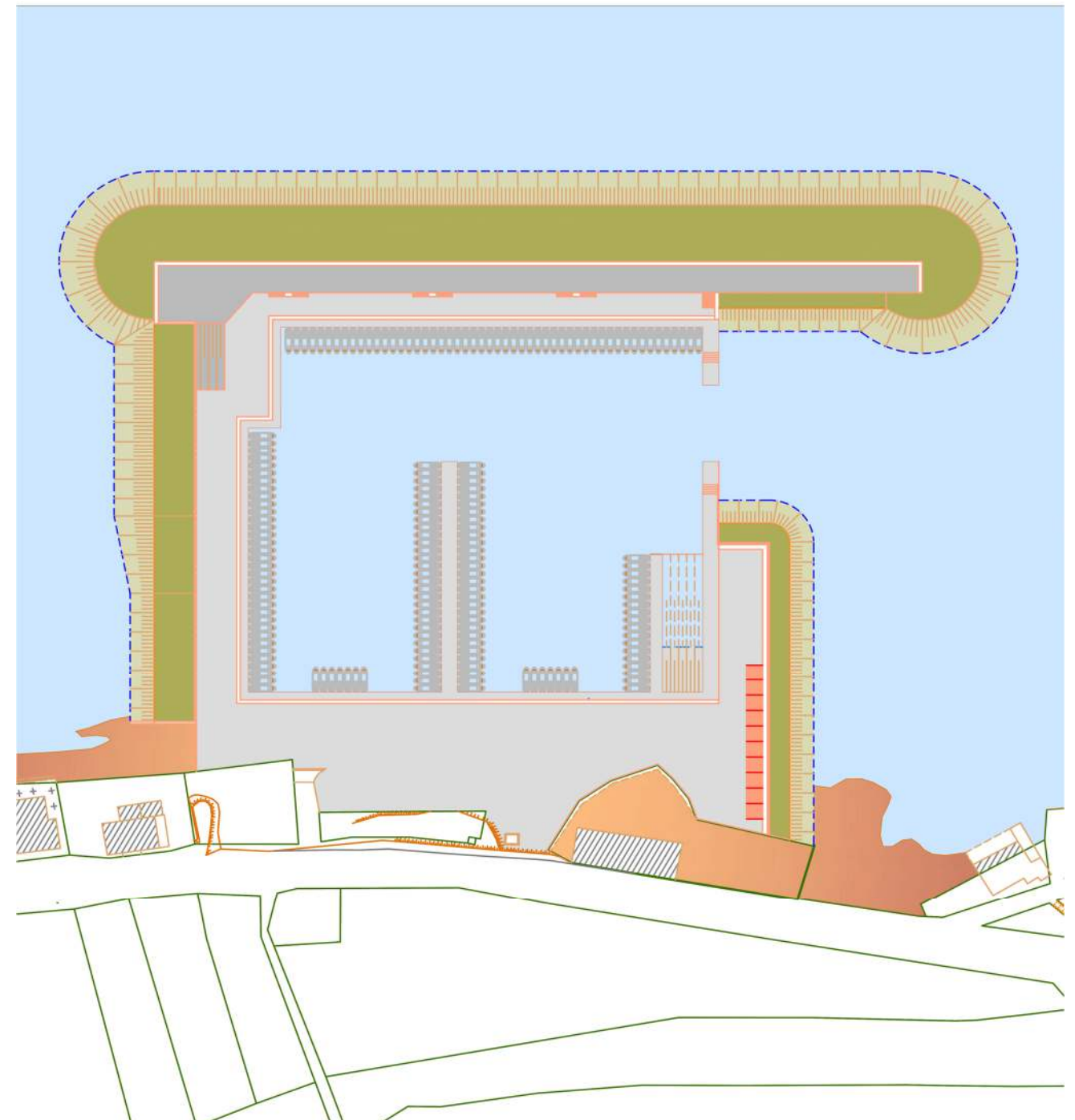
Halate Fishing Port

Year 2010 – 2013 – 2014
Design / Surveying
• Master Plan

Year 2015
Design / Surveying

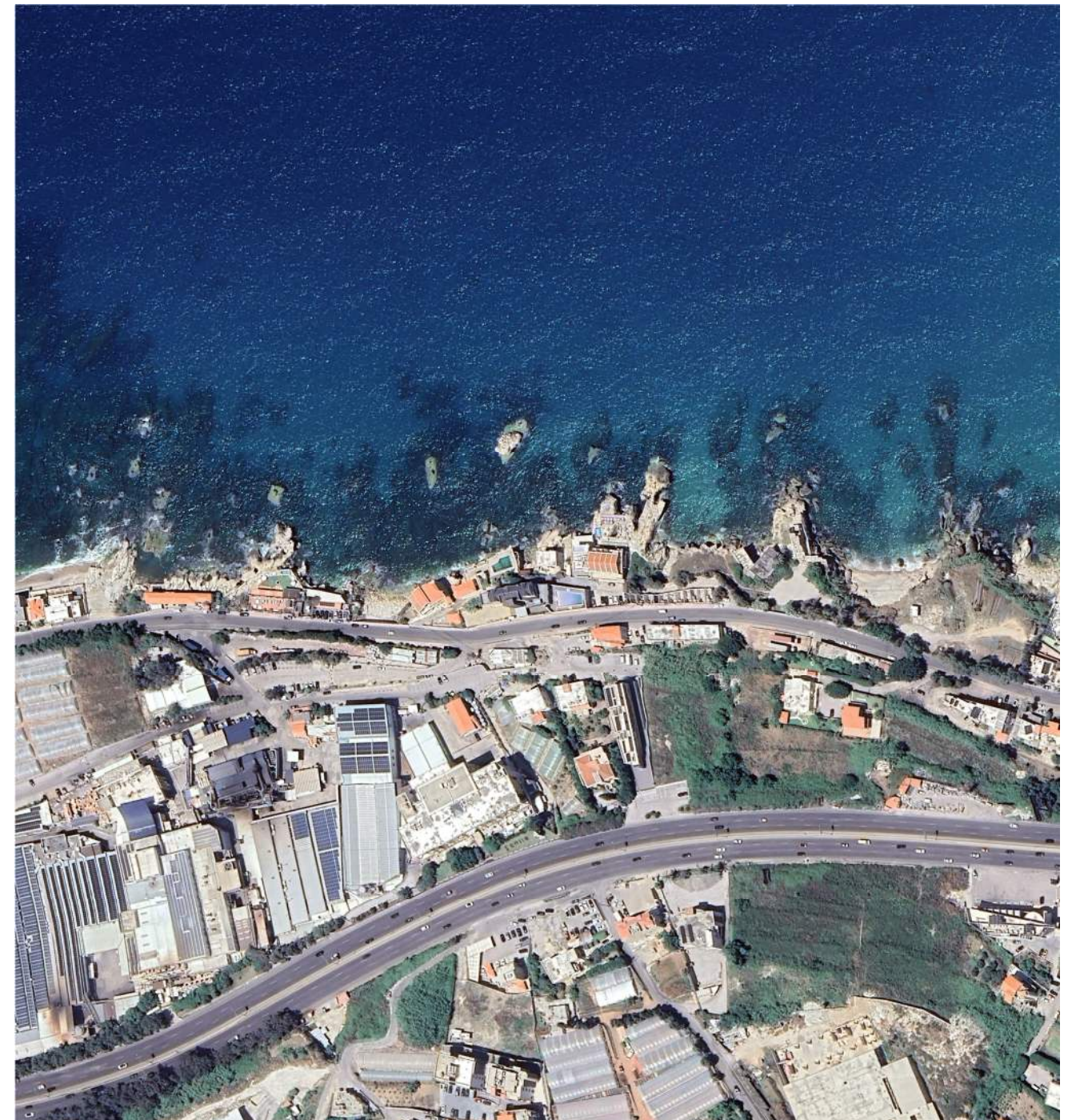
- Master Plan update
- Berthing capacity (162 boats)
- Main breakwater (Rubble mound type; L=314m @max-9.00m MSL / 9 and 16m3 precast concrete Accropodes blocks for armor layer)
- Secondary breakwater (Rubble mound type; L=62m @max -5.00m MSL / rocky protection)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Halate Fishing Port

- RC seawall (L=47m) with underwater concrete foundation
- Quaywalls (L=167m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=25m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=146m @-4.00m MSL) / Precast concrete blocks (Gravity QW)
- 2 Finger piers (L=60m @-3.00m MSL) / Precast concrete blocks
- Marine accessories (Mooring bollards, fenders)
- Slipway (Boat ramp / L=36.00m)
- Bituminous / RC Platforms (11,700m²)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- Fishermen rooms (160m²)
- Fueling station
- Basin (10,000m²)
- Dredging works for basin, quaywalls foundations and breakwater toe
- Topographic survey (12,800m²)
- Bathymetric survey (41,500m²)
- Drawings / BoQ



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

DREDGING AT DORA FISHING PORT ENTRANCE - 1

86

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dredging at Dora Fishing Port Entrance - 1

Year 2010
Design / Surveying

- Dredging works of Port entrance over (1,425m²) up to - 3.00m MSL
- Topographic survey
- Bathymetric survey (2,000m²)
- Drawings / BoQ

Year 2010
Works Supervision

- Contractor : Tannous Geagea Est. for contracting and public works
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



BYBLOS FISHING PORT

87

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

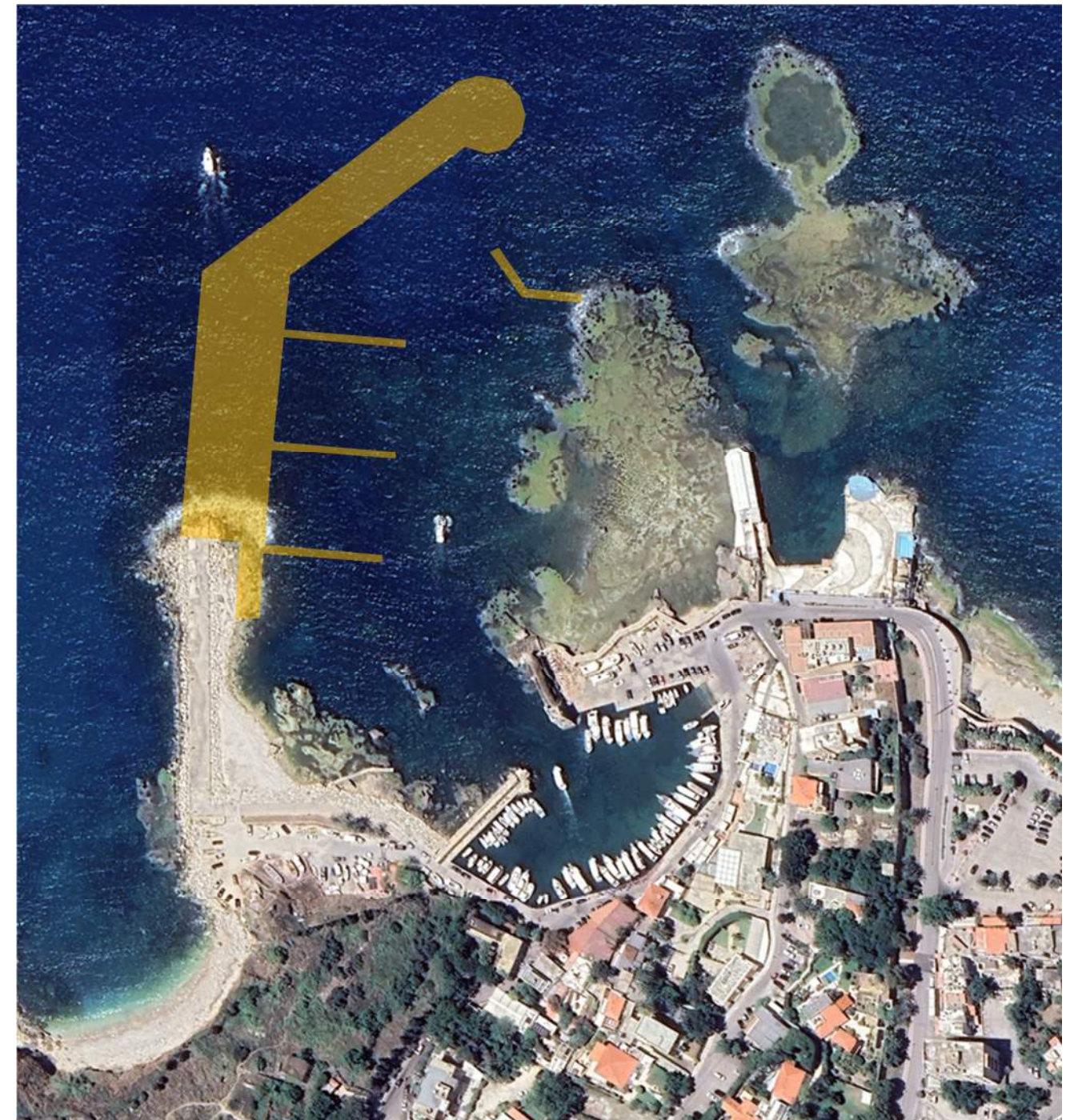
Location LEBANON – Byblos
34°7'17" N
35°38'36" E

Consultant SEATEC sarl

Byblos Fishing Port

Year 2010 – 2011 – 2012
Design

- Port Master Plan
- Berthing capacity (200 boats)



Ports / Fishing Ports

AMCHIT FISHING PORT – PHASE 2 (1/2)

88

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Amchit
34°9'8" N
35°37'41" E

Consultant SEATEC sarl

Amchit Fishing Port – Phase 2

Year 2011
Design / Surveying

- Port Master Plan
- Berthing capacity (120 boats)
- Rehabilitation of the existing and heavily damaged Main Breakwater (Rubble mound type, L=198m; max depth @max -7.75m)
- Breakwater works: core materials, rocky filter and 9 and 16m³ concrete Accropodes blocks Type 1)
- RC crown wall
- Quay walls (L=208m @max -4.50m MSL) / Underwater concrete blocks (Gravity QW)
- Finger Piers (L=45m @max -4.50m MSL) / Underwater concrete blocks

Ports / Fishing Ports / Dredging / Surveying



AMCHIT FISHING PORT – PHASE 2 (2/2)

89

Amchit Fishing Port – Phase 2

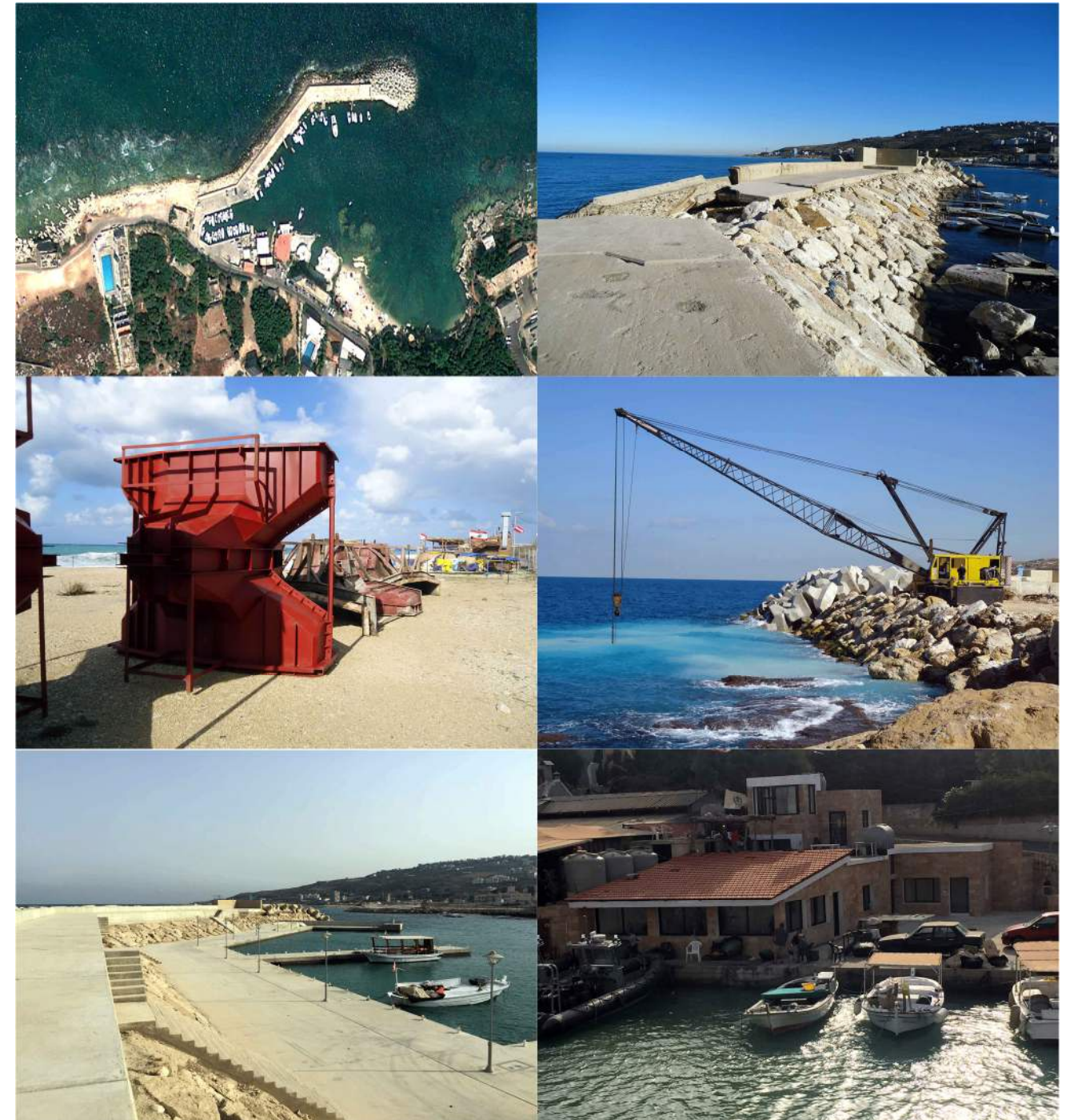
- RC Platforms (2,360m²)
- RC retaining walls (H_{max}=3.90m)
- Excavation for inner basin widening
- Dredging works of inner basin up to -2.50m MSL, for quay walls foundation and breakwater toe
- Marine accessories (Mooring bollards)
- Infrastructure (Electrical supply, pipes, manholes, lighting poles)
- Infrastructure (Water supply, Pumps, pipes, manholes, tanks)
- New Fishermen syndicate headquarters, rooms and fish market (98m²)
- Stone cladding
- Petrol station
- Topographic survey (5,000m²)
- Bathymetric survey (12,000m²)
- Tender Documents / Drawings / BoQ

Year 2012 – 2015

Works Supervision

- Contractor : Khoury Contracting Company sarl (KCC)
- Duration : 34 months

Ports / Fishing Ports / Dredging / Surveying



BERBARA FISHING PORT LOW CRESTED PROTECTION

90

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Berbara
34°11'33" N
35°37'57" E

Consultant SEATEC sarl

Berbara Fishing Port Low Crested Protection

Year 2010
Design

- Low crested breakwater for Berbara Fishing Port using 16m³ concrete Accropodes blocks Type 1
- Drawings / Specifications / BoQ



Ports / Fishing Ports

DORA FISHING PORT

91

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'56" N
35°33'3" E

Consultant SEATEC sarl

Dora Fishing Port

Year 2010
Design

- Master Plan
- Berthing capacity (520 boats)



Ports / Fishing Ports / Lift Structures / Slipways / Hoists / Dredging / Surveying

AARIDA FISHING PORT

92

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°37'40" N
35°58'38" E

Consultant SEATEC sarl

Aarida Fishing Port

Year 2010
Conceptual Design

- Master Plan
- Berthing capacity (490 boats)



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

AARIDA COASTAL SURVEY

93

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Aarida
34°37'40" N
35°58'38" E

Consultant SEATEC sarl

Aarida Coastal Survey

Year 2010
Surveying

- Topographic survey (30,000m²)
- Bathymetric survey (700,000m²)
- Drawings



Ports / Fishing Ports / Surveying

DREDGING AT SARAFAND FISHING PORT

94

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Sarafand
33°28'14" N
35°18'20" E

Consultant SEATEC sarl

Dredging at Sarafand Fishing Port

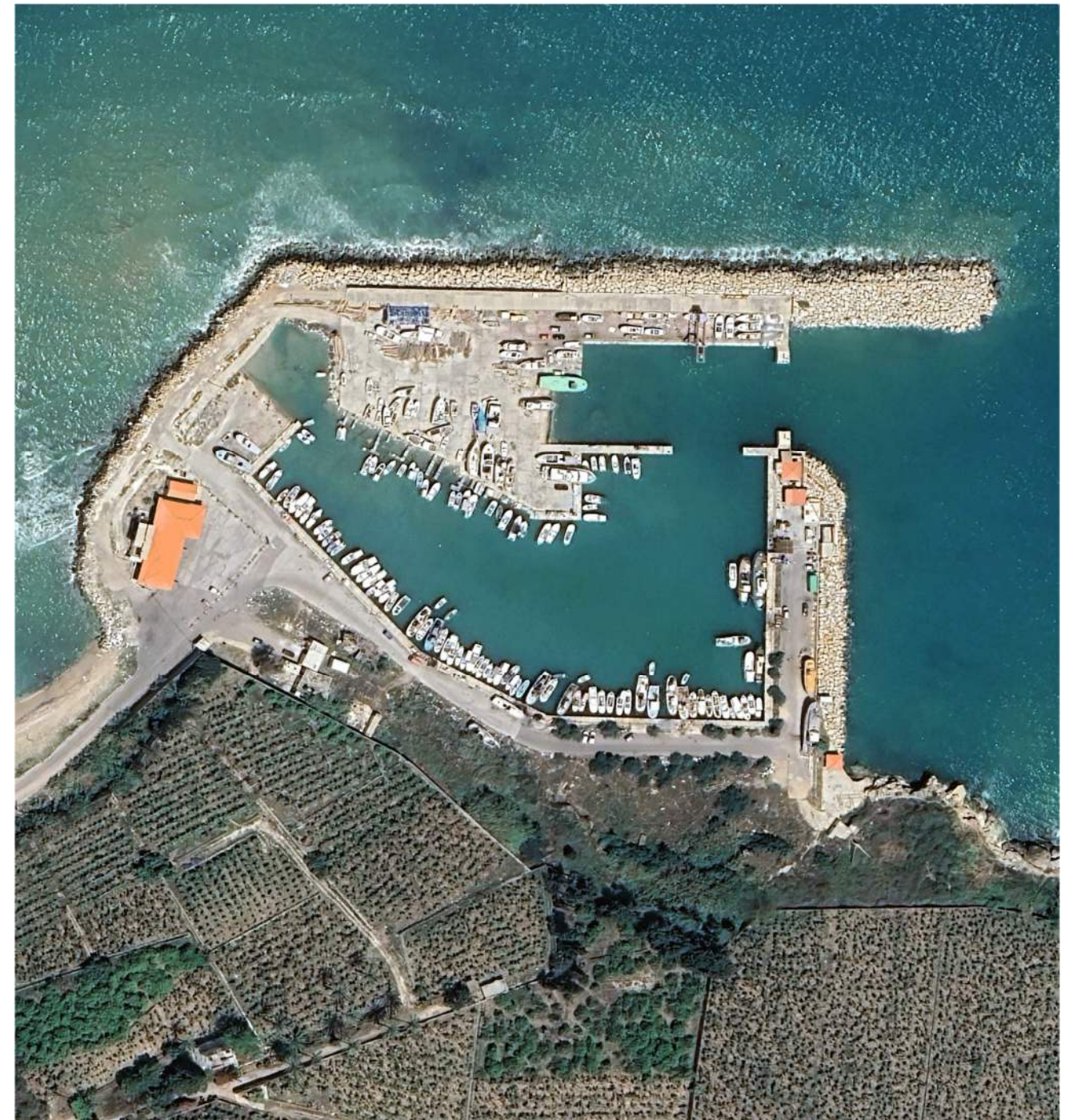
Year 2010
Design / Surveying

- Dredging works in Port basin (1,800m²) up to -1.75m MSL
- Topographic survey
- Bathymetric survey (1,800m²)
- Drawings / BoQ

Year 2010
Works Supervision

- Contractor : Middle East Dredging Co.
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



BOATS STORAGE STRUCTURE AT DALIEH FISHING PORT

95

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

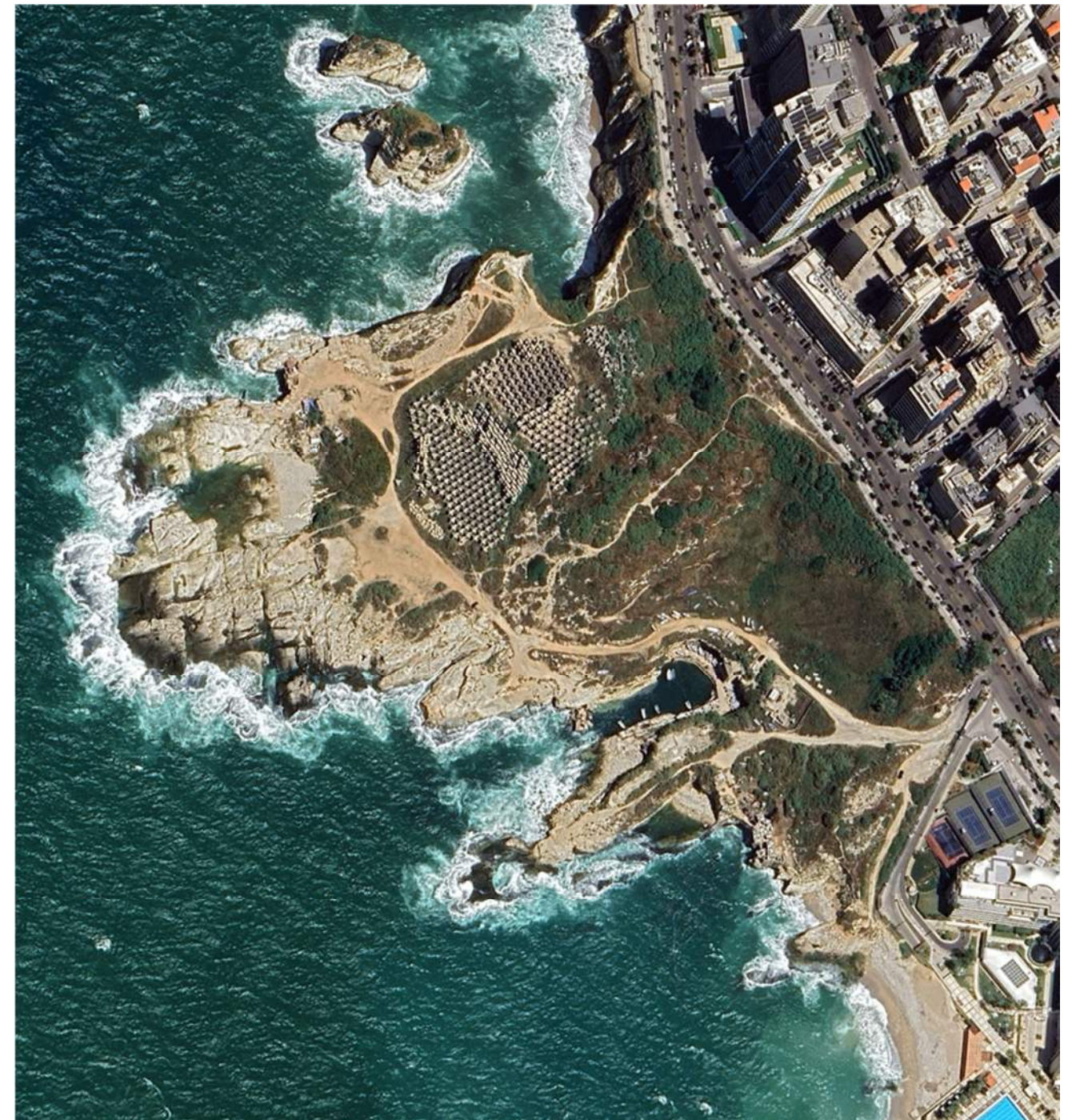
Location LEBANON – Dalieh
33°53'12" N
35°28'19" E

Consultant SEATEC sarl

Boats Storage Structure at Dalieh Fishing Port

Year 2010
Design / Surveying

- Quay walls (L=42m @-2.00m MSL) / Underwater concrete (Gravity QW)
- Rehabilitation of existing quay walls
- RC structure for boats storage (220m²)
- Marine accessories (Mooring bollards and rings)
- Fishermen room (28m²)
- Topographic survey
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Surveying

DREDGING AT OUZAÏ FISHING PORT

96

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Ouzai
33°50'23" N
35°28'57" E

Consultant SEATEC sarl

Dredging at Ouzai Fishing Port

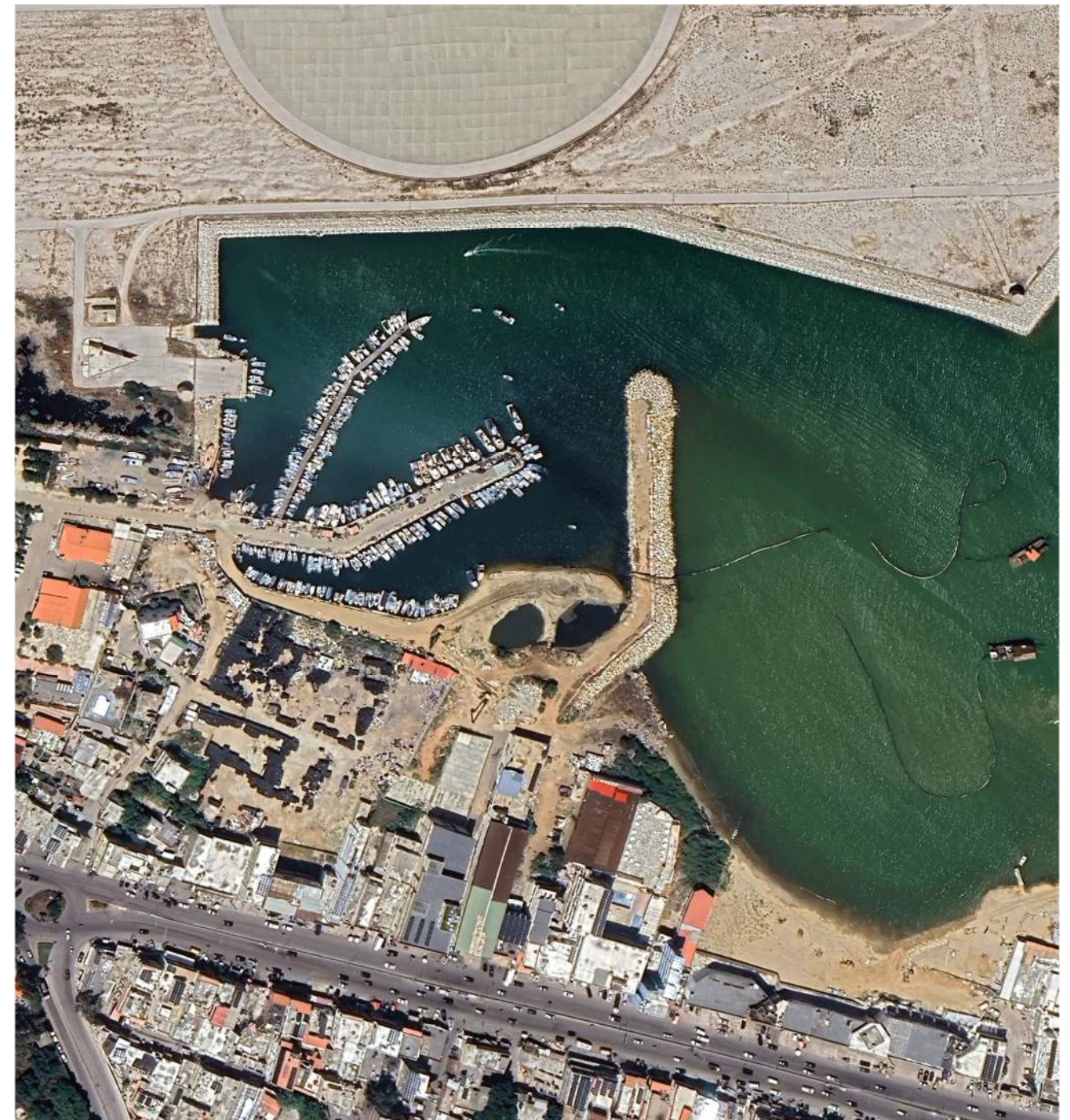
Year 2009
Design / Surveying

- Dredging works of Port basin and access channel @ -3.00m MSL
- Topographic survey
- Bathymetric survey (98,000m²)
- Tender Documents / Drawings / BoQ

Year 2010
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 5 months

Ports / Fishing Ports / Dredging / Surveying



DREDGING AT DBAYEH FISHING PORT - 1

97

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

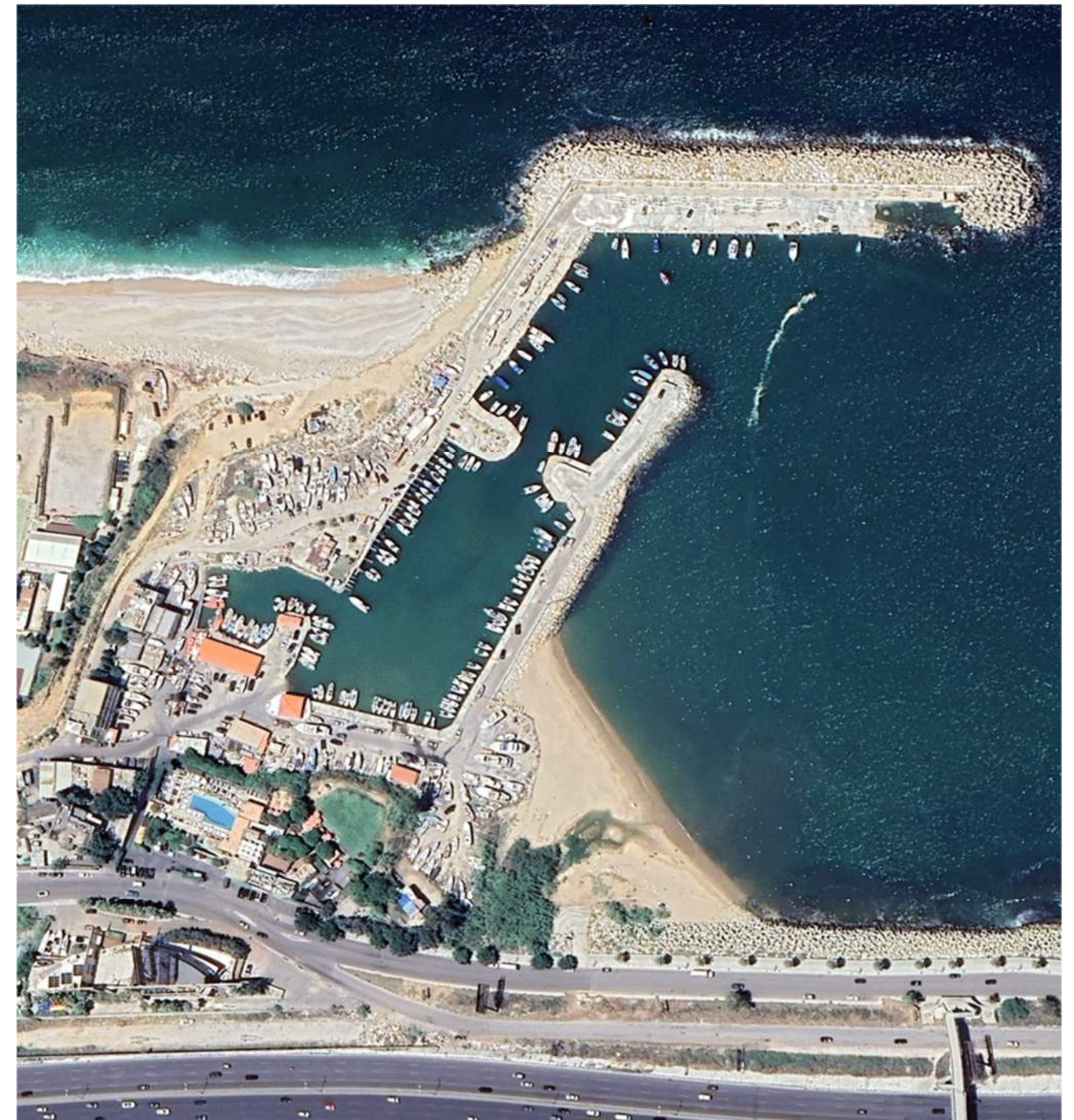
Location LEBANON – Dbayeh
33°56'38" N
35°35'22" E

Consultant SEATEC sarl

Dredging at Dbayeh Fishing Port - 1

Year 2009
Design / Surveying

- Dredging works of Port basin (4,000m²) @ -2.50m MSL
- Topographic survey
- Bathymetric survey (8,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

HERY FISHING PORT (1/2)

98

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Hery
34°18'28" N
35°42'1" E

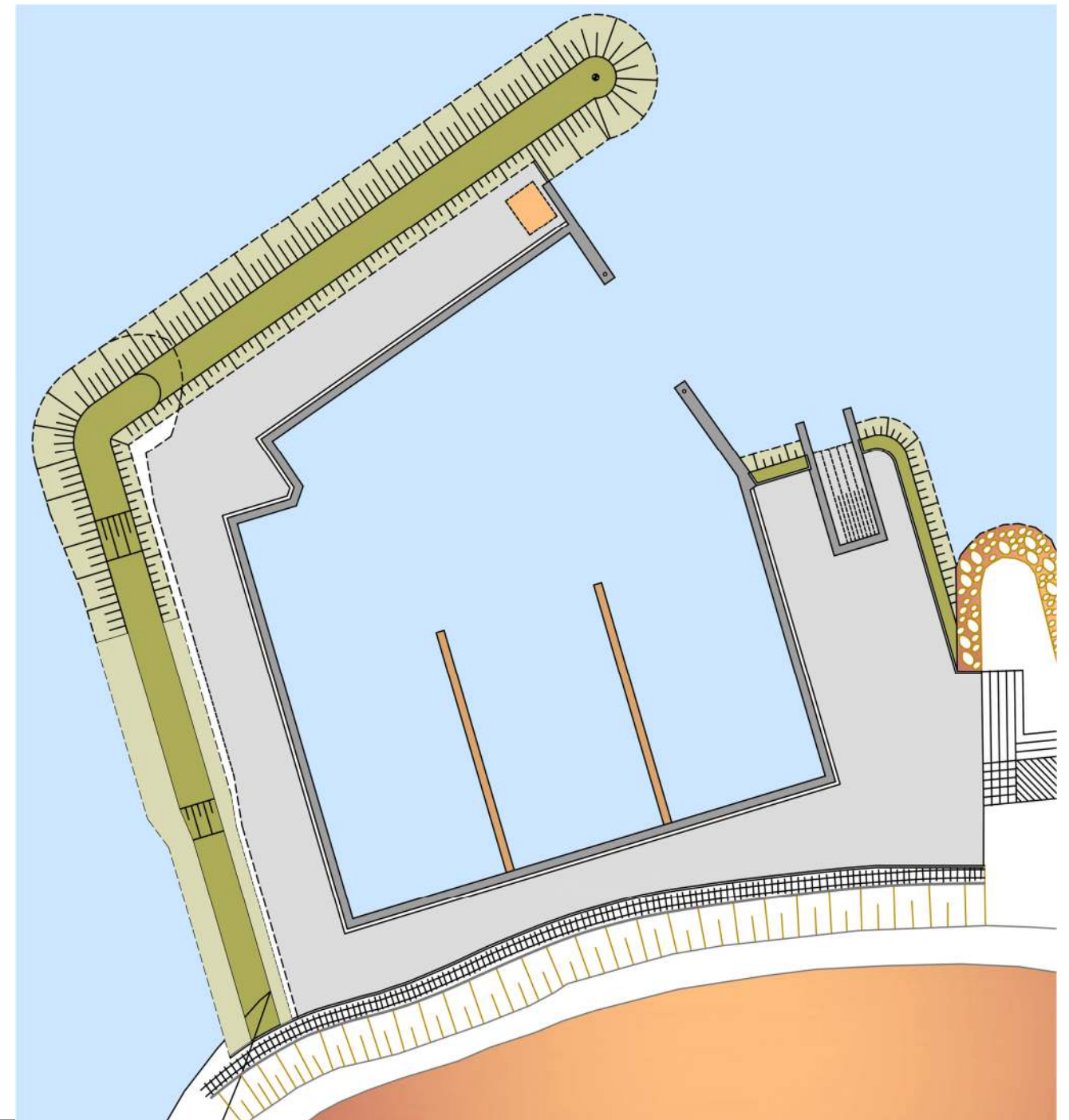
Consultant SEATEC sarl

Hery Fishing Port

Year 2009
Conceptual Design / Surveying

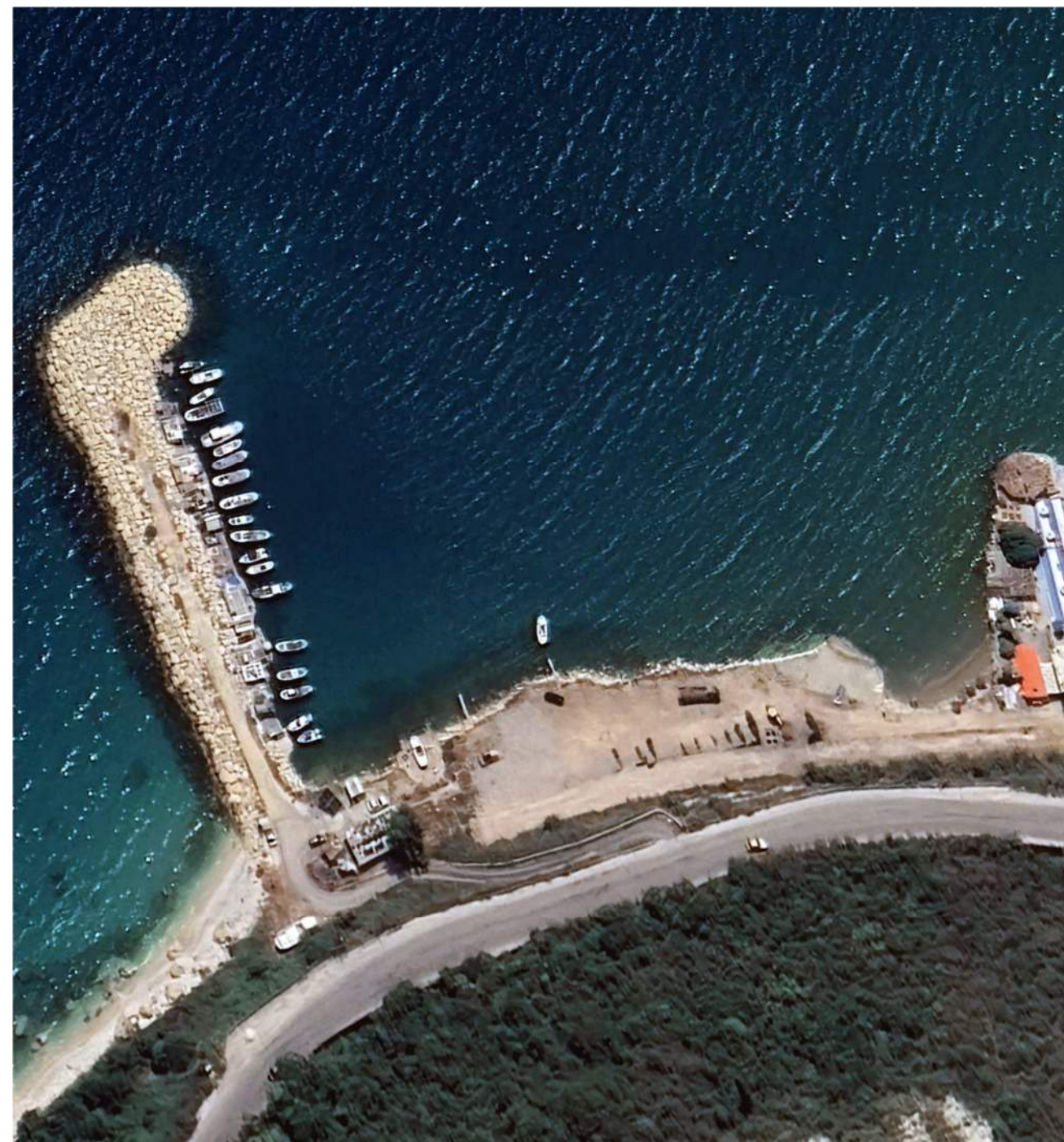
- Berthing capacity (210 boats)
- Master Plan
- Main breakwater (Rubble mound type, L=290m @max - 6.00m MSL) with rocky armour layer
- RC crown wall
- Quaywalls (L=190m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=216m @-3.00m MSL) / Precast concrete blocks (Gravity QW)
- Finger piers (L=120m @-3.00m MSL) / Precast concrete blocks
- Slipway (Boat ramp)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Hery Fishing Port

- Asphalted platforms for cars parking and boats maintenance area (9,300m²)
- Water body basin (14,300m²)
- Topographic survey
- Bathymetric survey (50,000m²)
- Drawings / BoQ



Ports / **Fishing Ports** / Lift Structures / Slipways / Dredging / Surveying

TYRE FISHING PORT (1/2)

100

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

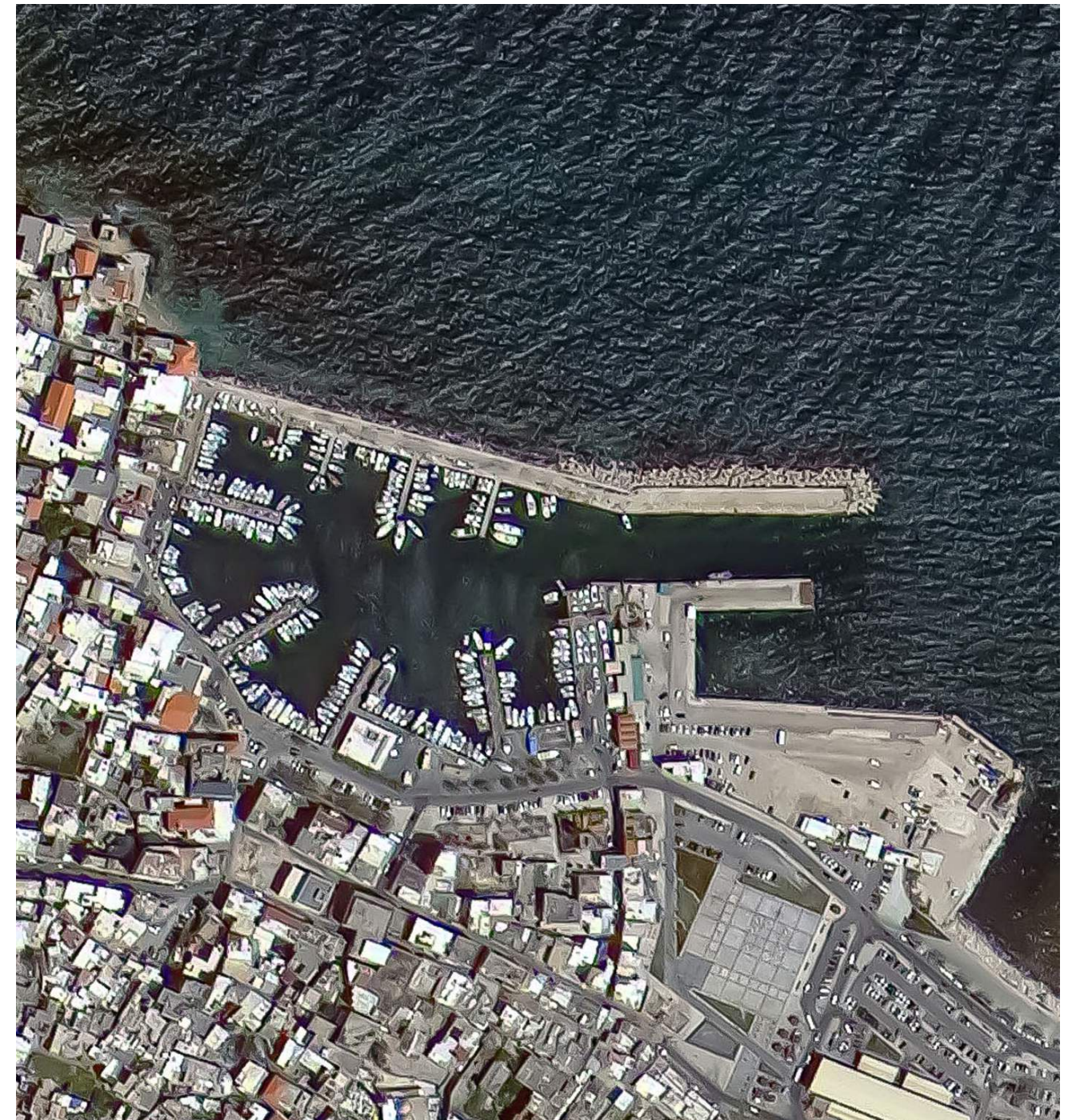
Location LEBANON – Tyre
33°16'27" N
35°11'45" E

Consultant SEATEC sarl

Tyre Fishing Port

Year 2009
Design / Surveying

- Berthing capacity (260 berths)
- Rehabilitation of the existing and old breakwater (Rubble mound type, L~100m @max -6.00m)
- Core reshaping, installation of rocky filter and 16m³ concrete Accropodes blocks Type 1 (Armor layer) for the BW
- Installation of rocky layer on the breakwater inner slope
- RC crown wall
- Quaywalls (L=206m @-2.00m MSL) / Precast concrete blocks (Gravity QW)



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

TYRE FISHING PORT (2/2)

101

Tyre Fishing Port

- Finger piers (L=50m @-2.00m MSL) / Precast concrete blocks
- Finger pier (L=30m @-3.00m MSL) / Precast concrete blocks
- 3 Water Outlets (Total L=55m)
- RC platforms (3,100m²)
- Slipway (Boat ramp)
- Rehabilitation of existing seawall (L=219m; H=2.00m)
- Marine accessories (Mooring bollards)
- Basin dredging (26,850m²) @-3.00m MSL / Offshore dumping of dredged materials using split barges
- Topographic survey
- Bathymetric survey (35,000m²)
- Tender Documents / Drawings / BoQ

Year 2010
Works Supervision

- Contractor : Khoury Contracting Company (KCC)
- Duration : 18 months



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

HANTOUCH FISHING PORT (1/2)

102

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Hantouch
33°51'1" N
35°28'59" E

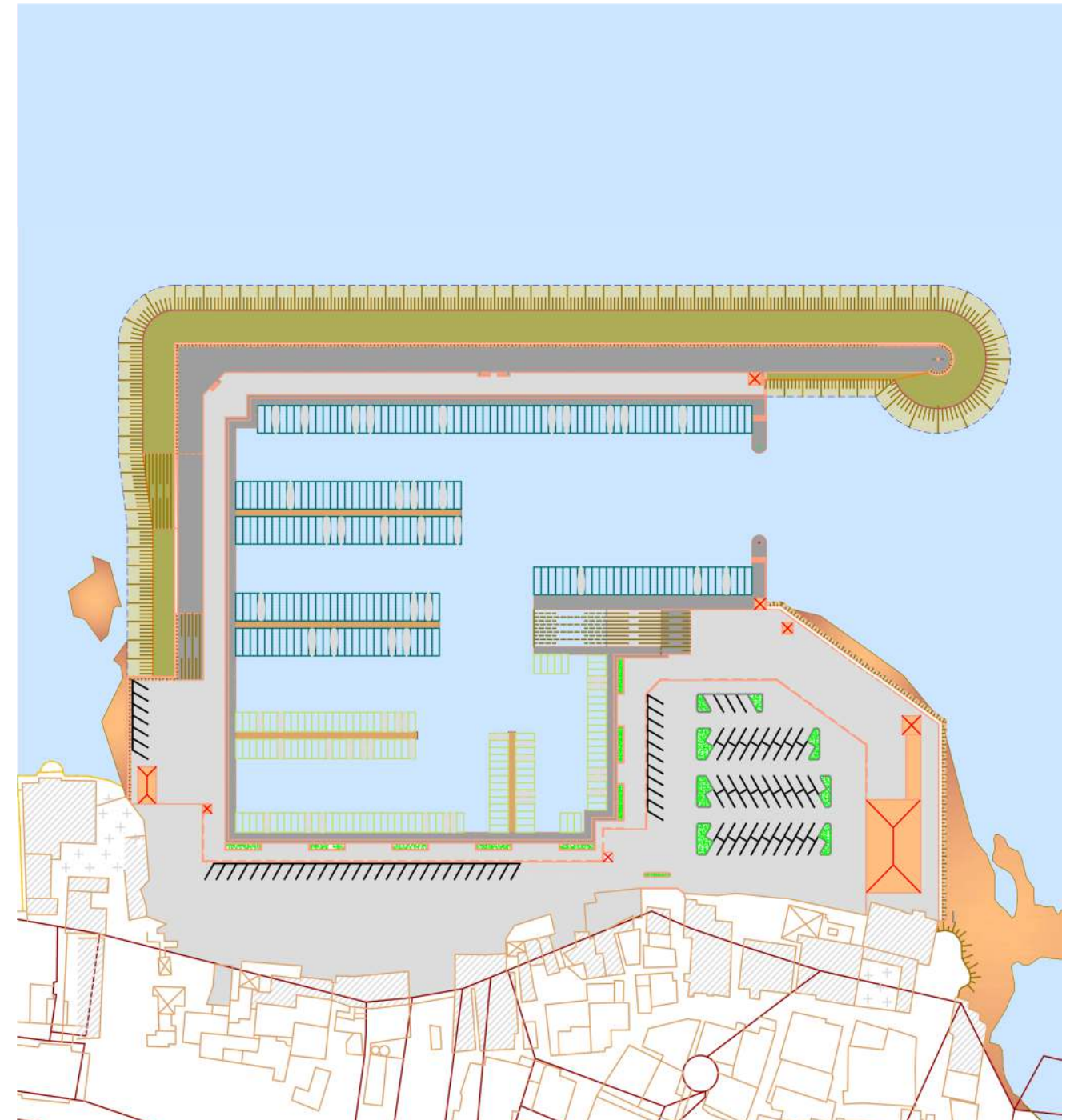
Consultant SEATEC sarl

Hantouch Fishing Port

Year 2009
Conceptual Design / Surveying

- Master Plan
- Berthing capacity (360 boats)
- Main Breakwater (Rubble mound type, L=210m @max - 6.00m MSL), with 12m³ concrete Accropodes blocks Type 1 (Armor layer)
- Quaywalls (L=220m @-2.00m) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=116m @-3.00m) / Precast concrete blocks (Gravity QW)
- Quaywalls (L=142m @-4.00m) / Precast concrete blocks (Gravity QW)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



Hantouch Fishing Port

- Finger Piers (L=77m @-2.00m) / Precast concrete elements with wooden top
- Finger Piers (L=56m @-3.00m) / Precast concrete elements with wooden top
- Finger Piers (L=62m @-4.00m) / Precast concrete elements with wooden top
- Marine accessories (Mooring bollards)
- Slipway (Boats ramp)
- Asphalted platforms for car parking and access roads (6,750m²)
- Concrete platforms for boats maintenance (7,750m²)
- Fishermen rooms (90m²)
- Fish market (375m²)
- Basin (13,000m²)
- Reclaimed areas (14,500m²)
- Topographic survey (10,500m²)
- Bathymetric survey (80,000m²)
- Drawings / BoQ

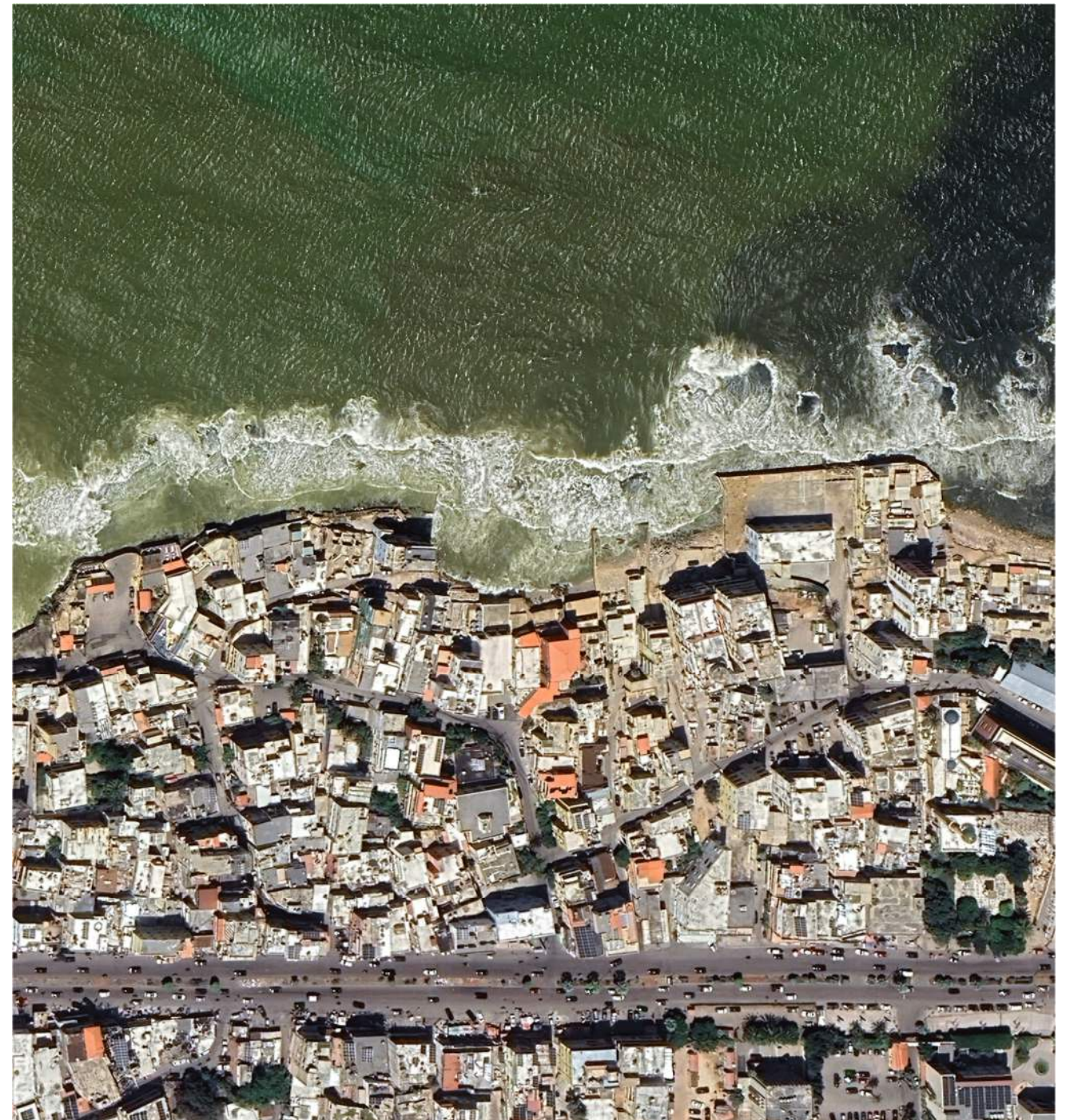
Year 2010

Design

Temporary protection and dredging works

- Temporary protection of the existing natural basin using 12m³ concrete Accropodes blocks Type 1
- Basin dredging (2,500m²) @-2.00m MSL
- Tender documents / Drawings / BoQ

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



DREDGING AT TYRE FISHING PORT

104

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

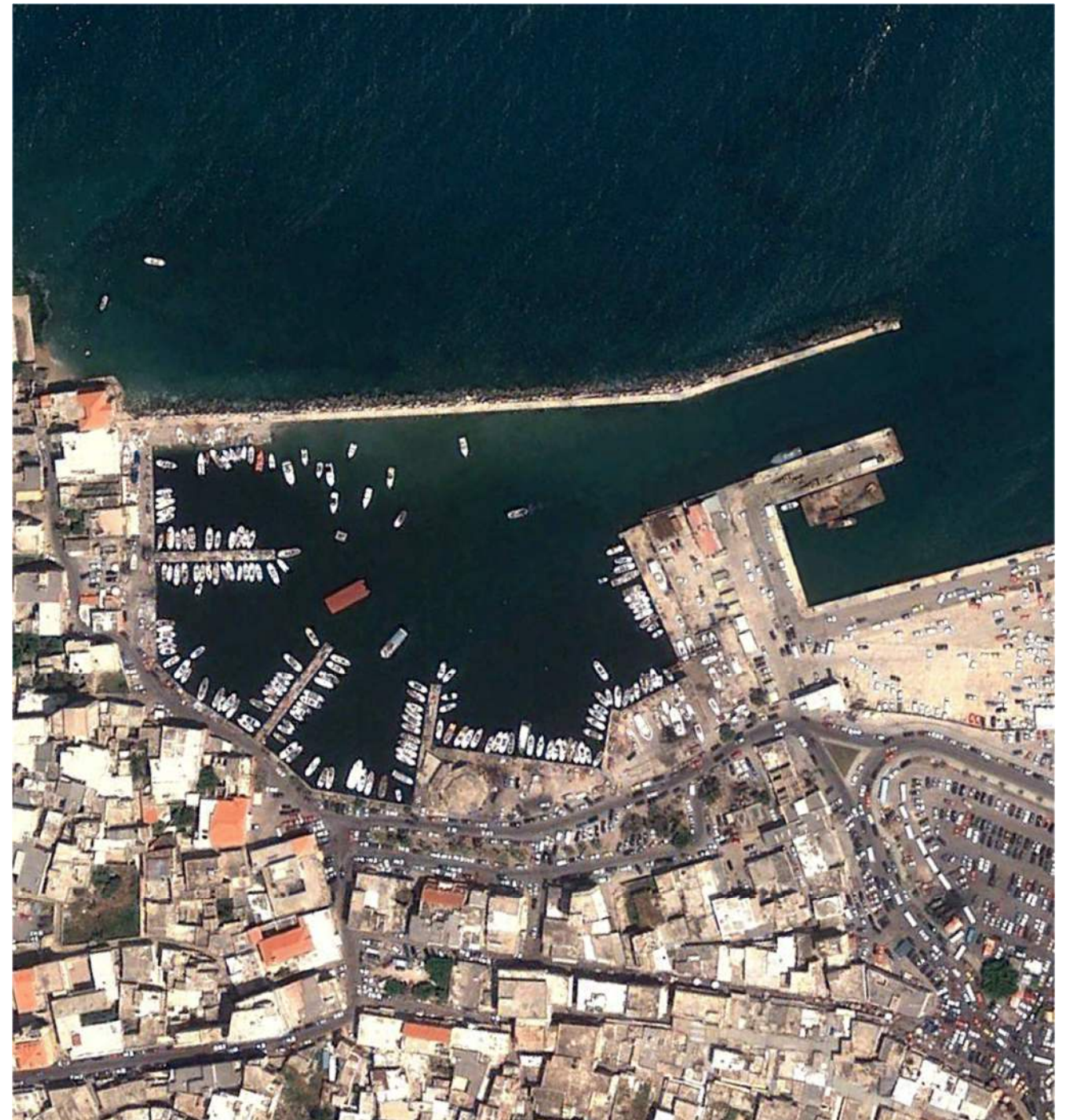
Location LEBANON – Tyre
33°16'27" N
35°11'45" E

Consultant SEATEC sarl

Dredging at Tyre Fishing Port

Year 2009
Design / Surveying

- Dredging works of Port basin @-3.50m MSL
- Topographic survey
- Bathymetric survey (30,000m²)
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DREDGING AND JIB CRANE AT NAQOURA FISHING PORT

105

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Naqoura
33°7'35" N
35°8'40" E

Consultant SEATEC sarl

Dredging and jib crane at Naqoura Fishing Port

Year 2009
Design / Surveying

- Dredging of port basin (2,000m²) @ -2.00m MSL
- Design and installation of a 5T lifting capacity jib crane for boats handling
- Topographic survey
- Bathymetric survey (2,000m²)
- Specifications / Drawings / BoQ

Year 2009
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 3 months

Ports / Fishing Ports / Lift Structures / Hoists / Dredging / Surveying



BERBARA FISHING PORT – PHASE 2 (1/2)

106

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Berbara
34°11'33" N
35°37'58" E

Consultant SEATEC sarl

Berbara Fishing Port – Phase 2

Year 2008
Design / Surveying

- Master Plan
- Berthing capacity (25 boats)
- Rehabilitation of the existing vertical concrete breakwater (L=55m) with a curved seaward face
- Extension of the above-mentioned breakwater by 6.50m (Underwater concrete vertical BW)
- Additional protection at port entrance with 16m³ concrete Accropodes blocks Type 1
- Quaywalls (L=48.00m @ -1.50m MSL) / Underwater concrete (Gravity QW)

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



BERBARA FISHING PORT – PHASE 2 (2/2)

107

Berbera Fishing Port – Phase 2

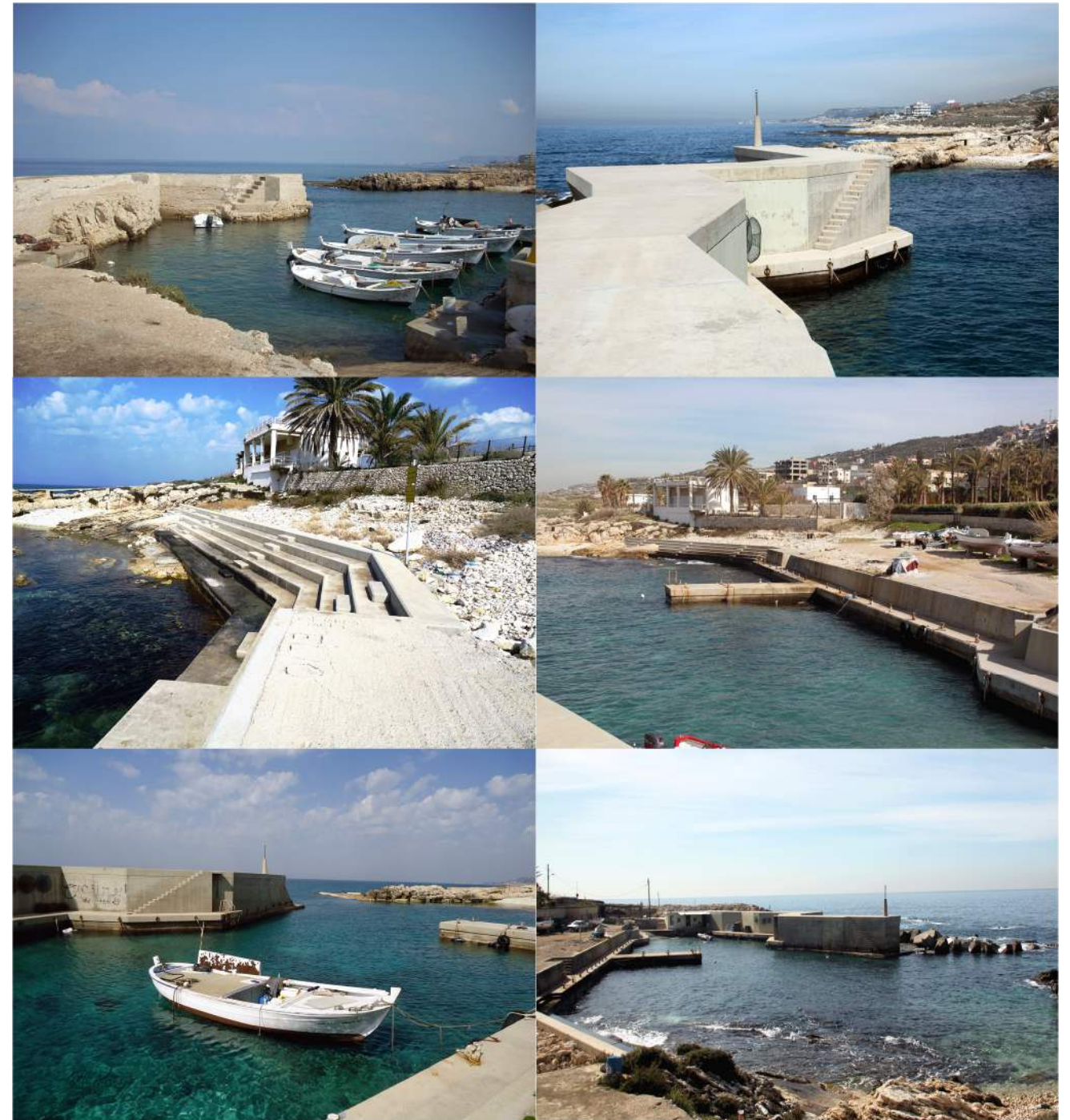
- Finger Pier (L=10.60m @-1.50m MSL) / Underwater concrete blocks (Gravity Pier)
- Concrete bleacher adjacent to sea water (L=34m)
- Marine accessories (Mooring bollards and rings)
- RC retaining walls
- RC concrete slabs
- Land reclamation
- Slipway (Boat ramp)
- Basin dredging (160m²)
- Fishermen rooms (45m²)
- Topographic survey
- Bathymetric survey (2,400m²)
- Tender Documents / Drawings / BoQ

Year 2010

Works Supervision

- Contractor : MARCONTRACTING
- Duration : 6 months

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



CHEKKA FISHING PORT – PHASE 2 (1/2)

108

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Chekka
34°19'38" N
35°43'21" E

Consultant SEATEC sarl

Chekka Fishing Port – Phase 2

Year 2009
Design / Surveying

- Berthing capacity (120 baots)
- Quaywalls (L=142m @-2.00m MSL) / Underwater concrete blocks (Gravity QW)
- Quaywalls (L=152m @-2.00m MSL) / Precast concrete blocks (Gravity QW)
- Infrastructure (Electrical and water supply fittings) and marine accessories (Mooring bollards)
- RC platforms (1620m²)
- Slipway (Boat ramp)
- Rehabilitation of existing main and secondary concrete seawalls and an inner retaining wall

Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying



CHEKKA FISHING PORT – PHASE 2 (2/2)

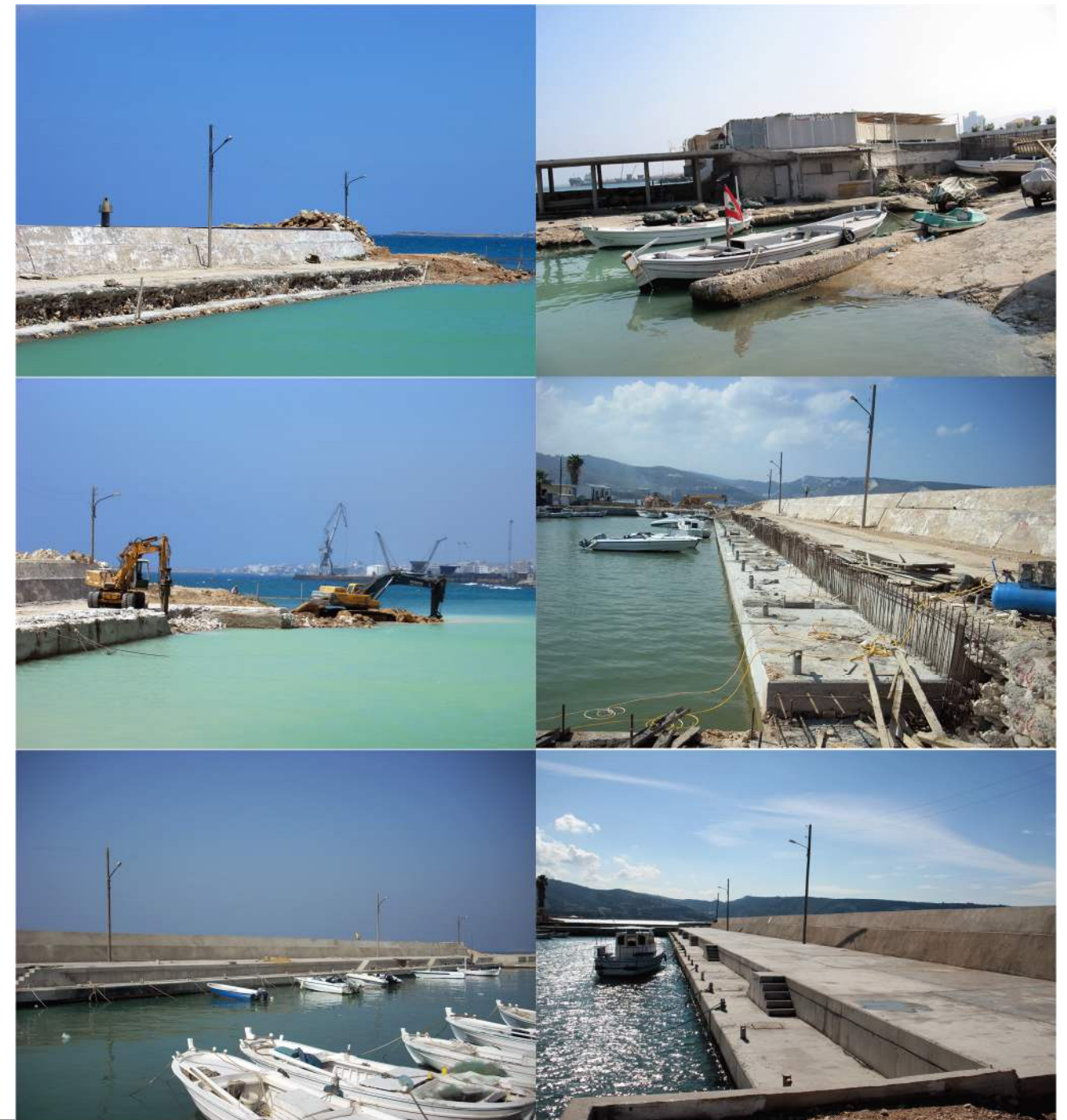
109

Chekka Fishing Port – Phase 2

- New retaining wall (L=34.00m; H=1.00m)
- Dredging (1,000m²) along quaywalls and basin
- Topographic survey
- Bathymetric survey (3,000m²)
- Tender Documents / Drawings / BoQ

Year 2010 - 2011
Works Supervision

- Contractor : SOTEG sarl
- Duration : 8 months



Ports / Fishing Ports / Lift Structures / Slipways / Dredging / Surveying

ENTRANCE PROTECTION AT DAR MREISSE FISHING PORT

110

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dar el Mreisse
33°54'6" N
35°29'12" E

Consultant SEATEC sarl

Entrance Protection at Dar el Mreisse Fishing Port

Year 2008
Design

- Installation of 16m³ precast concrete Accropodes blocks type I at the Port entrance to reduce inner basin agitation
- Specifications / Drawings / BoQ

Year 2009
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 15 days

Ports / Fishing Ports



JIB CRANE REHABILITATION AT DALIEH FISHING PORT

111

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dalieh
33°53'13" N
35°28'19" E

Consultant SEATEC sarl

Jib Crane Rehabilitation at Dalieh Fishing Port

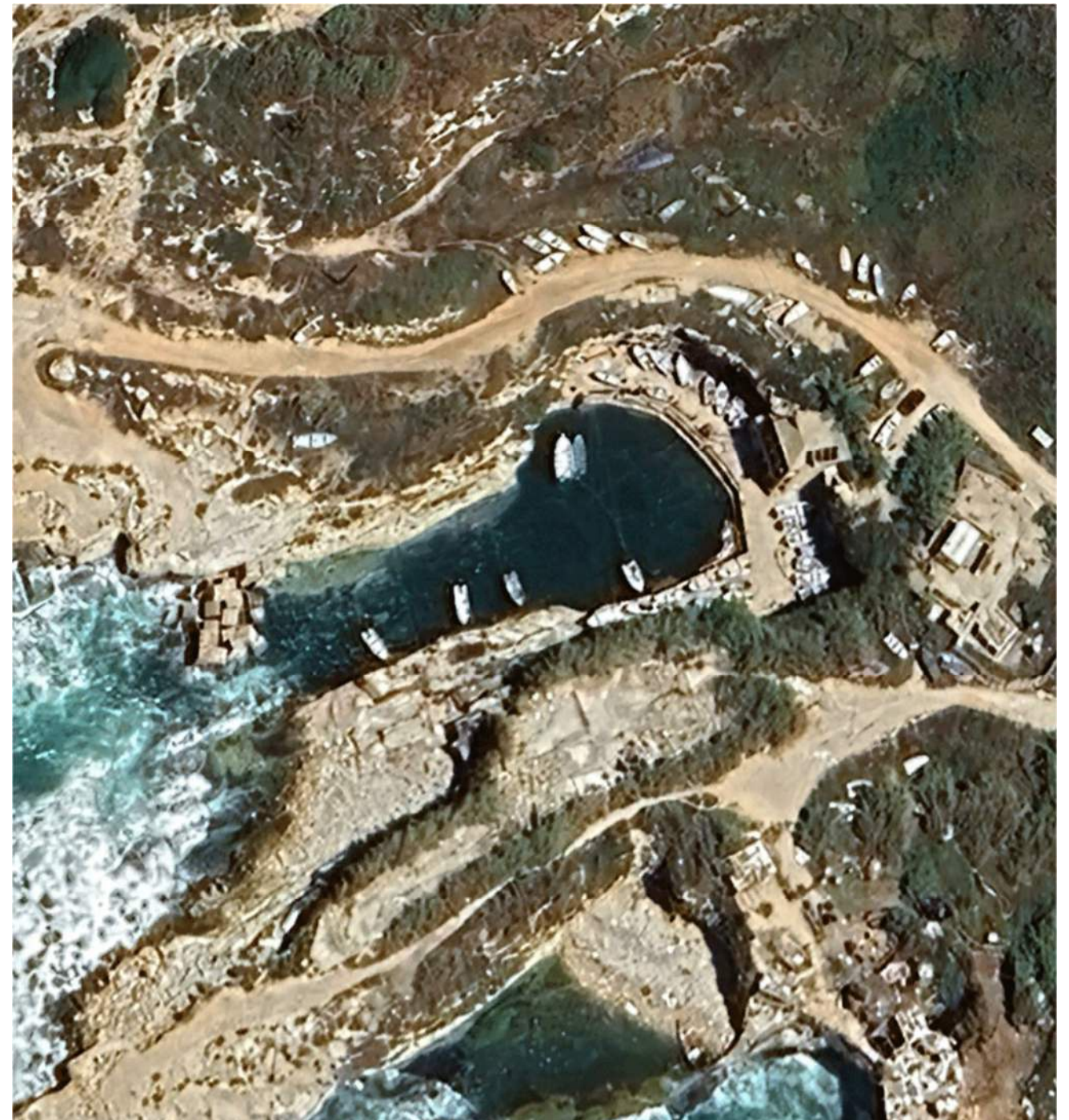
Year 2008
Design

- Installation of 16m3 precast concrete Accropodes blocks type I at the Port entrance to reduce inner basin agitation
- Specifications / Drawings / BoQ

Year 2009
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 15 days

Ports / Fishing Ports / Lift Structures / Hoist



DREDGING AT KALAMOUN FISHING PORT

112

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

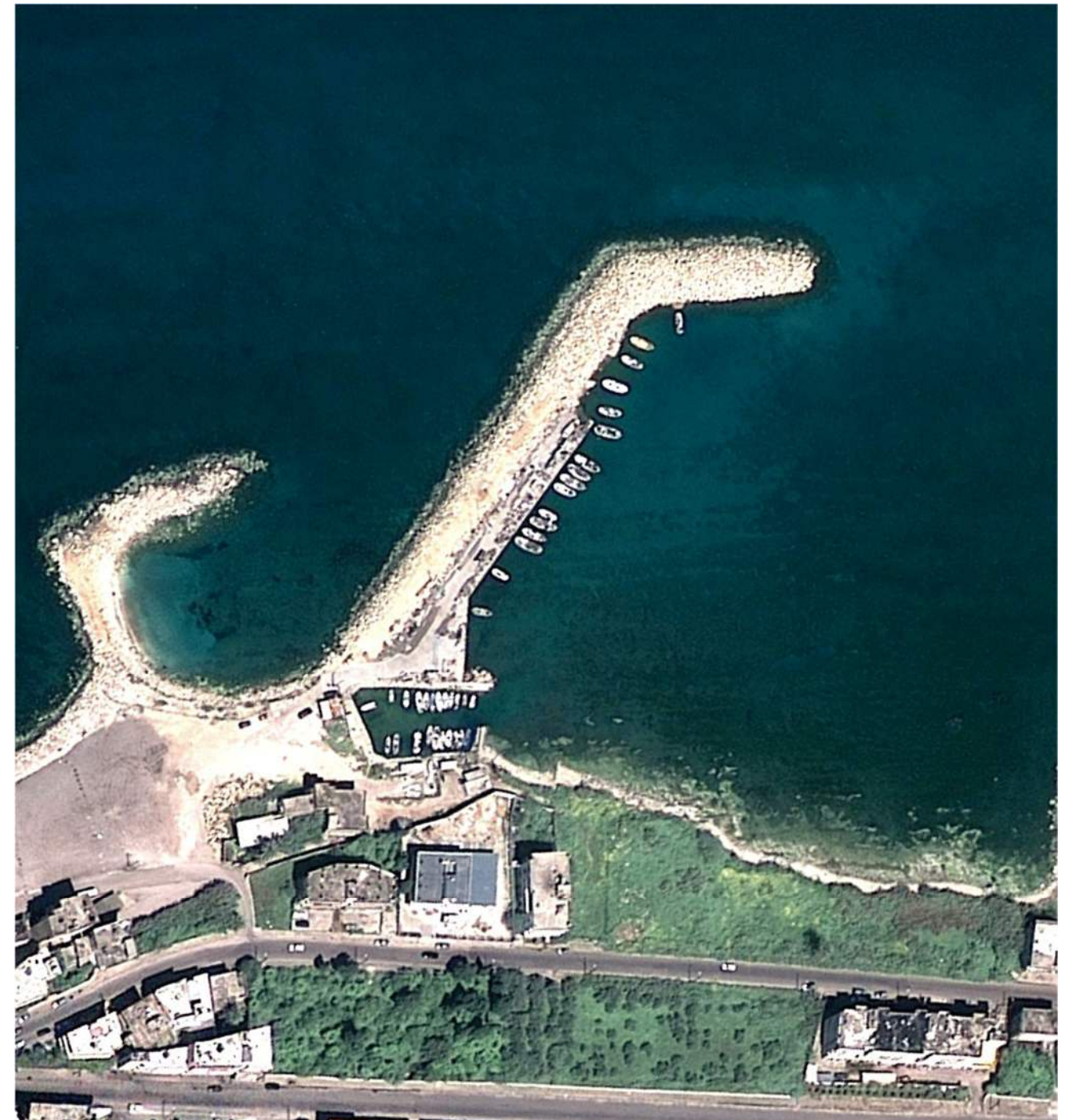
Location LEBANON – Kalamoun
34°23'25" N
35°47'15" E

Consultant SEATEC sarl

Dredging at Kalamoun Fishing Port

Year 2008
Design / Surveying

- Dredging works of Port entrance over (900m²) @-1.50m MSL
- Topographic survey
- Bathymetric survey (1,000m²)
- Drawings / BoQ



Ports / Fishing Ports / Dredging / Surveying

DREDGING AT BATROUN FISHING PORT

113

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Batroun
34°15'26" N
35°39'25" E

Consultant SEATEC sarl

Dredging at Batroun Fishing Port

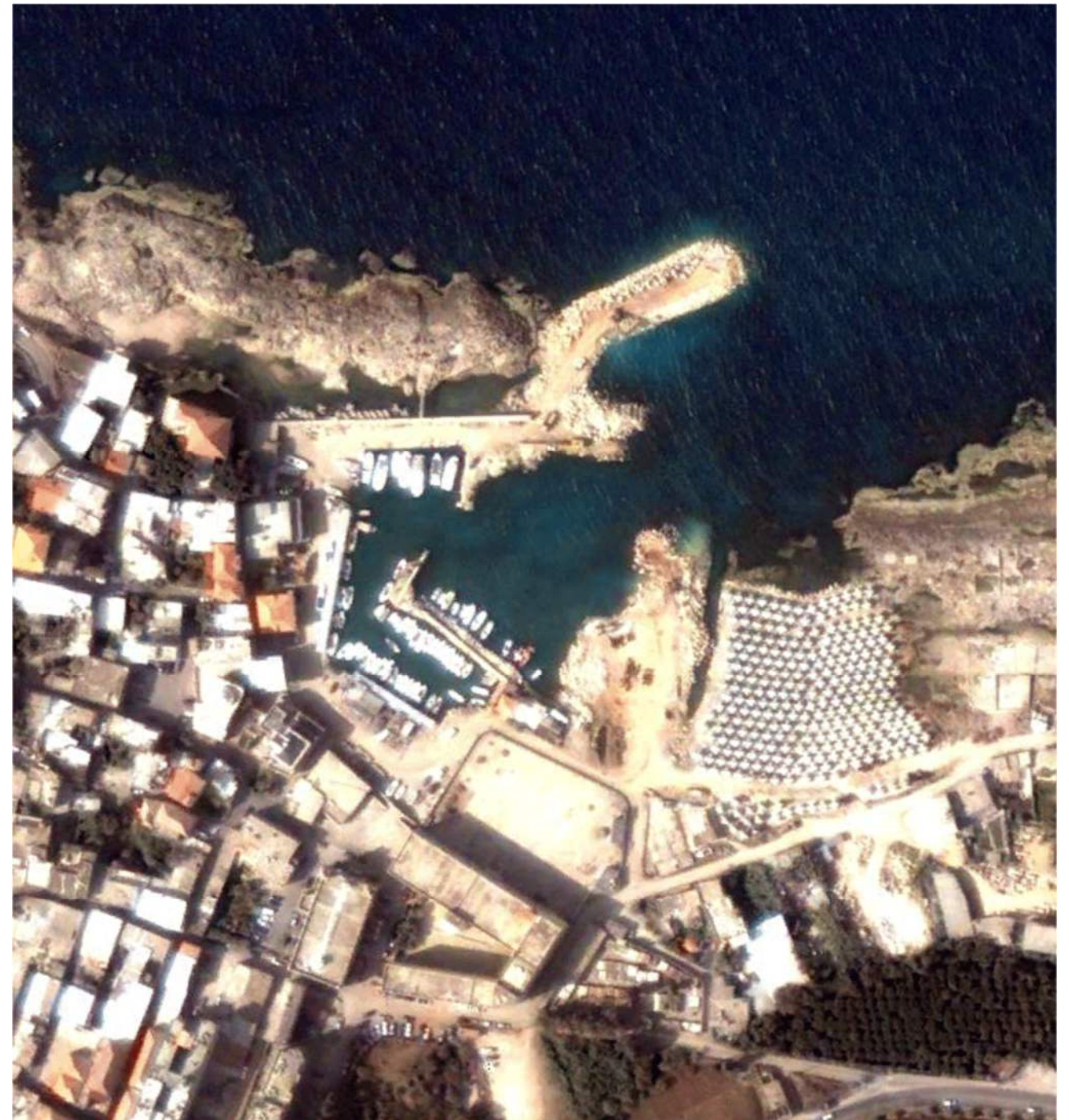
Year 2007
Design / Surveying

- Dredging works of Port entrance over (1,000m²) @-4.00m MSL
- Topographic survey
- Bathymetric survey (1,000m²)
- Tender Documents / Drawings / BoQ

Year 2008
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



DREDGING AT DORA FISHING PORT - 1

114

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Dora
33°53'55" N
35°33'6" E

Consultant SEATEC sarl

Dredging at Dora Fishing Port - 1

Year 2007
Design / Surveying

- Dredging works of Port entrance and areas adjacent to existing quaywalls @ -2.00m MSL
- Topographic survey
- Bathymetric survey (6,000m²)
- Tender Documents / Drawings / BoQ

Year 2008
Works Supervision

- Contractor : Tannous Geagea Est. for Contracting and Public Works
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



BERBARA FISHING PORT – PHASE 1

115

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Berbara
34°11'33" N
35°37'58" E

Consultant SEATEC sarl

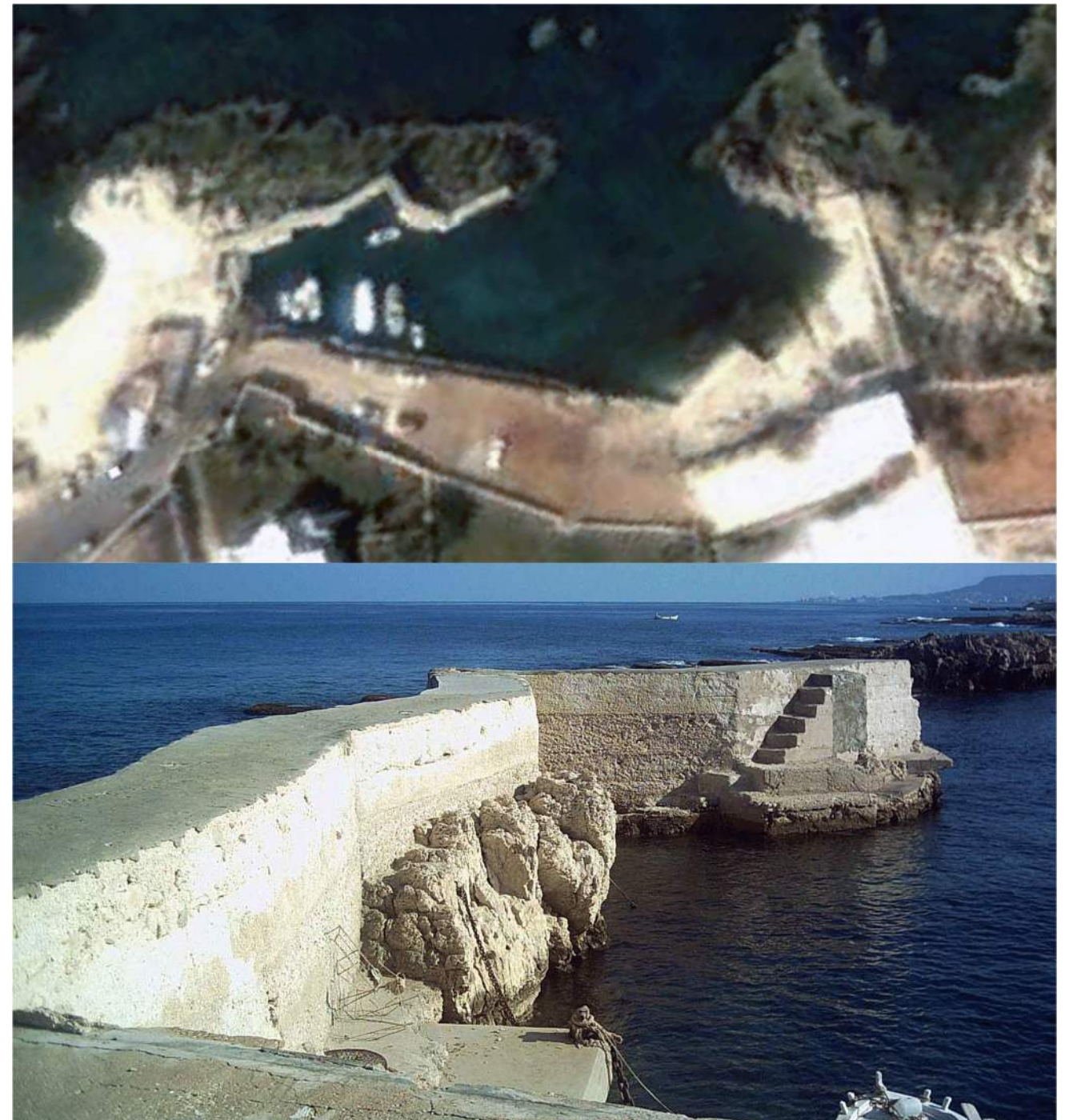
Berbara Fishing Port – Phase 1

Year 2006
Conceptual design

Year 2007
Design / Surveying

- Quaywall (L=27m @-2.00m MSL) / Underwater concrete (Gravity QW)
- Finger Pier (L=11m @-2.00m MSL) / Underwater concrete blocks (Gravity Pier)
- RC retaining walls (L=27m; H=1.70m)
- Land reclamation (5,800m²)
- Slipway and basin dredging @-1.50m MSL (250m²)
- Fishermen rooms (20m²)
- Topographic and bathymetric survey (500m²)
- Tender Documents / Drawings / BoQ

Ports / Fishing Ports / Lift Structures / Slipway / Surveying



DREDGING AT BERBARA FISHING PORT

116

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Berbara
34°11'33" N
35°37'58" E

Consultant SEATEC sarl

Dredging at Berbara Fishing Port

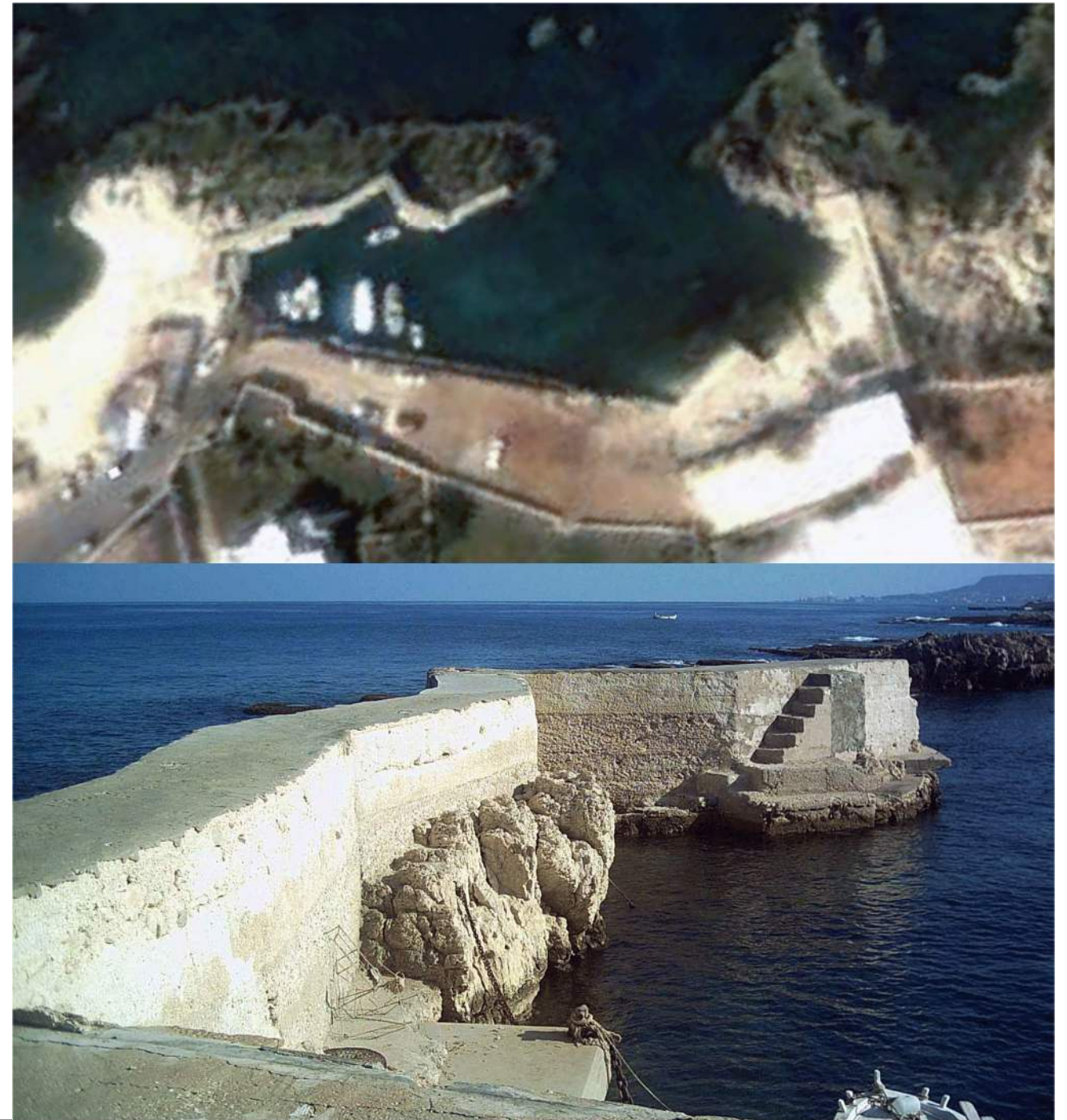
Year 2007
Design / Surveying

- Dredging works of Port basin over (700m2) @-2.00m MSL
- Topographic survey
- Bathymetric survey (2,400m2)
- Drawings / BoQ

Year 2007
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



AMCHIT FISHING PORT – PHASE 1 (1/2)

117

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Amchit
34°9'6" N
35°37'42" E

Consultant SEATEC sarl

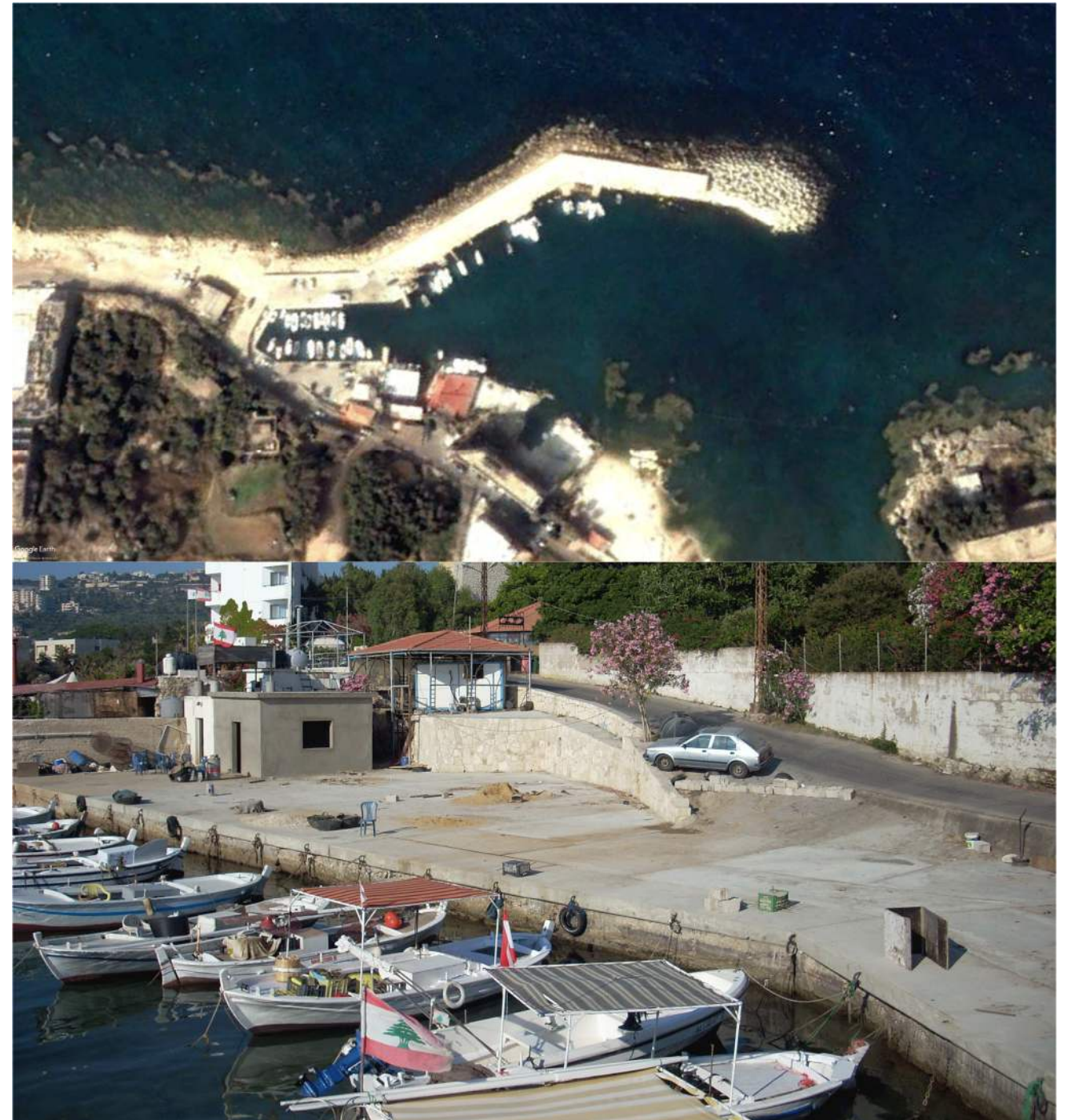
Amchit Fishing Port – Phase 1

Year 2006
Conceptual design

Year 2007
Design / Surveying

- RC capping beams for quaywalls (L=94m; H=0.50m)
- Quaywall (L=8.00m @ -2.00m MSL) / Underwater concrete blocks (Gravity QW)
- Top RC slabs on grade (520m²)
- Marine accessories (Mooring rings)
- Retaining wall (L=8.00m; Max H=3.00m) / Rocky - Gravity type
- Fishermen rooms (32m²)

Ports / Fishing Ports / Surveying



AMCHIT FISHING PORT – PHASE 1 (1/2)

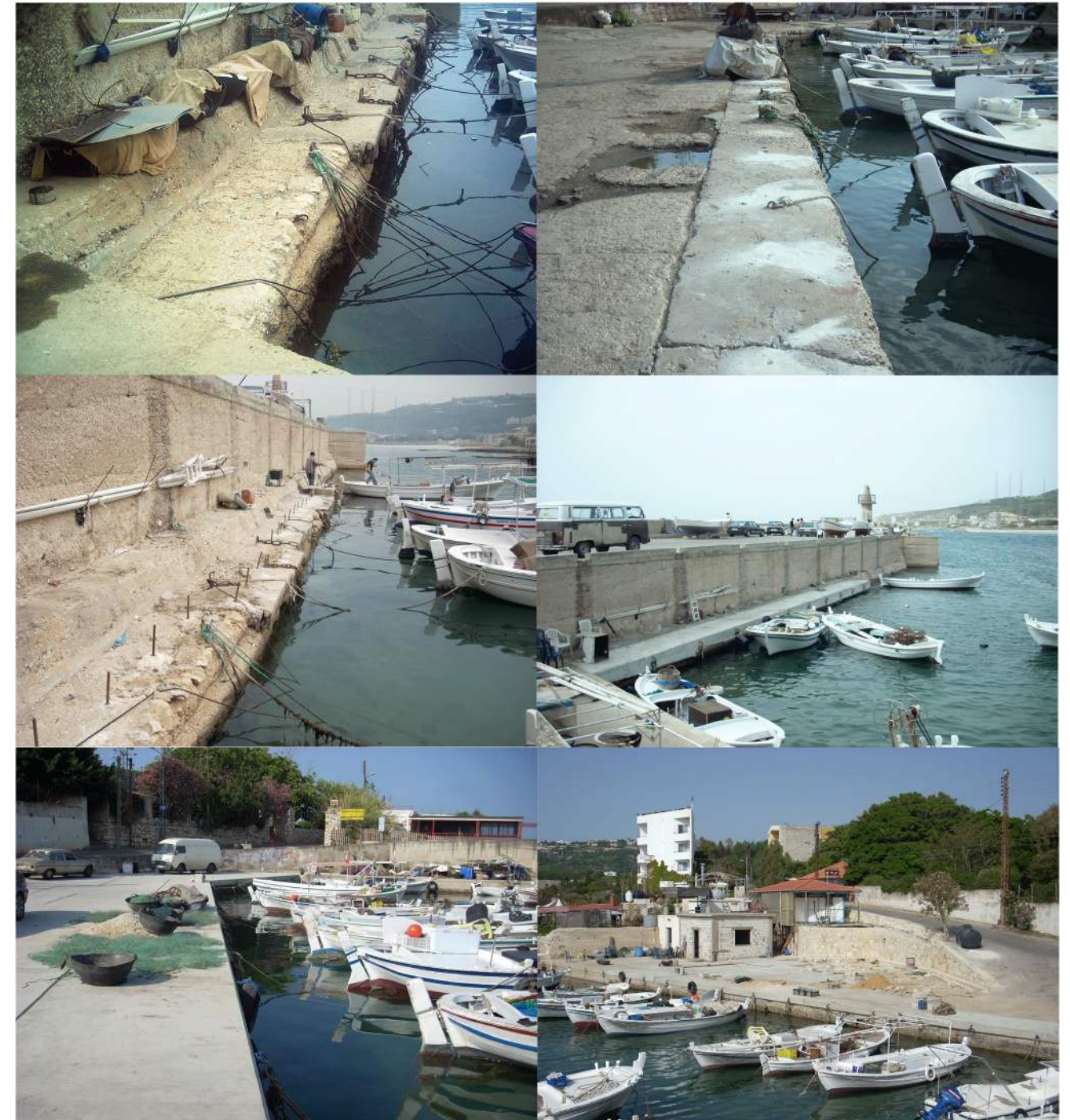
118

Amchit Fishing Port – Phase 1

- Topographic survey
- Bathymetric survey (800m²)
- Tender Documents / Drawings / BoQ

Year 2008
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 4 months



Ports / Fishing Ports / Surveying

CHEKKA FISHING PORT – PHASE 1 (1/2)

119

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Chekka
34°19'38" N
35°43'21" E

Consultant SEATEC sarl

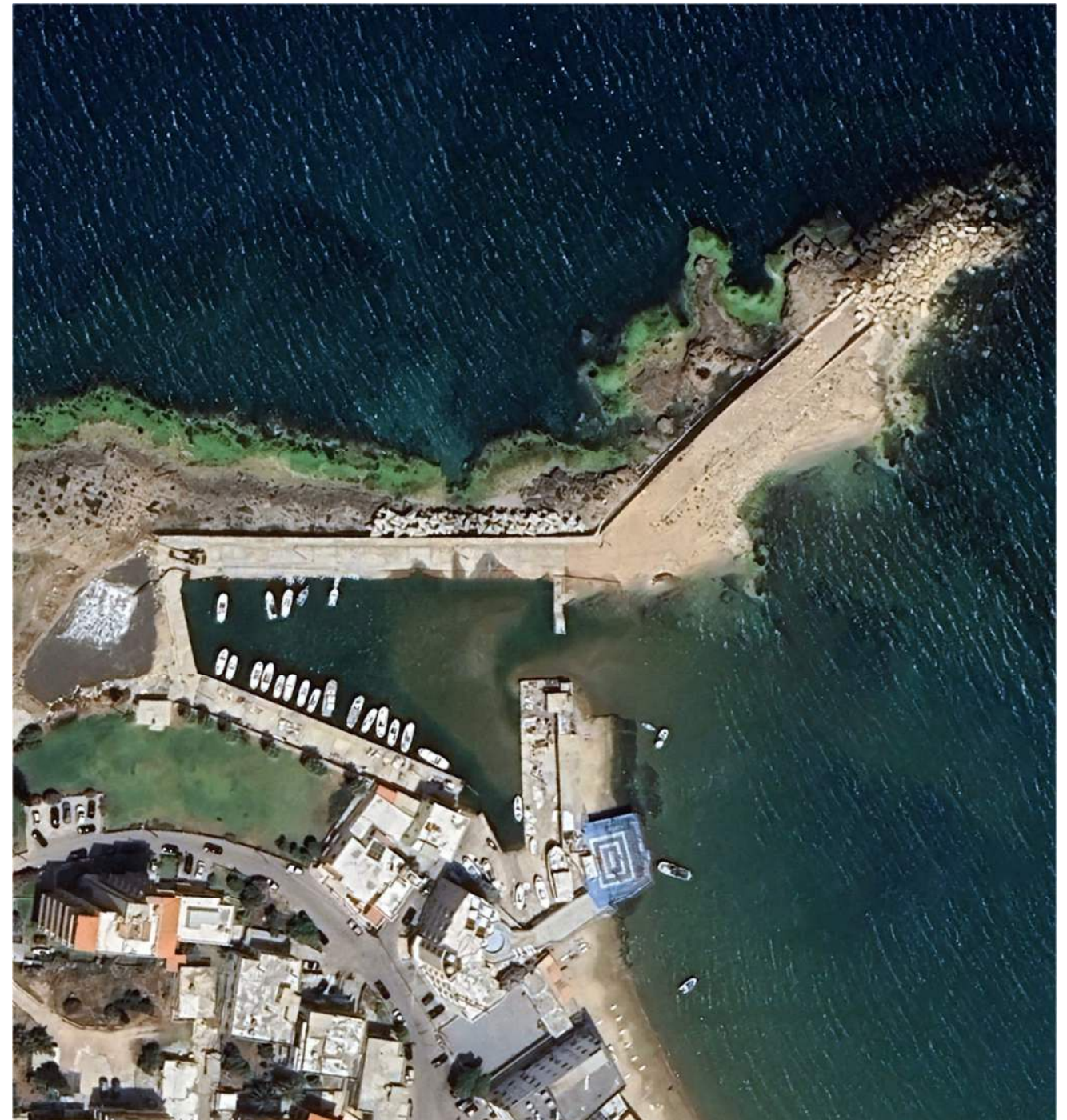
Chekka Fishing Port – Phase 1

Year 2006
Conceptual design

Year 2007
Design / Surveying

- Quaywall (L=74m @ -2.00m MSL) / Precast concrete blocks (Gravity QW)
- Land reclamation (420m²) / top RC slabs on grade
- Infrastructure (Electrical and water supply fittings)
- Marine accessories (Mooring bollards)
- Basin dredging up to -2.00m MSL (3,500m²)
- Topographic survey
- Bathymetric survey (40,000m²)
- Tender Documents / Drawings / BoQ

Ports / Fishing Ports / Dredging / Surveying



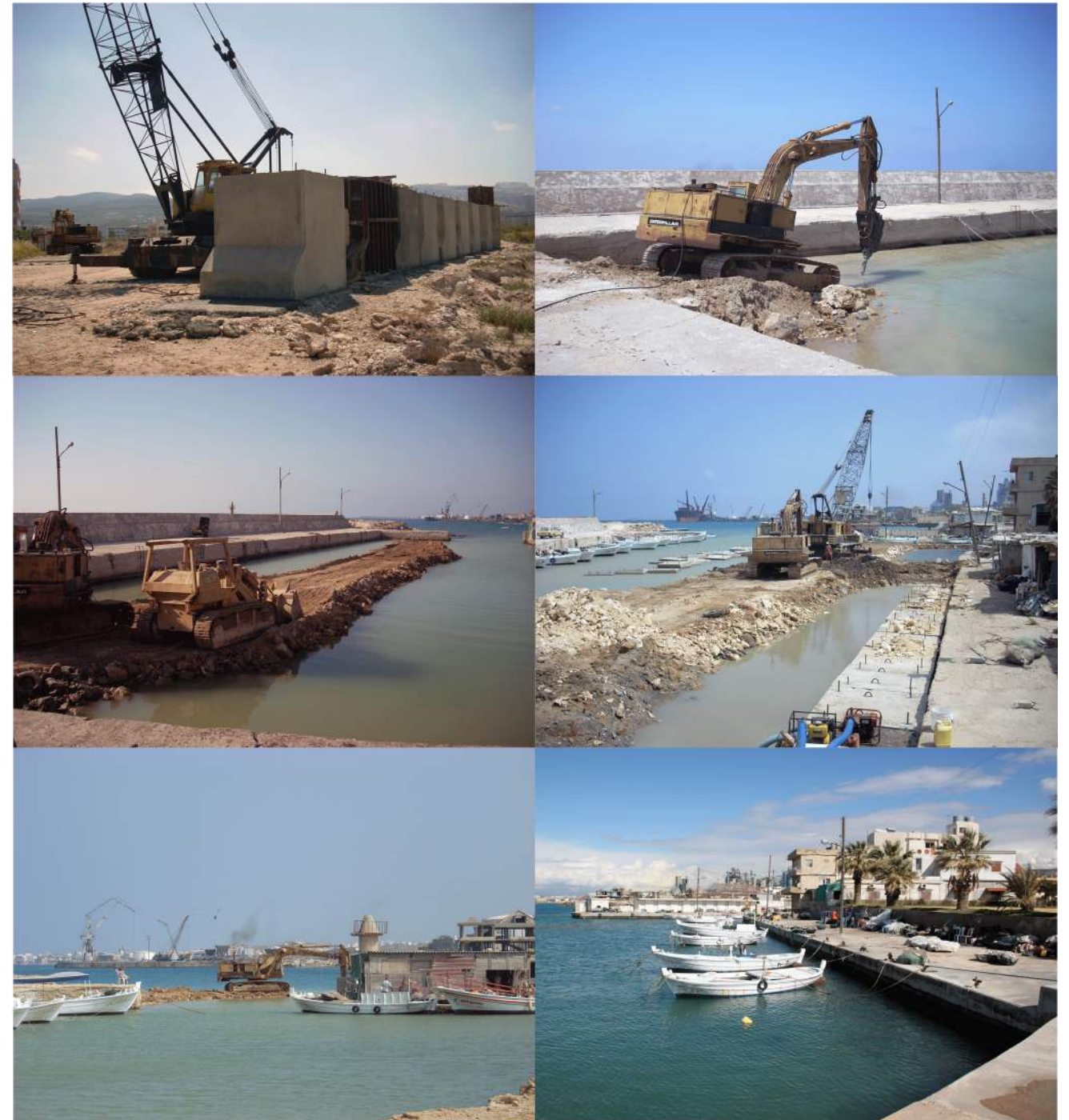
CHEKKA FISHING PORT – PHASE 1 (1/2)

120

Chekka Fishing Port – Phase 1

Year 2008
Works Supervision

- Contractor : Khoury Contracting Company sarl (KCC)
- Duration : 8 months



Ports / Fishing Ports / Surveying

DREDGING AT JOUNIEH FISHING PORT

121

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Jounieh
33°59'02" N
35°37'39" E

Consultant SEATEC sarl

Dredging at Jounieh Fishing Port

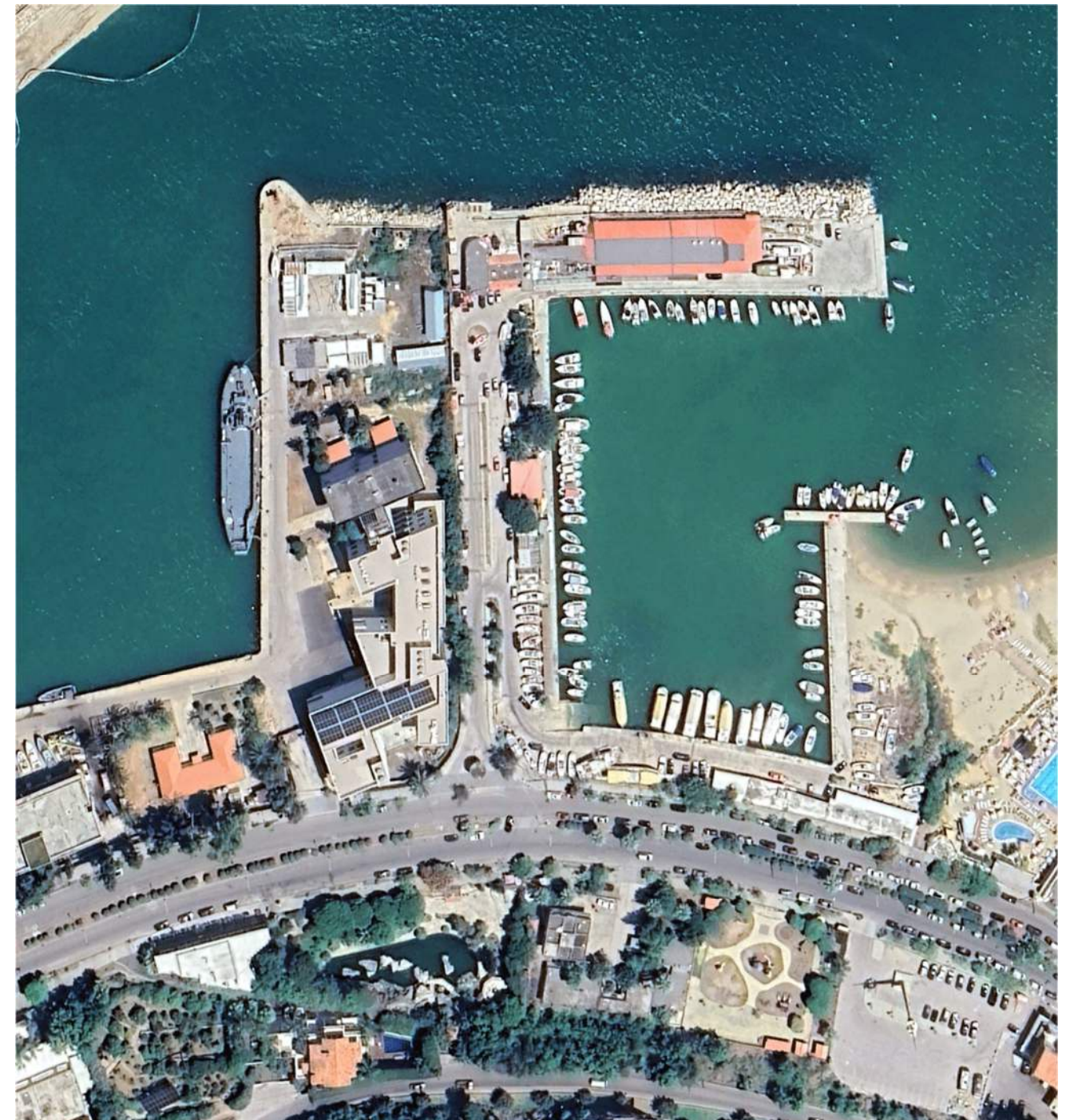
Year 2008
Design / Surveying

- Dredging works of Port basin over (4,200m²) @ -4.50m MSL
- Topographic survey
- Bathymetric survey (5,000m²)
- Drawings / BoQ

Year 2008
Works Supervision

- Contractor : MARCONTRACTING
- Duration : 1 month

Ports / Fishing Ports / Dredging / Surveying



JUMEIRAH FISHING PORT

122

Client ARAB EXPRESS Ltd
Location United Arab Emirates (UAE) - Dubai
25°12'41" N
55°14'41" E
Consultant SEATEC sarl

Jumeirah Fishing Port

Year 2004 - 2005
Conceptual design

- Rubble Mound Main Breakwater (L=1,050m)
Variant 1: Rubble mound type with 2.5m³ Accropodes blocks Type I
Variant 2: Vertical Composite type (Caisson)
- Feasibility study
- Scaled model
- Drawings / BoQ



Ports / Fishing Ports

UMM SUQEIM 2 FISHING PORT

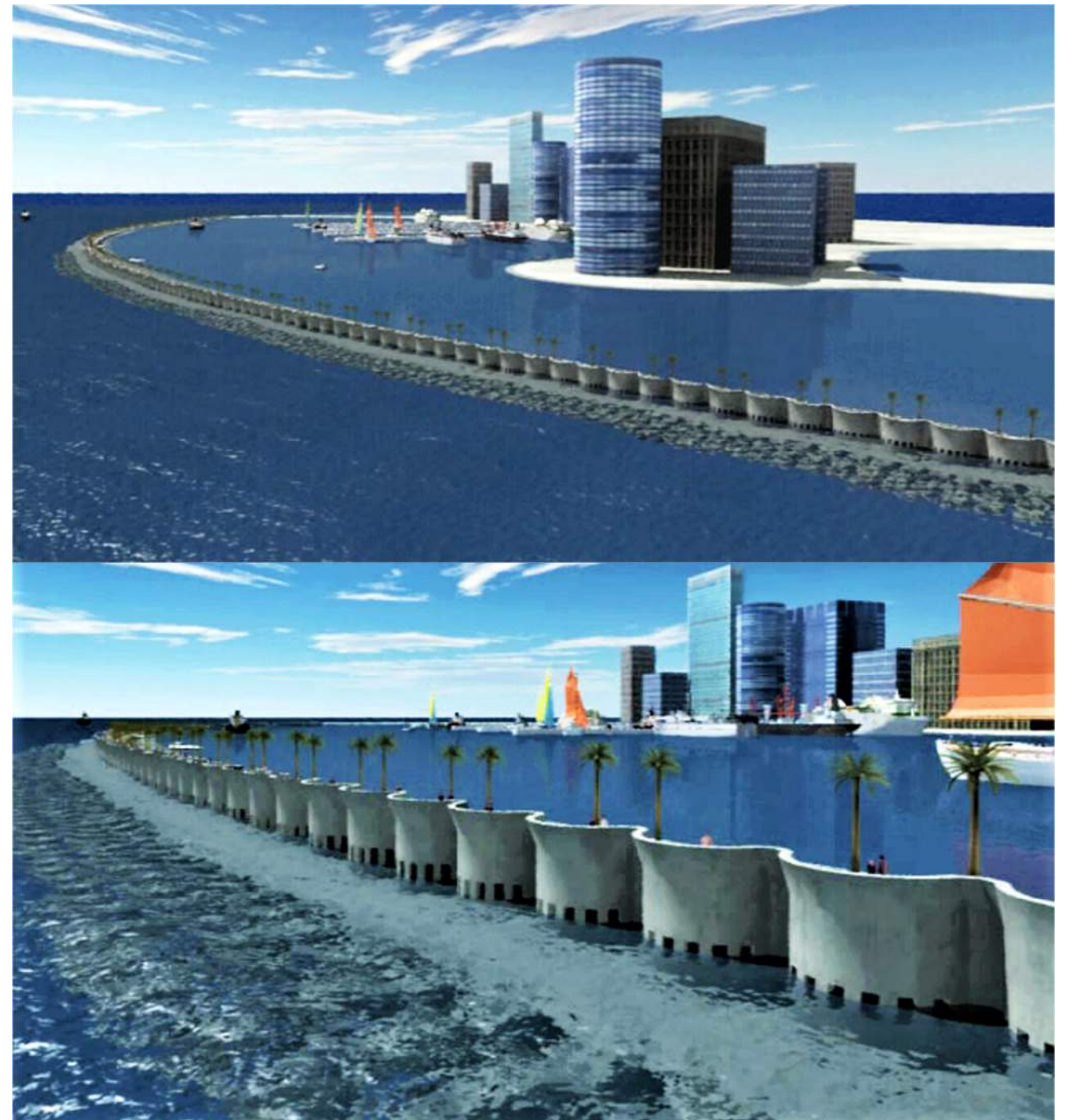
123

Client ARAB EXPRESS Ltd
Location United Arab Emirates (UAE) - Dubai
25°9'10" N
55°11'50" E
Consultant SEATEC sarl

Umm Suqeim 2 Fishing Port

Year 2004 - 2005
Conceptual design

- Rubble Mound Main Breakwater (L=1,000m)
Variant 1: Rubble mound type with 2.5m³ Accropodes blocks Type I
Variant 2: Vertical Composite type (Caisson)
- Feasibility study
- Drawings / BoQ



Ports / Fishing Ports

REHABILITATION WORKS AT SAIDA FISHING PORT

124

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Saida
33°33'50" N
35°22'3" E

Consultant SEATEC sarl

Rehabilitation Works at Saida Fishing Port

Year 2004
Design / Surveying

- Metallic fence for the port (L=465m; H=2.80m)
- New sewerage network (L=50m) with manholes / pumps
- Plastic roof cover (L=40m; W=2.00m) for pathways between fishermen rooms
- Topographic survey
- Tender Documents / Drawings / BoQ



Ports / Fishing Ports / Surveying

CHEIKH ZENNAD FISHING PORT

125

Client LEBANESE REPUBLIC
Ministry of Public Works and Transport
Directorate General of Land and Maritime Transport

Location LEBANON – Cheikh Zennad
34°36'24" N
35°59'8" E

Consultant SEATEC sarl

Cheikh Zennad Fishing Port

Year 2000
Surveying

- Topographic survey (20,000m²)
- Bathymetric survey (185,000m²)
- Drawings



Ports / Fishing Ports / Surveying

UMM SUQEIM 1 FISHING PORT

126

Client ARAB EXPRESS Ltd
Location United Arab Emirates (UAE) - Dubai
25°10'25" N
55°12'52" E
Consultant SEATEC sarl

Umm Suqeim 1 Fishing Port

Year 2004 - 2005
Conceptual design

- Rubble Mound Main Breakwater (L=3,000m)
Variant 1: Rubble mound type with 2.5m³ Accropodes blocks Type I
Variant 2: Vertical Composite type (Caisson)
- Feasibility study
- Drawings / BoQ



Ports / Fishing Ports