



in engineering



about us

who is ROXPLAN

ROXPLAN is a Consulting Engineering Company managed and operated by experienced engineers / geologists committed to the art and science of engineering, always aiming in giving high quality, simple and cost-effective solutions to the projects undertaken.

ROXPLAN is staffed with experienced Engineers, Architects and Engineering Geologists, having extensive experience respectively in all aspects of Engineering (Railway Projects, Hydraulic works, Road and Bridge design, Building designs, Tunnels, Cut & Covers, Slope design etc).

ROXPLAN, operating under ISO9001:2015, using EUROCODES or other Internationally accepted codes for design, with specialized software can produce reliable, fast and economical design solutions for a vast range of engineering projects.

clients & collaborations

ROXPLAN has been cooperating in various projects with international consultants like W.S. Atkins, AEKOM, SSF and ISP of Germany etc.

Our clients include the main organizations which manage the major infrastructure and building projects in a number of European countries, Middle East etc, as well as major contractors like Hochtief, Vinci, Enercon, etc.



what we do

Engineering Design

- Buildings
- Roads
- Bridges
- Hydraulics
- Railways
- Airports
- Ports
- Underground structures
- Retaining Structures / underpinning
- Renewable energy projects
- Landfills
- Mining

countries of our projects



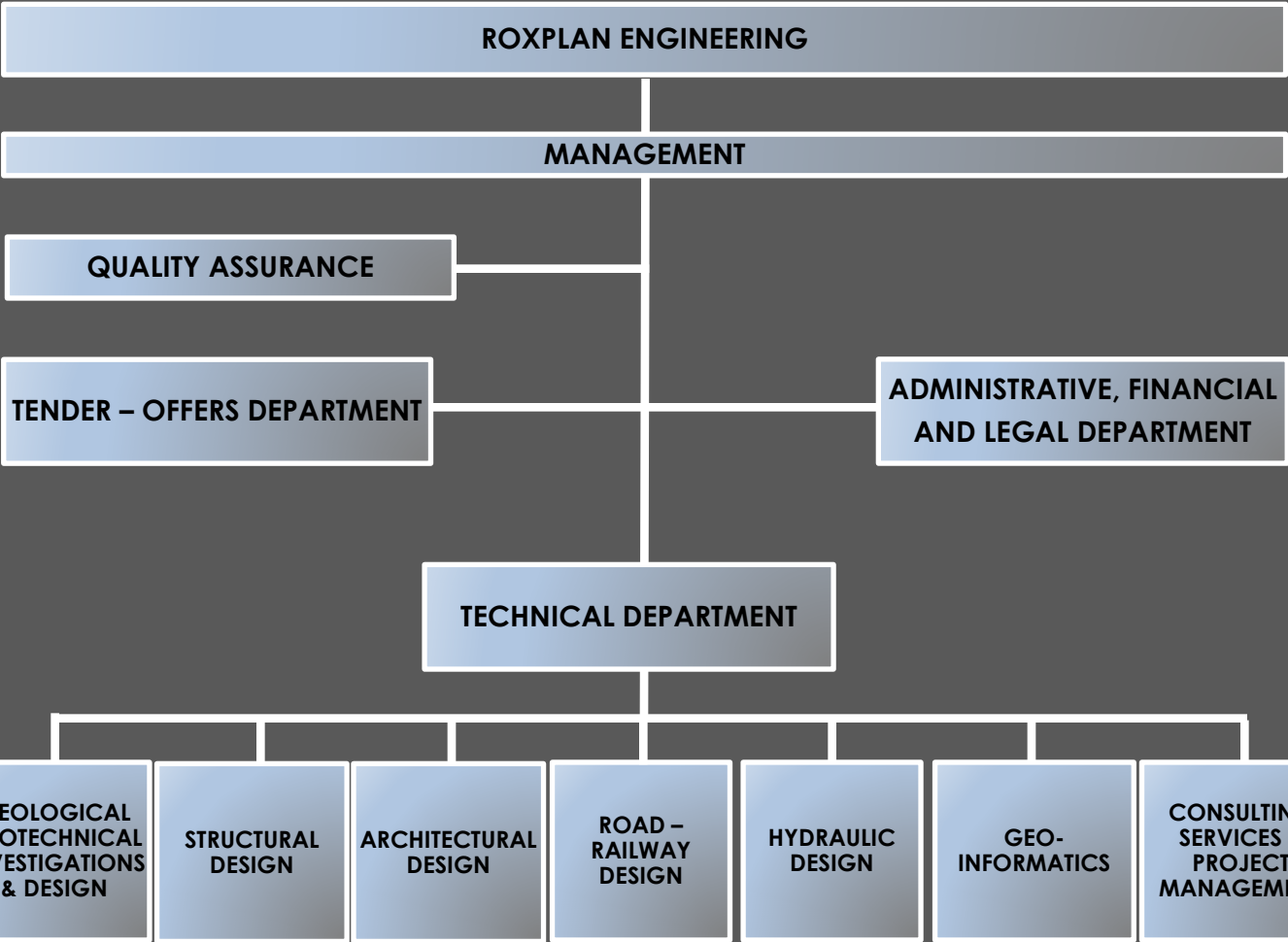
Geotechnical & Geological Investigations and Design

Consulting Services

- Checking of Designs
- Expert Evaluations
- Observation / Interpretation of Instruments
- Value Engineering
- Preparation of Tender Documents
- Evaluation of Contractors' Offers
- Project Management
- Verifications
- Independent Engineer Services
- Risk Assessment



our structure





our expertise—selected projects



road design

Highways and provincial roads of approximately 2,500 km in length,
with 180 high open-cuts, 160 embankments (including Reinforced Embankments),
Pavement Design
Rehabilitation and upgrading of existing roads, etc.





“TIRIA” JUNCTION AND SECONDARY ROADS, SECTION 1.2.2. EGNATIA ODOS, N. GREECE

Client:

EGNATIA ODOS S.A.

Technical Info:

Inspection and Interpretation of Geotechnical Investigations, Final Geotechnical Design of 10Km of Highway with Open Cuts ($H_{\max}=22 - 35\text{m}$) and Embankments ($H_{\max}=10-15\text{m}$).



KORINTHOS-PATRAS-PYRGOS MOTORWAY, SECTION: KIATO-DERVENI, PELOPONNESE, GREECE

Client:

OLYMPIA JV (HOCTHIEF-AKTOR J/V)

Technical Info:

Geotechnical Investigation with 4000m of Boreholes for the needs of the Geotechnical Design of 21 Main Line Bridges and Overbridges ($L=25-120\text{m}$), Cut & Cover ($L=160\text{m}$), Lane Cover ($L=110\text{m}$), 40 Large Box Culverts, 30 High Embankments, 17 Open Cuts and 62 Retaining Walls.



“VERIA CITY” JUNCTION SECTION 5.3. EGNATIA ODOS, GREECE

Client:

EGNATIA ODOS S.A.

Technical Info:

Inspection and Interpretation of
Geotechnical Investigations,
Final Geotechnical Design of the Junction,
including 2 Single Span Bridges,
4 Embankments (L=250-550m) and
2.5Km of Road Design.



OLD NATIONAL HIGHWAY ATHENS-THIVES, SECTION: MANDRA-ERITHRES GREECE

Client:

ATTIKI PREFECTURE

Technical Info:

Geotechnical Investigation with
Coring Boreholes and Trial pits for the
Geotechnical Design of
4 Embankments ($H_{max}=11-22m$, $L=60-200m$),
5 Open Cuts ($H_{max}=10-30m$, $L=140-540m$),
2 Single Span Bridges ($L=15-20m$),
1 Cut & Cover ($L=120m$),
5 Large Box Culverts and
17.5Km of Road Design.





RURAL ROAD 'KANAVARI - THESPIES INTERSECTION - DOMVRAINIA - THISVI - PRODRAMOS', GREECE

Client:
VIOTIA PREFECTURE

Technical Info:

Design of rural road 37.2Km in length, with a single carriageway and a design speed of 80Km/h, including 12 at-grade intersections (3-legged and 4-legged).



TRIPOLI – KALAMATA HIGHWAY, SECTION: TSAKONA – KALAMATA, GREECE

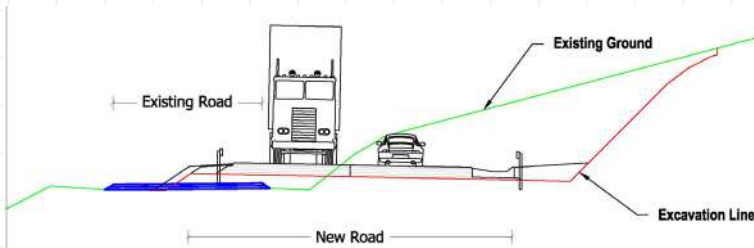
Client:
MINISTRY OF PUBLIC WORKS

Technical Info:

Design of a set of two interchanges serving the connection of Tripoli - Kalamata Highway and Pirgos- Tsakona Highway (trumpet interchange) and the connection of Pirgos-Tsakona Highway and Tripoli - Megalopoli National Road (partial cloverleaf interchange).



road design – improvement



IMPROVEMENT OF AGRINIO - KARPENISI NATIONAL ROAD, (SECTION: AGRINIO - VLASSIS),, CENTRAL GREECE

Client:
MINISTRY OF PUBLIC WORKS

Technical Info:

Improvement Design of Agrinio - Karpenisi National Road to a modern single carriageway rural road with design speed of 80-90Km/h, construction of six at-grade intersections and of local road network to provide access to properties and farms.



DESIGN FOR THE CONSTRUCTION OF COMPLEMENTARY WORKS AT THE ATHENS - SALONICA HIGHWAY, (SECTION: RACHES - AG. THEODORI), GREECE

Client:
MINISTRY OF PUBLIC WORKS

Technical Info:

Full Geotechnical Design including Pavement Design, Open-Cuts, Embankments, Bridges, etc.



CONSTRUCTION OF "SMALL" PATRAS RING ROAD, CH.0+000 - 0+900, GREECE

Client:
WESTERN GREECE PREFECTURE .

Technical Info:

Design of dual carriageway road with two lanes per direction and paved shoulder/ emergency lane, in cut cross sections of significant height.



road design – rehabilitation of asphalt / pavements



REHABILITATION OF
ASPHALT / PAVEMENTS



bridges

110 Road and Railway Overpasses / Underpasses and
30 Long Bridges (River Crossings, Valley Bridges), etc.





DESIGN OF BRIDGES, IN SECTION 6 OF EGNATIA ODOS, MACEDONIA PREFECTURE, GREECE

Client:

EGNATIA ODOS S.A.

Technical Info:

Supervision and evaluation of geotechnical investigations, Final Geotechnical Design of three Main Line Bridges.

Design of special retaining structures for reducing settlements on existing structures due to embankment construction.



BRIDGE CROSSING STRIMONAS RIVER, SECTION 60.2.2, EGNATIA ODOS, MACEDONIA PREFECTURE, GREECE

Client:

EGNATIA ODOS S.A.

Technical Info:

Final-Stage Geotechnical Design of the Bridge crossing Strimonas River ($L_{total}=475m$) with 13 Spans ($L=42-43m$).

Ground improvement of the loose foundation soil with vibro-replacement method.



ATHENS - SALONICA NEW HIGHWAY, SECTION A. THEODOROI – ALMIROS (CH. 261+000 - CH. 286+000), THESSALY, GREECE

Client:

MINISTRY OF PUBLIC WORKS /
METON-ETEP JV

Technical Info:

Inspection and Evaluation of Geotechnical Investigations, Geotechnical Design of two Valley Bridges ($L=180-250m$ in length) and 20 Road Bridges ($L=25-150m$ in length) along a 25km long section of the motorway. Foundation of Bridges was mainly on piles 20 - 40m in length.





**VALLEY-BRIDGE CROSSING
VENETICOS RIVER, SECTION 4.1.3s,
EGNATIA ODOS, MACEDONIA
PREFECTURE, GREECE**

Client:

EGNATIA ODOS S.A. / /FABERMAUNSEL S.A.

Technical Info:

Inspection and Interpretation of Geotechnical Investigations, Final Stage Geotechnical Design of the Bridge Branches 1A ($L_{1A}=531\text{m}$) and 1D ($L_{1D}=636\text{m}$). Branch 1A was designed with 5 Spans (85.6m - 120m) while, branch 1D was designed with 6 Spans (75 - 120m). Foundation of the piers (70m high) was made by shafts and bored piles.



**KOSKARAGA RIVER BRIDGE
PELOPONNESE, GREECE**

Client:

PELOPONNISOS REGION / KYROMITIS S.A.

Technical Info:

Geotechnical Investigation, Geotechnical Design of a Valley bridge.

Special design for filling Karstic Voids by Grouting Techniques.



railways

More than 10 Railway Stations and
several hundred kilometers of railway line.





RECONSTRUCTION OF AT GRADE METRO RAILWAY LINE, ATHENS

Client:
ISAP S.A.

Technical Info:
Geotechnical Investigations with 600m of
Coring Boreholes along a 25.5km of existing
railway line and geotechnical design of the
railway track foundation.

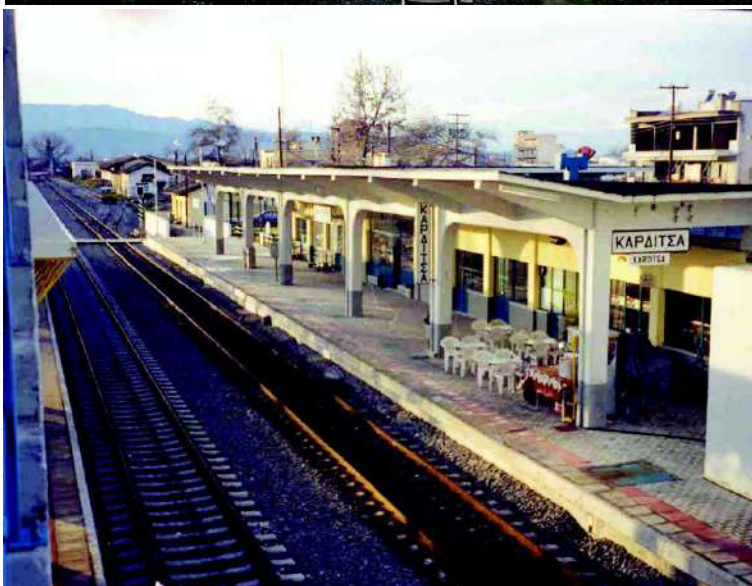




RECONSTRUCTION OF SOFADES KARDITSA - TRIKALA - KALABAKA RAILWAY LINE, THESSALY, GREECE

Client:
ERGOSE S.A.

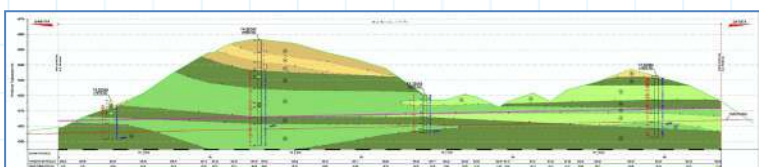
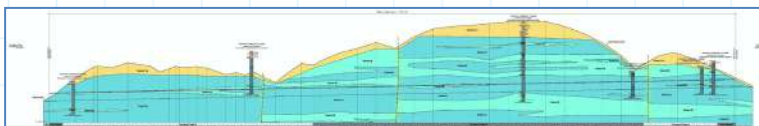
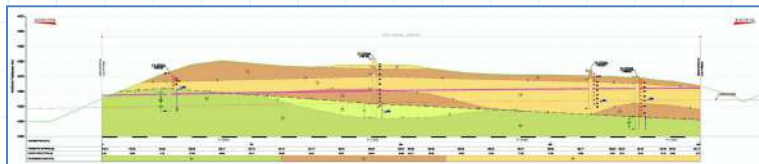
Technical Info:
Geotechnical investigations, design and material quality control for the railway track foundation of 60 km of Railway Line.



DESIGN AND CONSTRUCTION OF SGR NEW RAILWAY LINE (230km), BETWEEN KAMPALA AND MALABA, UGANDA

Client:
MINISTRY OF PUBLIC WORKS AND
TRANSPORT OF UGANDA (SGR)

Technical Info:
Design, Review, Supervision and Consulting
Services for the complete SGR Railway Line
in cooperation with SSF Ingenieure AG, SSF
International GmbH and PEC.



NEW RAILWAY LINE "KALAMBAKA – KOZANI", SECTION "DIMITRA – SIATISTA", KM 69+000 – 83+500 (PHASE B) A.D. 1106, GREECE

Client:
GREEK RAILWAYS S.A.

Technical Info:
Design for a 14,5km New Railway Line with
Design of 14 Railway Bridges, 7 Tunnels,
Embankments and Open-Cuts, including
Geotechnical Investigations and
Geotechnical Interpretation Reports



DESIGN OF IMPROVEMENT OF EXISTING RAILWAY LINE THESSALONIKI – PROMACHONAS, GREECE

Client:
ERGA OSE S.A.

Technical Info:
Design of 100km of Railway Line including
Geotechnical Investigations, Geotechnical
Interpretative Reports and Design of:

- 17 Railway Bridges,
- 5 Road Bridges,
- Open-Cuts and
- Embankments



underground structures

Metros, Railway and Road Tunnels, Cut and Covers, Large Conduits ●





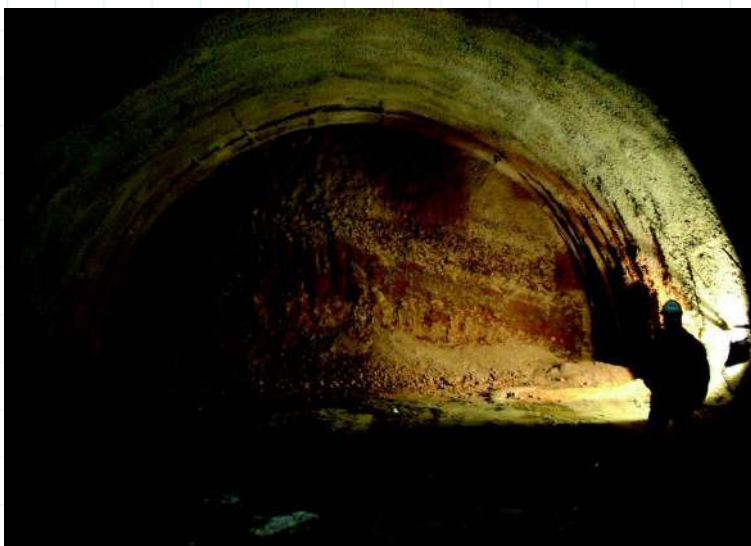
ATHENS METRO

Client:

ATTIKO METRO S.A.

Technical Info:

Geotechnical Consulting Services, consisting of the management of the Athens Metro owner Geotechnical Department for Lines 2 and 3 of the Metro (25km underground lines, 21 stations, depot and other auxiliary structures.



NEW HIGH SPEED RAILWAY LINE ATHENS – KORINTHOS PATRAS, “AIGIO” AREA TUNNEL PELOPONNESE, GREECE

Client:

ERGOSE S.A. / WS ATKINS S.A.

Technical Info:

Geotechnical Investigation with Coring Boreholes and Pre-Final Geotechnical Design of the main Tunnel (L=3,5Km), 2 Cut & Covers and 3 Escape Tunnels (L=250-350m).



DOHA METRO, QATAR

Client:

DEUTSCHE BAHN INTERNATIONAL / QATAR RAIL

Technical Info:

Geotechnical & Tunneling Services for Tender Preparation for the Doha Metro, 50Km of Double Tube Tunnel, 25 Stations and other auxiliary Structures.



DOHA METRO, QATAR

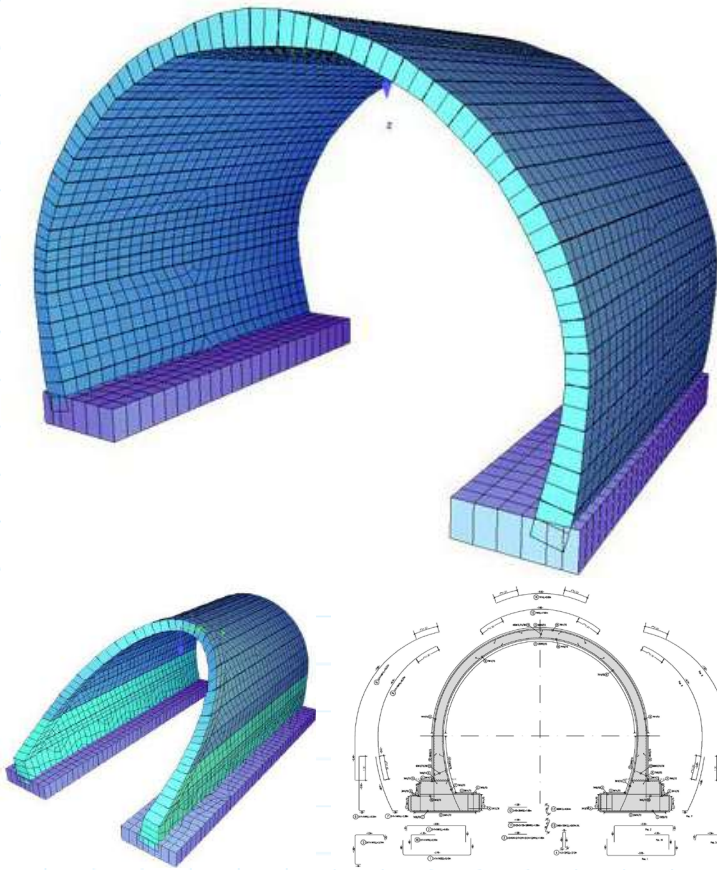
Client:

SSF INGENIEURE AG / PORR - SBG - HBK / QATAR RAIL

Technical Info:

Geotechnical Investigation and Evaluation
- Dewatering Design - Stations Temporary Structures Design - Risk Assessment for the Green Line of the Doha Metro.
17 km of Twin-Tube Tunnel,
10 Stations - Switch Boxes etc.





ITEA AREA HIGHWAY TUNNELS- GREECE

Client:

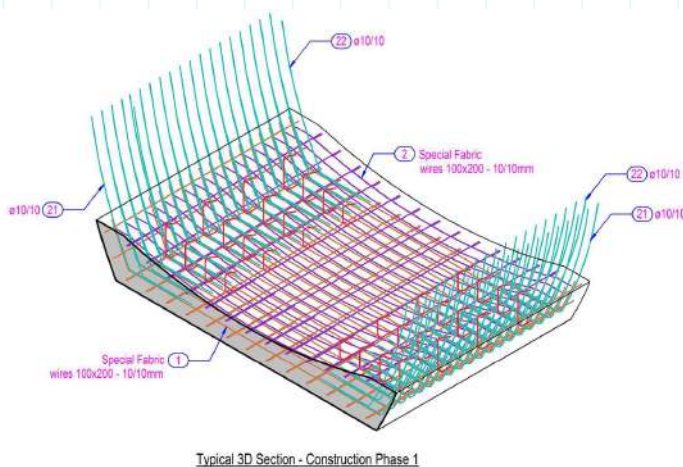
GREEK MOTORWAY E65

Technical Info:

Itea tunnels are part of the national Greek motorway Lamia- Itea-Antirion, which carries the European route E65.

The first tunnel has a length of about 400m and the second one has a length of about 1,960m.

Offered Services: Structural Calculations, Detail Design Drawings.



WATER TUNNEL-KENYA

Client:

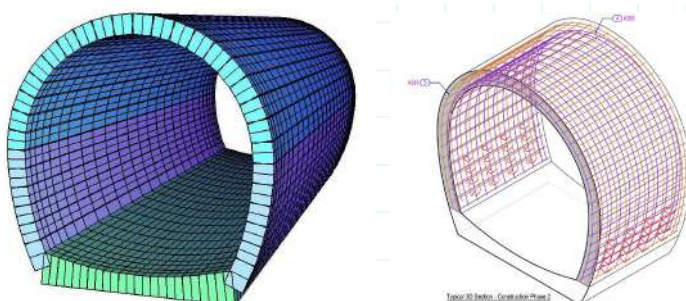
SMEC INTERNATIONAL PTY LTD

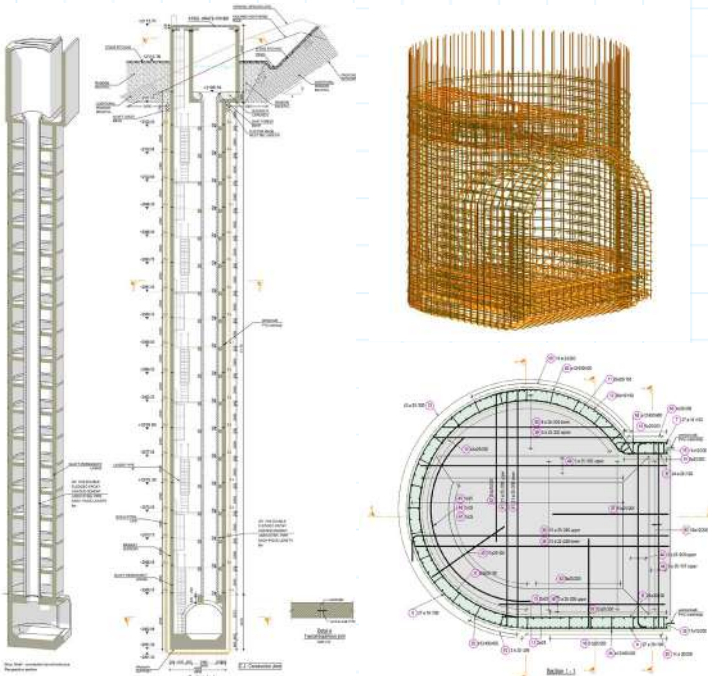
Technical Info:

Design of the tunnel final lining reinforcement of the "Northern Collector Tunnel (NCT) Phase 1" The Northern Collector Tunnel (NCT) Phase 1 is a water transfer tunnel, transferring raw water from intakes at the Maragua, Gikigie and Irati Rivers to an outlet at the Githika River near Makomboki, upstream of the existing Thika Reservoir.

The project comprises an 11,775m long tunnel main collector tunnel with a nominal tunnel diameter of 3.2 m.

Offered Services: Structural Calculations, Detail Design Drawings





MAIN WATER TUNNEL-KENYA

Client:

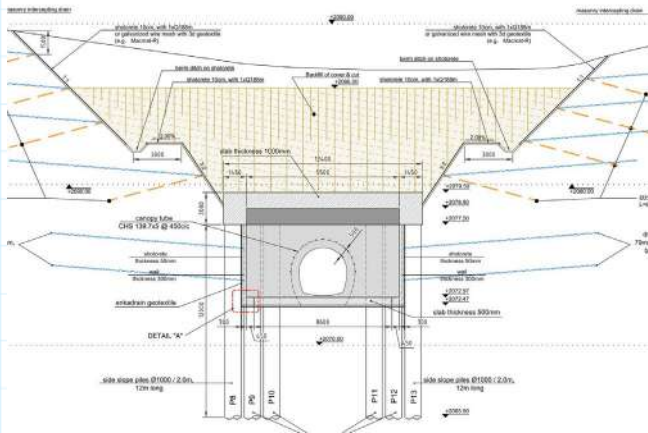
SMEC INTERNATIONAL PTY LTD

Technical Info:

Irati river area, an approximately 53m deep drop shaft, of 4m diameter is conveying water for Irati river to the main tunnel through a 1.1m steel pipe.

An approximately 18m long adit (having the same nominal tunnel diameter with the main tunnel) connects the Irati shaft connection with the main tunnel.

Offered Services: Structural Calculations, Detail Design Drawings



MARAGUA PORTAL ZONE-KENYA

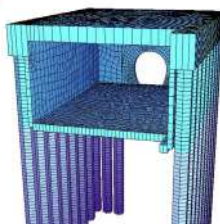
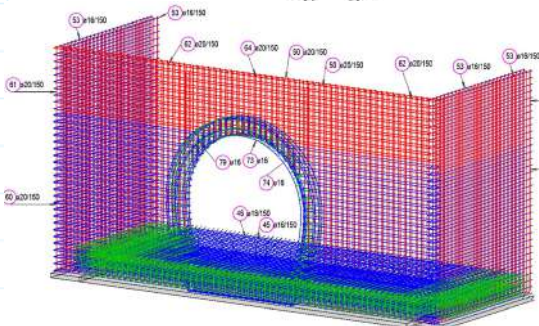
Client:

SMEC INTERNATIONAL PTY LTD

Technical Info:

The portal area is located at the foot of the highest and steepest cliff across the project, at the right bank of Maragua river. Cover & Cut methodology with construction of two pile rows on the left and right hand side of the excavation connected by a continuous slab at level +2078.5m followed by underground excavation.

Offered Services: Structural Calculations, Detail Design Drawings





MONASTIRAKI STATION - ATHENS METRO, GREECE

Client:

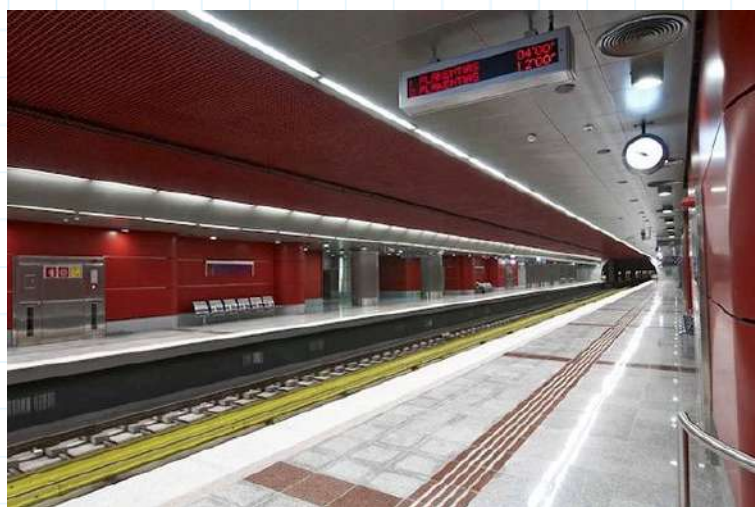
ATTIKO METRO S.A.

Technical Info:

Detail Design of Temporary Retaining Structures for Monastiraki Station for the Athens Metro Project.

Detail Design of Permanent Structures for the Tunnel connecting the existing station to the new one, for the Athens Metro Project.

Offered Services: Structural Calculations, Detail Design Drawings



OMONIA STATION - ATHENS METRO, GREECE

Client:

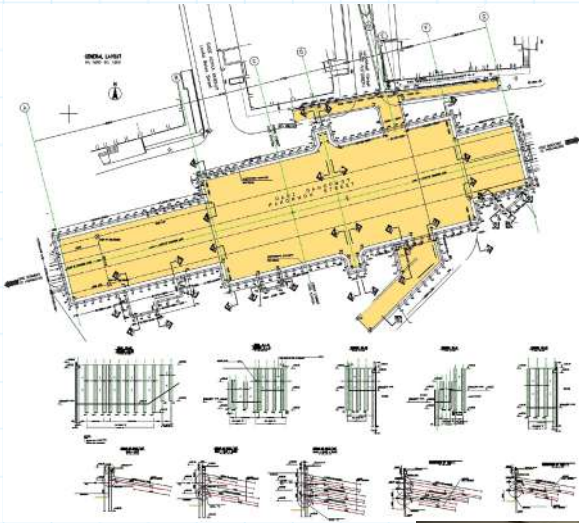
ATTIKO METRO S.A.

Technical Info:

Detail Design of Temporary Retaining Structures for Omonia Central Station for the Athens Metro project.

Detail Design of Permanent Structures for Omonia Central Station for the Athens Metro Project.

Offered Services: Structural Calculations, Detail Design Drawings



PANORMOU STATION - ATHENS METRO, GREECE

Client:

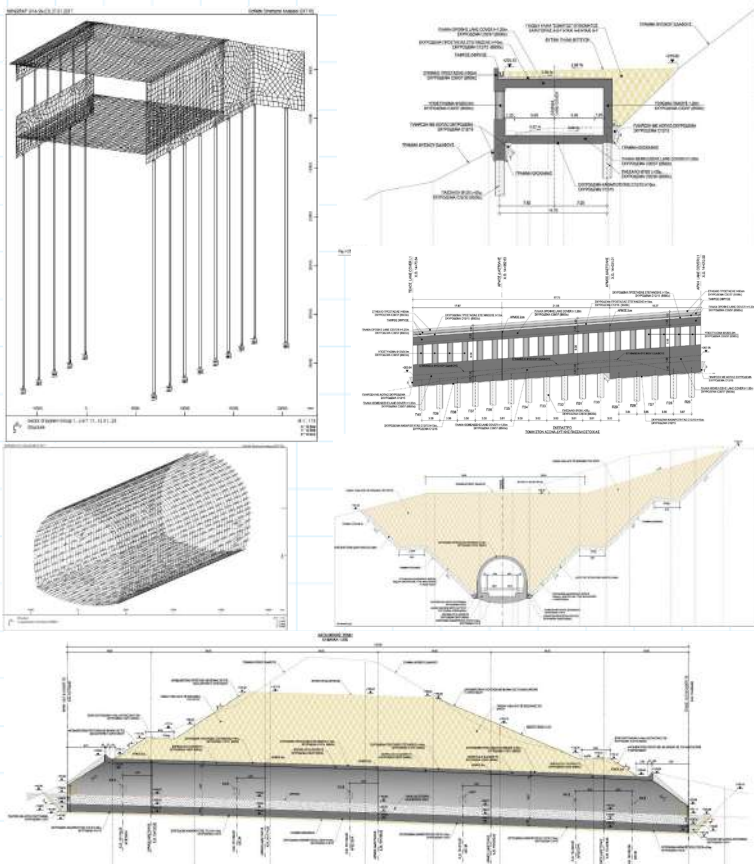
ATTIKO METRO S.A.

Technical Info:

Detail Design of Temporary Retaining Structures for Panormou Station for the Athens Metro Project.

Detail Design of Permanent Structures for Panormou Station for the Athens Metro Project.

Offered Services: Structural Calculations,
Detail Design Drawings



LANE- COVERS AND CUT & COVERS AT MEGARA - ALEPOXORI ROAD, GREATER ATHENS AREA, GREECE

Client:

PREFECTURE OF ATTIKA

Technical Info:

The Lane Cover structure has a total length of 60m with pile foundation connected with a slab. The west side of the structure starts with a concrete wall, columns are following and end with a beam, while the eastern side consists of a concrete wall. The roof slab is 1.2m thick and in the west side as well as on the facades of the lane cover, a parapet 0.5m thick and 1.5m in height is constructed.

Three CUT & COVER structures T1, T2 and T3 having lengths of 137m, 208m and 132m respectively. The cross sections are closed domes with a reverse dome and the typical cross section includes 2 traffic lanes 8.0m wide with sidewalk of 1.25m width in both sides. The maximum overburden reaches the 20m.

Offered Services: Full Design



hydraulic works

17 Dams, 20 Reservoirs, 14 Irrigation/Sewage Networks and Pump-houses.





"EGARES" RESERVOIR, NAXOS ISLAND, GREECE

Client:
MINISTRY OF AGRICULTURE

Technical Info:
Geotechnical Consulting Services and Quality Control during the construction of the reservoir, 20m in height and 150m long and 600.000m³ in volume.



"PANAGIOTIKO" DAM IN MAGNISIA MUNICIPALITY, THESSALY, GREECE

Client:
MINISTRY OF AGRICULTURE

Technical Info:
Final Geotechnical Design of a rock-fill Dam, 40m in height, 150m long and 2.500.000m³ in volume with an up-stream concrete slab.



"DESKATI" DAM OF GREVENA CITY AREA, MACEDONIA PREFECTURE, GREECE

Client:
MUNICIPALITY OF DESKATI

Technical Info:
Geotechnical Design of an earth Fill Dam, 26m in height, 280m long and 1.000.000m³ in volume.



“KATO PITSA” RESERVOIR, PELOPONNESSE PREFECTURE, GREECE

Client:

MUNICIPALITY OF KORINTHIA

Technical Info:

Consulting Services - Quality Control during construction of the Reservoir, 15m in height, 120m long and 315.000m³ in volume.



“ERESSOS” DAM, LESVOS ISLAND, GREECE

Client:

MINISTRY OF AGRICULTURE

Technical Info:

Consulting Services during construction of a Dam, 30m in height, 350m long and 2.750.000m³ in volume.



“KORIS GEFIRI” DAM, CHIOS ISLAND, GREECE

Client:

MINISTRY OF AGRICULTURE

Technical Info:

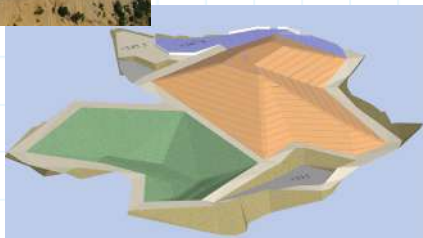
Consulting Services – Quality Control during construction of an R.C.C. Dam, 37m in height, 120m long and 3.000.000 m³ in volume.



landfills

Design of more than 15 landfills.





DESIGN OF 2nd REGIONAL UNIT OF IPIROS LANDFILL, GREECE

Client:

IPIROS PREFECTURE

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 12,500,000

Euros Number of Cells: 2

Cell Volume: 486,552m³ (A) and 306,901m³ (B)

Offered Services: Geotechnical Tender Design



DESIGN OF KERKYRA ISLAND LANDFILL, GREECE

Client:

MUNICIPALITY OF KERKYRA

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 4,200,000

Euros Number of Cells: 2

Cell Volume: 280,000m³

Cell Area Coverage: 31,467m² (A) and 11,809m² (B)

Offered Services: Geotechnical Tender Design



DESIGN OF TRIKALA LANDFILL, GREECE

Client:

TRIKALA PREFECTURE

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 9,500,000 Euros

Number of Cells: 1

Cell Volume: 630,000m³

Cell Area Coverage: 76,000m²

Offered Services: Geotechnical Tender Design



DESIGN OF NAXOS ISLAND LANDFILL, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 6,000,000 Euros

Number of Cells:1

Cell Volume: 463,400 m³

Cell Area Coverage: 44,000m²

Offered Services: Geotechnical Prefinal Design



DESIGN OF XYLOKASTRO (3rd PELOPONNESE REGIONAL UNIT) LANDFILL, GREECE

Client:

PELOPONNESE REGION

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 4,650,000

Euros Cell Volume: 312,500m³

Offered Services: Geotechnical Tender Design



DESIGN OF KARPATHOS ISLAND LANDFILL, GREECE

Client:

MUNICIPALITY OF KARPATHOS

Technical Info:

Design of landfill with the following characteristics:

Construction Budget: 3,000,000

Euros Number of Cells:2

Cell Volume: 159,000m³

Cell Area Coverage: 16,405m² (A)
and 7,278m² (B)

Offered Services: Geotechnical Services



renewable energy projects

96 Photovoltaic Parks (total power: 5.5GW), 50 Wind Farms (total power: 672MW),
20 Substations, Hydropower Stations, Solar Power Plants.

renewable energy projects – windfarms



WIND FARM AT “VOSKERO” AREA, HERAKLIO PREFECTURE, CRETE ISLAND, SOUTHERN GREECE

Client:

DOMIKI KRITIS S.A.

Technical Info:

Geotechnical Investigations with continuously monitored wagon drilling and Geotechnical Foundation Design with special ground improvement for subsoil cavities, for a wind farm consisting of 7 Wind Turbines, (50m high).

Park Power: 6MW



“AGIOS IOANNIS” WIND FARM, LASITHI AREA, CRETE ISLAND, GREECE

Client:

PLASTIKA KRITIS S.A.

Technical Info:

Geotechnical Investigations with continuously monitored wagon drilling and Geotechnical Foundation Design for a wind farm consisting of 9 Wind Turbines, (47m high).

Park Power: 11.9MW

renewable energy projects – P/V projects



**P/V PARK of 550MW IN PTOLEMAIDA,
OWNED BY THE GREEK PUBLIC POWER
CORPORATION RENEWABLES (PPCR),
NORTHERN GREECE**

Client:

PPCR S.A

Technical Info:

Geotechnical investigations with Coring Boreholes, Trial Pits, CPT's, Pull-out tests, Geophysical Investigations, Laboratory Tests of Soil and Rock Samples, Geotechnical Interpretation Reports, Geotechnical Foundation Designs, Geotechnical Slope Stability Designs, Geotechnical Settlement Designs.

Park Area: 14km²

Park Power: 550MW



**ATHENS INTERNATIONAL AIRPORT P/V
PARK, ATHENS GREATER AREA,
GREECE**

Client:

AKTOR S.A.

Technical Info:

Geotechnical investigations with Coring boreholes, Standard Penetration Tests (SPT) and Permeability Tests, Trial Pits, Laboratory Tests, Thermal resistivity tests, Dynamic Cone Penetration (DCP) Tests, Geotechnical Interpretation Report and Geotechnical Foundation Reports.

Park Area: 209,000m²

Park Power: 16MW



renewable energy projects – consulting services during construction



“GAVROVO” AND “CHIONAKI” WINDFARMS, WESTERN GREECE

Client:

RESTEC RENEWABLE TECHNOLOGIES S.A.

Geotechnical Consulting Services during the construction phase of the “Gavrovo” and “Chionaki” Wind Farms at the Pindos mountain range.

Specific issues / difficulties encountered included the existence of karstic voids, dolines and sinkholes in the limestone substrata, the quality control of the square embankments, slope stability issues, etc. Works included Quality control of the contractor's geotechnical works during construction, check of the Geotechnical Interpretation and Design Reports.



“GERAMPI” WIND-FARM, ARTA PREFECTURE, GREECE

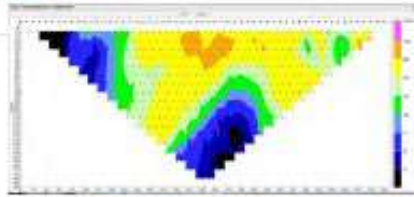
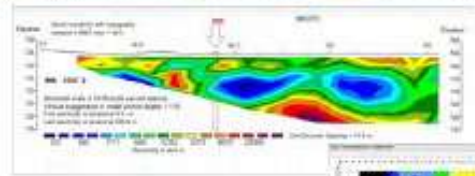
Client:

AKTOR S.A.

Geotechnical Consultant during the construction phase of the “Gerambi” Wind Farm. Specific issues / difficulties encountered included the existence of karstic voids, dolines and sinkholes in the limestone substrata.

Works included Quality Control with DCP, DPL and PLT of the backfill layers of the squares, the roads and slope stability of the embankments





EARTHING BOREHOLES FOR NEW SUBSTATION NEAR STANOS, AMFILOCHIA MUNICIPALITY, WESTERN GREECE

Client:
KIEFER TEK LTD

Geophysical investigation and construction of two grounding boreholes for a medium voltage substation, located approximately 800m south of village Stanos of Amfilochia Municipality. Determination of the subsoil electrical resistivity distribution to a depth of 270m and selection of the most suitable in terms of subsoil conductivity locations for grounding boreholes.



MAKROCHORI II SMALL HYDROELECTRIC POWER PLANT, VERIA, NORTHERN GREECE

Client:

PUBLIC POWER CORPORATION
RENEWABLES S.A.(PPCR)

Geotechnical Investigations and Design of parts of the Hydroelectric Plant.
Programming of Geotechnical Field and Laboratory Investigations (Coring Boreholes, Trial Pits), Supervision of Investigations, Geotechnical Interpretation Report, Foundation Design Report.



SOLAR THERMAL POWER PLANT OF 25MW MUNICIPALITY OF LEFKI, CRETE ISLAND, SOUTHERN GREECE

Client:

ABENGOA SOLAR

Geotechnical, Geological and Geophysical Investigation. Preliminary Foundation Design of a 200m high Power Tower, 5 Industrial Building Complexes and 1.7km² of Panels area.

Geotechnical Investigations included a combination of ERT Geophysical survey, Coring boreholes, Laboratory Testing, geological mapping, discontinuities measurements, Geotechnical Interpretation Report, Geotechnical Foundation Design.



buildings

Schools and University Complexes, Conference Complexes, Health Care Structures (Hospitals, etc), Administration, Residential, Industrial, Shopping Centers, etc.





INDUSTRIAL COMPLEX OF LARKO S.A.,

Client:

LARKO S.A. / E' TECHNIKI S.A.

Technical Info:

Geotechnical Investigation and Geotechnical Design for retaining structures supporting industrial facilities.



PRINTING INDUSTRIAL COMPLEX OF D.O.L., VIOTIA MUNICIPALITY, GREECE

Client:

DOL S.A.

Technical Info:

Geotechnical Investigation with Coring Boreholes and Trial Pits and Geotechnical Design for an Industrial Complex of Buildings, with ground coverage of 25.000m², including special foundation design of large and heavy machine complexes.

Quality control services during construction of backfilling and excavations.



NATIONAL LIBRARY, PRAGUE, CZECH REPUBLIC

Client:

J & P DEVELOPMENT

Technical Info:

Geotechnical Design for a Building with ground coverage of 6200m², total Height of 27m and total floor area of 63.000m².



BIOCLIMATIC HIGHSCHOOL BUILDING IN KREMASTI, RHODES ISLAND, GREECE

Client:
RHODES MUNICIPALITY

Technical Info:
Design of a building housing 15 classrooms, 4 laboratories, multipurpose room, gym, library, surgery, administrative and personnel offices. According to the bioclimatic design of the building the appropriate specialized heating and cooling systems were designed in order to achieve power conservation and at the same time thermal and visual comfort therefore making use of the climate conditions of the area.

Total building coverage: 3,436m².



HEALTH CARE CENTER FOR SENIORS, ATHENS, GREECE

Client:
MUNICIPALITY OF ATHENS

Technical Info:
The design includes a building consisting of two basements, ground floor and three upper floors. It will house the Seniors Public Care Center, the doctors' offices and examination rooms, administrative services, insurance services and auxiliary spaces.

Total building coverage: 2,568m²



KOSMOPOLIS PARK SHOPPING MALL, KOMOTINI CITY, THRACE PREFECTURE, GREECE

Client:
REAL ESTATE DEVELOPMENT KOMOTINI S.A.

Technical Info:
Geotechnical Design with Coring Boreholes and Trial Pits and Geotechnical Design of Buildings of a Shopping Mall at Komotini City.

It is a Complex of Buildings of 10.000m² ground coverage with two basements and five floors at an environment of high ground water level.



RESIDENTIAL COMPLEX OF BUILDINGS, CRAKOW, POLAND

Client:

W.S. ATKINS

Technical Info:

Geotechnical Design for a Complex of Residential Building with ground coverage of 8.500m², total Height of 24m and total floor area of 31.500m², with three basements close to a river with loose sand-gravel deposits.



ELEMENTARY SCHOOL IN KEA ISLAND, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

Geotechnical Investigation and Design of 3 buildings:

- Building A, consisting of basement and ground floor, with total coverage 865m² and
- Buildings B and C, consisting of ground floor and second floor, with total coverage of 391m² and 347m² respectively.

Additionally design of surrounding area including basketball, volleyball and football courts.



landslides

Treatment of Landslide Phenomena and Failures,
Design of Rehabilitation Measures, etc





REMEDIAL MEASURES FOR THE PROTECTION OF NORTHERN SLOPES OF THE KARIES STADIUM IN CHIOS, CHIOS ISLAND, GREECE

Client:
MUNICIPALITY OF CHIOS

Technical Info:

The under design slope presented with risks of larger failures, thus rendering an adjacent stadium unusable. It is 210m in length and 35m in height slope.

Works included: Geological – Geotechnical mapping of the slope area, Design for the protection and formation of the slopes, including formation of the open-cut in combination with installation of nails and the placement of anchored metal mesh including the works required for the smoothing / reinforcement of the slope.



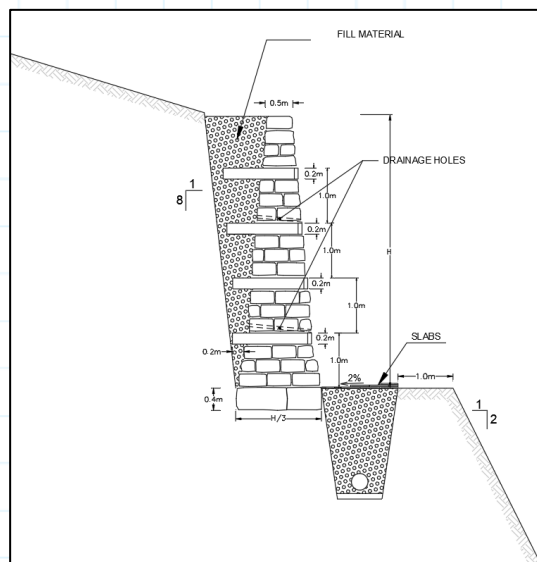
TREATMENT OF LANDSLIDE PHENOMENA AND FAILURES AT PRIVATE RESIDENCE, PERISTA SETTLEMENT, MUNICIPALITY OF NAFPAKTIA, GREECE

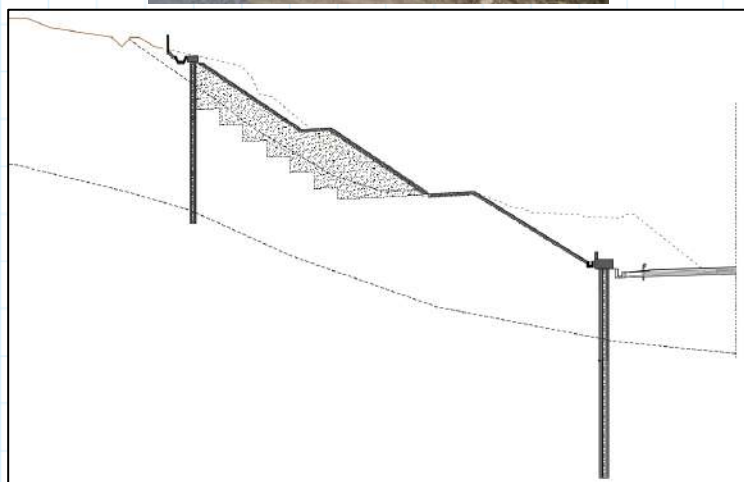
Client:
GEORGIOS CHATZINIKOLAOU

Technical Info:

Extensive failure phenomena observed at the under design area following periods of intense rainfall.

Works included: Geological – Geotechnical survey of the area of the failures, Rehabilitation Design including the proposal of construction of retaining wall in combination with deep drainage system.





REHABILITATION OF FAILURE AND CREEPING PHENOMENA AT THE OPEN SLOPE O530, BETWEEN CH. 52+952 AND CH. 53+259 (DERVENI) OF THE EKPPT HIGHWAY, SECTION KORINTHOS – PATRA, GREECE

Client:

APION KLEOS JV / OLYMPIA JV

Technical Info:

During construction of the Korinthos - Patra (EKPT) Highway, failure phenomena appeared at the area of the Open-Cut O530 located between Ch. 52+952 and Ch. 53+259 (Derveni Area).

Works included: Geotechnical Investigations with Coring Boreholes, Design of Rehabilitation Measures opted for the implementation of a retention system that consisted of construction of a double Pile wall, connected with beams.



REMEDIAL MEASURES OF SLOPES UNDER FAILURE AT A COASTAL LAND, "PALAIOVARKA" AREA OF VONITSA, AETOLOAKARNANIA PREFECTURE, GREECE

Client:

MARIA FRAGKOU

Technical Info:

The area included slopes 5 - 6m in height, approximately 100m in length at a 60 acre coastal land.

Works included: Geological – Geotechnical Mapping of the area, Execution of Geotechnical Investigation with Coring Boreholes – Data Evaluation, Proposals for the Protection and Rehabilitation including the smoothing of the slopes and their protection by construction of gabions.



TREATMENT OF LANDSLIDE PHENOMENA AT THE TALA SETTLEMENT AREA, IN PAFOS PROVIDENCE, CYPRUS

Client:
GEOINVEST Ltd

Technical Info:

A constructed Building Complex at the east of the city of Pafos in Cyprus, presented failures in the form of cracks, cavings or ground elevations as a result of landslide phenomena.

Works included: Geotechnical survey of the area with Investigations and Geotechnical Design of treatment proposals with underpinning of the buildings with piles, demolition and reconstruction where advanced damages had occurred and reinforcement of existing retaining walls with micro-piles.



LANDSLIDE TREATMENT AT THE GAVROVO WINDFARM ACCESS ROADS, CH. 8+100, AETIOLOAKARNANIA PREFECTURE, GREECE

Client:
RESTEC S.A.

Technical Info:

During the Construction of Access Roads (Ch. 8+100) at the Gavrovo Windfarm, landslide and rockfall phenomena appeared at a high slope.

Works included: Execution of Coring Boreholes, Installation of inclinometers and subsequent measurements and Design of mitigation protection measures.



SLOPES REHABILITATION ALONG THE ROAD EPIDAVROS – DRIPI, ARGOLIDA PREFECTURE, GREECE

Client:

AN.ANASTILOTIKI ATE / PIRAEUS PREFECTURE

Technical Info:

During the construction of the road connecting Palia Epidavros with Driopi and Galata, rock failures of slopes occurred, at various locations.

Works included: Geological / Geotechnical Investigations and Geotechnical Design with proposal of various rehabilitation measures, depending on the area, such as excavation of open slopes with steps, rock traps with protective wall, drainage measures and rock retention fences at the edge of slopes.



REHABILITATION OF DAMAGES CAUSED BY EARTHQUAKES, AT THE NATIONAL ROAD NETWORK OF KEFALONIA ISLAND, GREECE

Client:

GREEK MINISTRY OF PUBLIC WORKS

Technical Info:

Geotechnical Investigations and Design for the rehabilitation of Damages caused by earthquakes, at seven locations along the National Road Network of Kefalonia Island





retaining structures - underpinning

Significant projects including design, construction and supervision of retaining structures in cut & cover tunnels and stations of the Athens and Doha Metros.



retaining structures – underpinning



NEW SHOPPING MALL CENTER AT LARISSA RAILWAY STATION AREA, ATHENS, GREECE

Client:
KAROYZOS CONSTRUCTION S.A.

Technical Info:

Geotechnical Design for the Temporary Retaining Structure consisting of a 21.5m Deep Anchored Piled Retaining Wall, designed for the construction of a 5 floor underground parking – garage.



“TIMAGENIS” BUILDING AT PIRAEUS PREFECTURE, GREECE

Client:
TIMAGENIS S.A.

Technical Info:

Geotechnical Investigation and Geotechnical Design for a 10m Deep Anchored Piled Retaining Wall, designed to Retain 2 Basements, excavated Under Existing Old Masonry Building.



retaining structures – underpinning



“KARELIAS INDUSTRY”, KALAMATA CITY AREA, PELOPONNESE, GREECE

Client:
KARELIAS S.A.

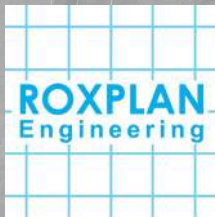
Technical Info:
Geotechnical Investigation with Coring Boreholes inside Buildings and Geotechnical Design of micro-pile support system for underpinning nine Buildings of the “Karelias” industry.



TECHNICAL COLLEGE, KARPENHSI, EVRITANIA MUNICIPALITY, GREECE

Client:
EVRITANIA MUNICIPALITY

Technical Info:
Geotechnical Investigation with Coring Boreholes and Geotechnical Design of pile support system for underpinning Buildings of the Technical College.



airports

10 Airport Investigation and Designs.





IKARIA ISLAND AIRPORT, GREECE

Client:

MINISTRY OF TRANSPORTATION

Technical Info:

Geotechnical Investigations and Design of new airfield pavement, extension of the existing and design of the new open cuts of the airport area, design of buildings foundation and access roads.



"DIMITRIOS VIKELAS" AIRPORT IN SIROS ISLAND , GREECE

Client:

MINISTRY OF TRANSPORTATION - CIVIL
AVIATION AUTHORITY

Technical Info:

Syros Airport "Dimitrios Vikelas"
(1 Passenger terminal, 1 fire fighting station,
Airport fire protection category 3, 2 aircraft
parking positions 160x65meters, 6 general
aviation aircraft parking positions,
Elevation 72m above mean sea level,
runway ID 18/36 1,080 x 30 meters).

Offered Services: Design of the main
building of the airport (approx. 780m² ,
composite structure) and several auxiliary
structures (with total area 1,150m²).



"ARISTOTELIS" AIPTORT IN KASTORIA, GREECE - LANDSCAPING AND EXPANSION OF THE RUNWAY

Client:

MINISTRY OF TRANSPORTATION - CIVIL
AVIATION AUTHORITY

Technical Info:

Kastoria Airport, 1 passenger terminal,
2 Aircraft parking positions B737 sized
aircrafts, 2,000m² parking space for light
aircrafts, runways 2,698 x 45 meters.

Offered Services: Geotechnical
Investigations and design for the
connection of the new with the old runway,
borrow pits investigation for the materials
needed for the construction, design of
embankments and trenches, settlement
checks, temporary design of the new
runway needed for aircrafts with
International Standards.





LARNACA INTERNATIONAL AIRPORT "GLAFCOS CLERIDES" , CYPRUS

Client:

CUNNINGHAM LINDSEY, CYPRUS

Technical Info:

Larnaca International Airport (with 4.5 million passengers, 1 passenger terminal, 1 cargo terminal, 21 aircraft stands, 48 check-in desks, 9 gates, 3 baggage claim belts, runways ID 04/22, 2,980 x 45 meters).

Offered Services: Consulting Services for the rehabilitation of damaged taxiways.



NEW KALAMATA AIRPORT, GREECE

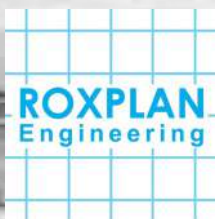
Client:

MINISTRY OF TRANSPORTATION - CIVIL AVIATION AUTHORITY

Technical Info:

Structural Design of building that includes arrival and departure lounges, waiting areas, canteen and other auxiliary areas. Total building coverage: 2,400m²





ports, off-shore structures

15 Port Structures and participation in the design of 2 Oil Platforms.





IMPROVEMENT AND EXTENSION OF EXISTING HARBOR FACILITIES SIFNOS ISLAND, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

Geotechnical Investigation with off-shore Boreholes and Geotechnical Design of the Foundation Conditions of the new Port Facilities.



IMPROVEMENT AND EXTENSION OF EXISTING HARBOR FACILITIES SYROS ISLAND, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

Geotechnical Investigation with off-shore Boreholes and Geotechnical Design of the Foundation Conditions of the new Port Facilities.





NEW PORT IN "PSATHI", AND NEW FISHING SHELTER IN "AGIOS MINAS", KIMOLOS ISLAND, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

Geotechnical Investigation with off-shore Boreholes and Geotechnical Design of the Foundation Conditions of the new Port and Fishing Shelter Facilities.



NEW FISHING SHELTER IN "KARAVOSTASI" AND EXPANSION OF "KARAVOSTASI" PORT, FOLEGANDROS ISLAND, GREECE

Client:

KYKLADES PREFECTURE

Technical Info:

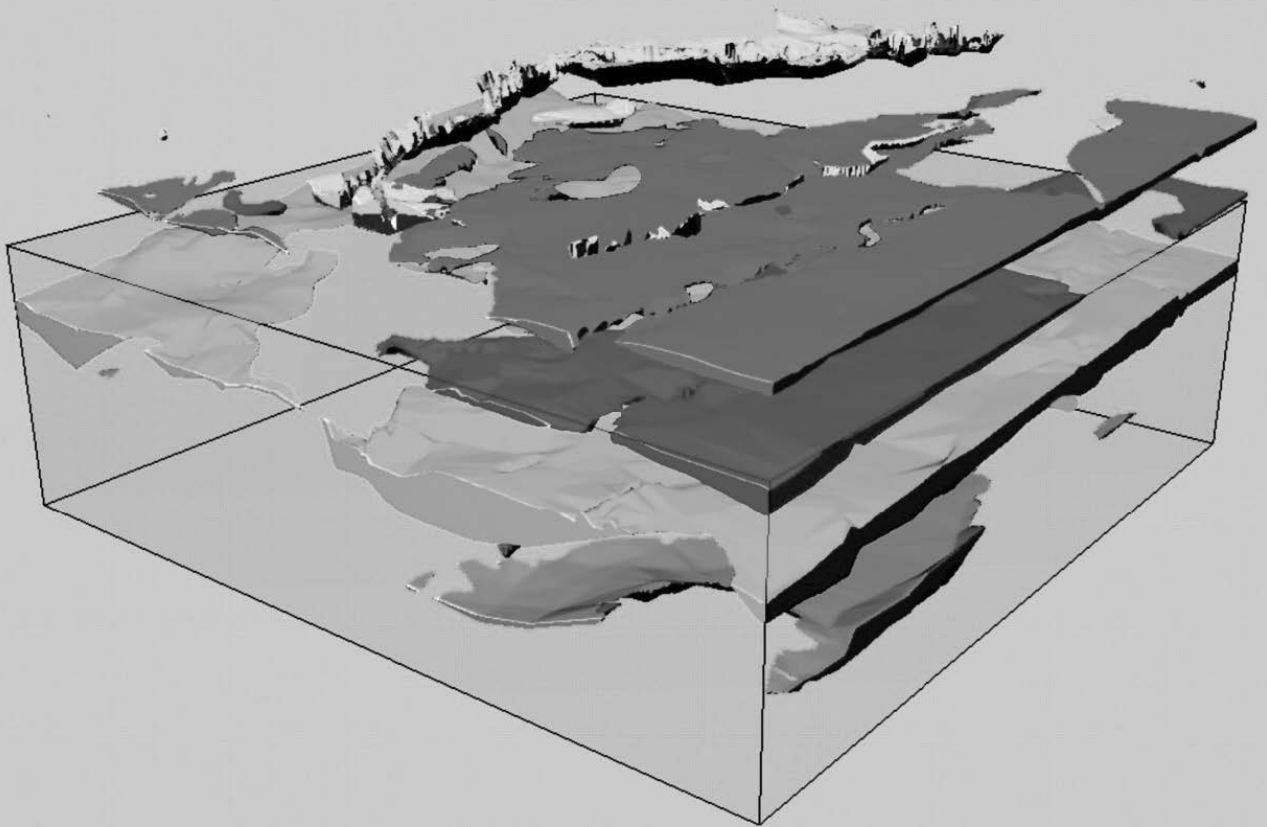
Geotechnical Investigation with off-shore Boreholes and Geotechnical Design of the Foundation Conditions of the expansion of the existing Port and new Fishing Shelter Facilities.

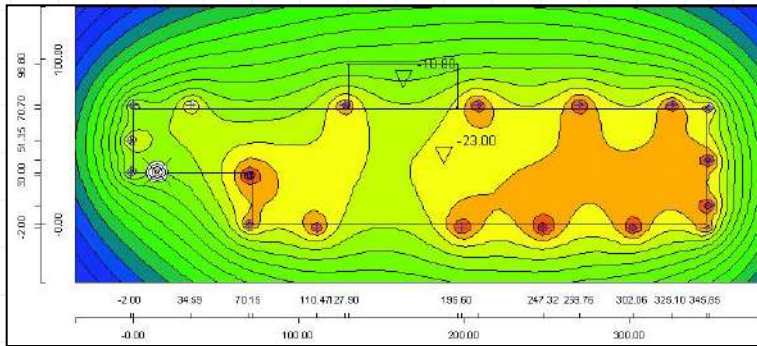




ground water management

Geological - Hydrogeological Studies, 3-D Modeling,
Well Testing and Development, Dewatering Design,
Desalination Systems, Geochemical Analyses, GIS Applications.

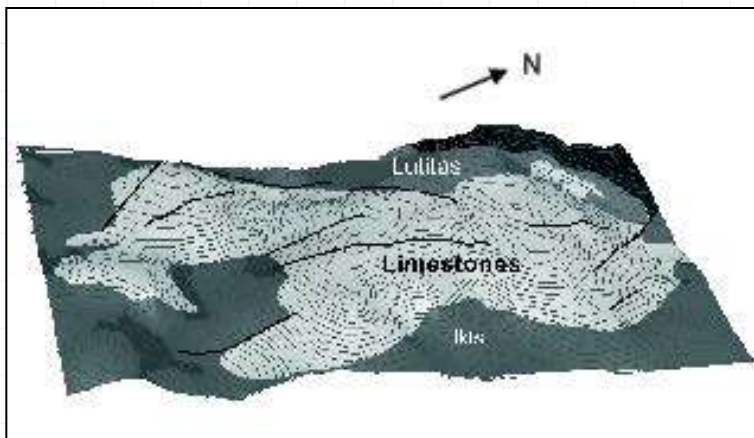




DEWATERING DESIGN OF EDUCATION CITY STATION, DOHA METRO (Pre-Tendering stage)

Client:
SSF Ingenieur S.A.

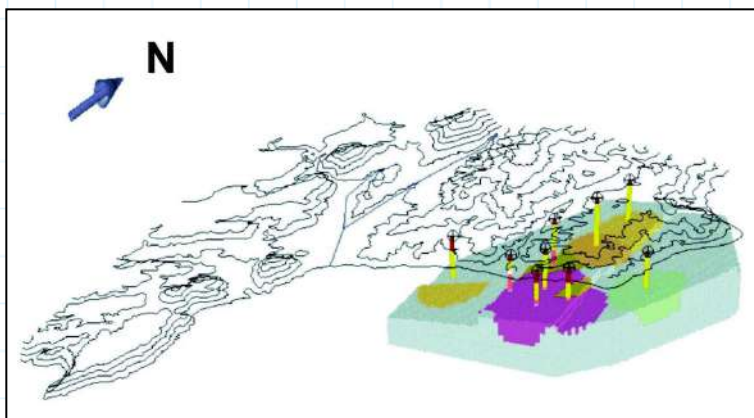
Technical Info:
Assessment of the Geological & Hydrogeological data, Calculations, Modelling & Design of the Dewatering System of the Station.



HYDROGEOLOGICAL STUDY FOR THE PROTECTION OF THE GROUND WATER AQUIFER SYSTEM EL COLORADO AREA, EL SALVADOR

Client:
EL SALVADOR CEMENT INTUSTRY

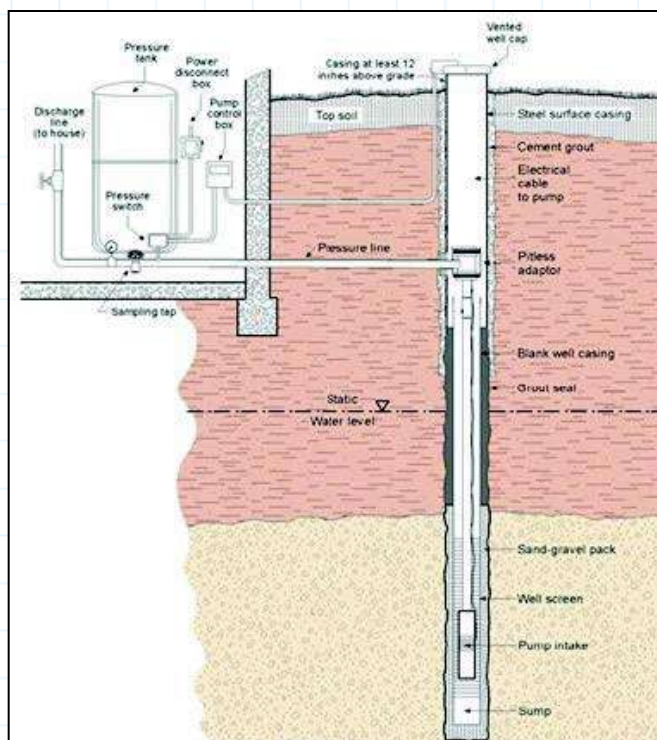
Technical Info:
Geological & Hydrogeological Study, Geochemical Analyses of the Ground Water System, 3-D Modelling.



ARTIFICIAL RECHARGE OF KARSTIC GROUND WATER USING 3-D MODELLING, ENIPEAS RIVER BASIN, THESSALY, GREECE

Client:
THESSALY PREFECTURE

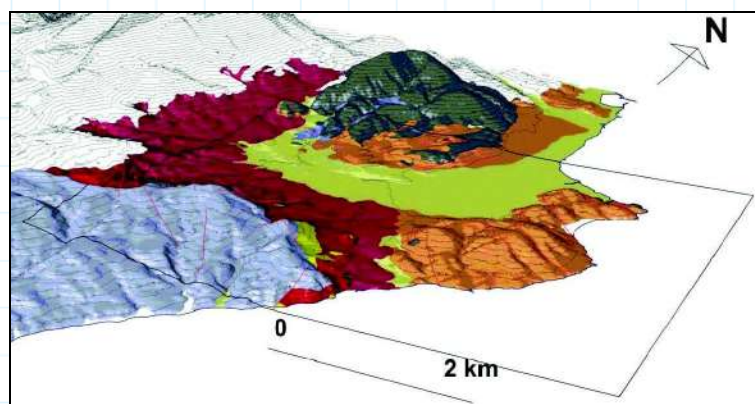
Technical Info:
Geological and Hydrogeological Model, Ground Water Model using 3-D CAD techniques for the delineation of the aquifer geometry.



WELL REHABILITATION AND DEVELOPMENT AT 10 WELL FIELDS, NORTH THESSALY BASIN, GREECE

Client:
THESSALY PREFECTURE

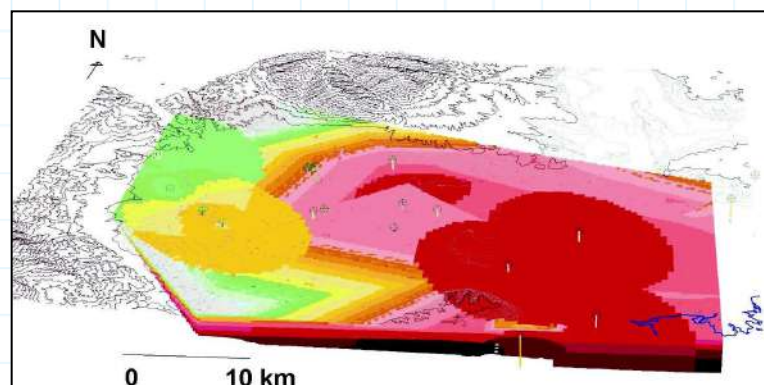
Technical Info:
Data Collection, Field Observation, Pumping Tests, 3-D Ground Water Model for each Well Field, Well Development Studies.



GEOCHEMICAL ANALYSIS MODEL AT THE KAVALA REGION GEOTHERMAL FIELD, MACEDONIA, GREECE

Client:
MACEDONIA PREFECTURE

Technical Info:
Geological Study, Geochemical Analyses, 3-D Modelling of the chemical elements scattering.



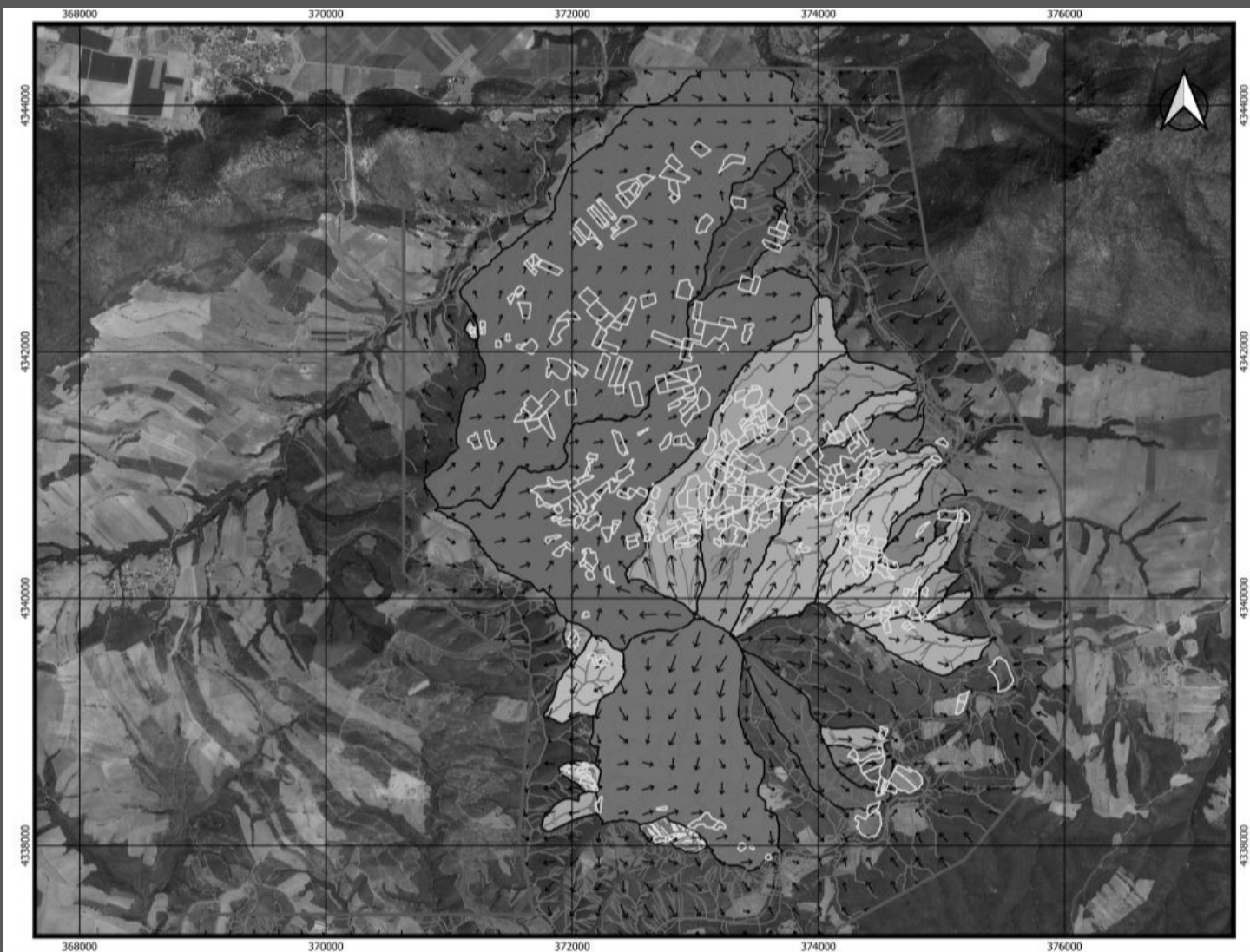
HYDROGEOLOGICAL STUDY THE WATER SUPPLY OF THE INDUSTRIAL ZONE OF PATRAS, GREECE

Client:
HELLENIC BANK FOR THE INDUSTRIAL DEVELOPMENT (ETVA S.A.)

Technical Info:
Geological and Hydrogeological Study, Artificial Recharge Study, Well Exploration, Pumping Tests, 3-D Modelling.

flood risk assessment

More than 15 Flood Risk Assessments in the framework of Hydrological and Hydraulic Designs of various structures.





PV Parks Location



Main stream's flow directions Model

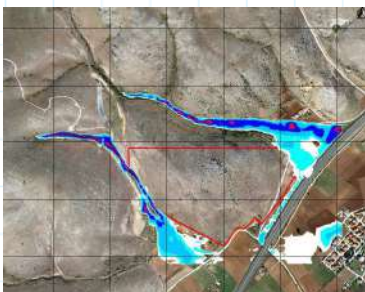
FLOOD RISK ASSESMENT FOR 13 PV PARKS AT KOZANI PREFECTURE, NOTHERN GREECE

Client:

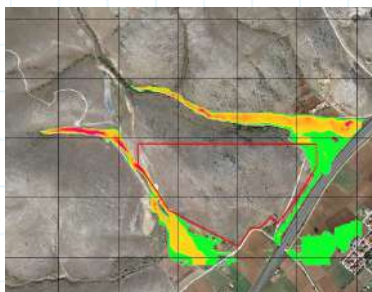
SK PLUS / LIGHTSOURCE BP

Technical Info:

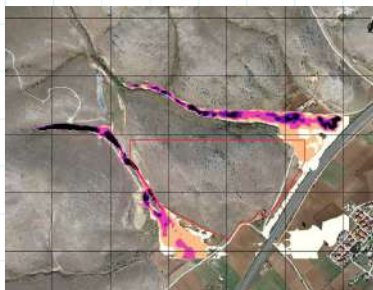
Flood Risk Assessment with Flood Lines Definition, for several Flood Return Periods (10, 20, 50, 100, 200, 500 years), providing Depth, Velocity and Hazard Maps.



Water Depths modelling Results Map



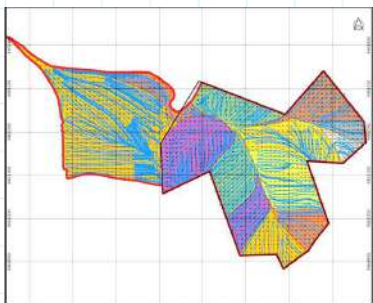
Water Velocities modelling Results Map



Flood Hazard Map



Catchment Delineation



Sub-Catchments division with flow direction arrows Map



Contour Lines for the greater area Map



PV Parks Location



Main stream's flow directions Model

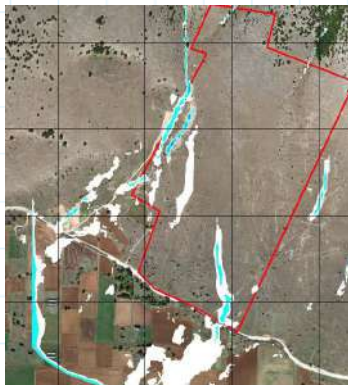
FLOOD RISK ASSESMENT FOR 8 PV PARKS AT KOZANI PREFECTURE, NOTHERN GREECE

Client:

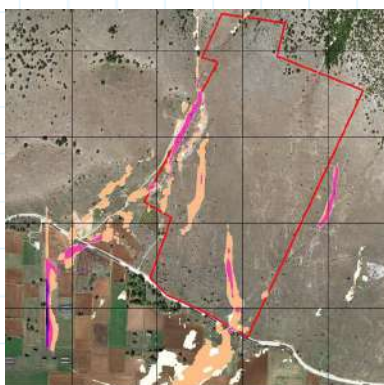
KIEFER/ENEL Green Power

Technical Info:

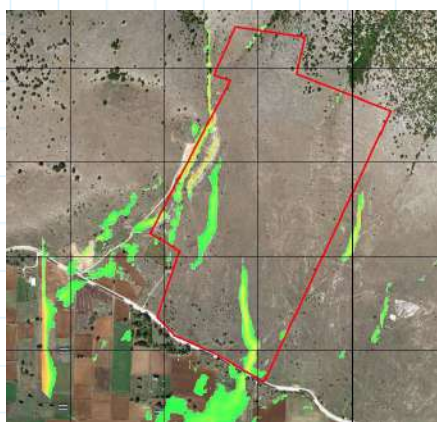
Flood Risk Assessment with Flood Lines Definition, for several Flood Return Periods (10, 20, 50, 100 years), providing Depth, Velocity and Hazard Maps.



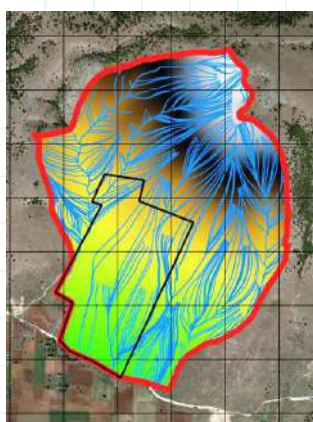
Water Depths modelling Results Map



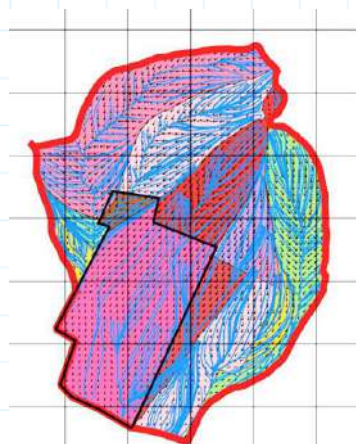
Water Velocities modelling Results Map



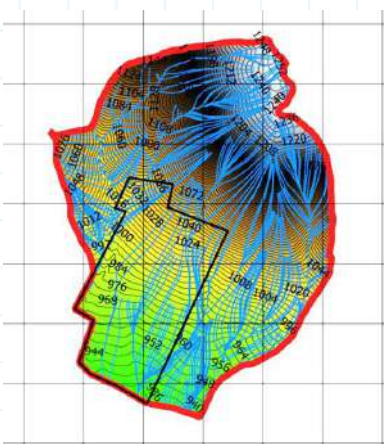
Flood Hazard Map



Catchment Delineation



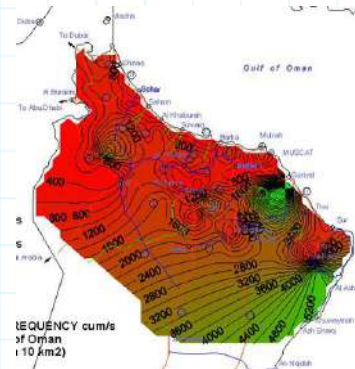
Sub-Catchments division with flow direction arrows Map



Contour Lines for the greater area Map



Location of the Parks



(50 years) Flood Peaks Frequency cum/s, for areas more than 10km2 Northern Oman

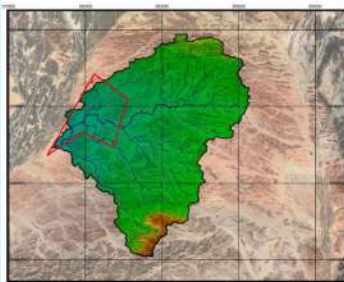
FLOOD RISK ASSESMENT OF PV PARKS Manah Solar I and Manah Solar II, OMAN

Client:

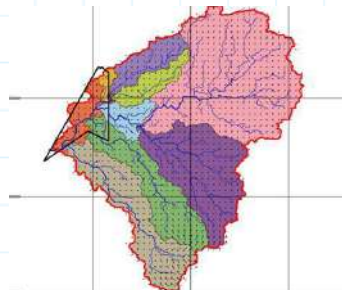
ASD SQUARE/EDF

Technical Info:

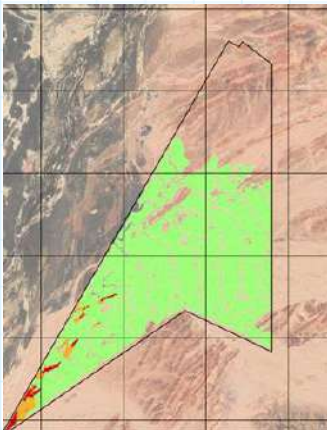
Flood Risk Assessment with Flood Lines Definition, for several Flood Return Periods (10, 20, 50, 100, 200, 500 years), providing Depth, Velocity and Hazard Maps, for two (2) PV Parks of Area 12km² and Power of 1.000MW.



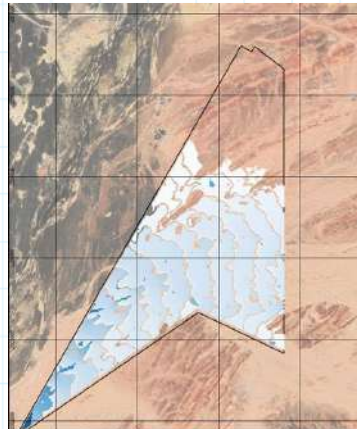
Catchment of wadis coming through



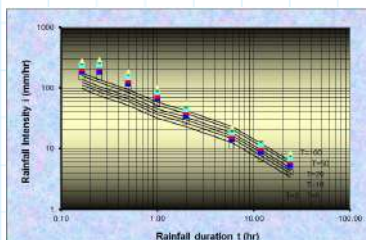
Flow direction arrows for the site area Catchments



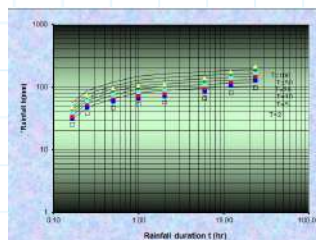
Water Velocities modelling Results Map



Water Depths modelling Results Map



Rainfall Intensity-Duration-Frequency (IDF) Curves



Rainfall Depth-Duration-Frequency (DDF) Curves



mining

designing of mines, survey for possible mines, geological survey, mine mapping, geophysical survey of mines, evaluation and reporting on mines.



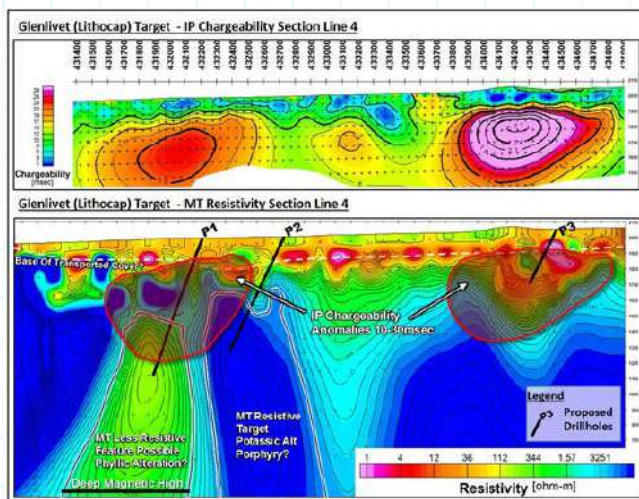
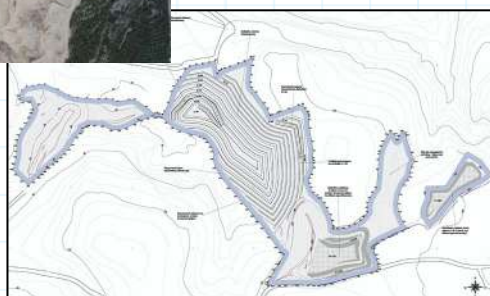


Figure 2: Rubi JV IP/MT Line 4 Glenlivet prospect. November 2014



SURVEY FOR POSSIBLE MINES -GEOPHYSICAL SURVEY

magnetotellurics



WHITE POZZOLANA MINE, MILOS ISLAND, GREECE

Client:

ELLINIKI METALLEYTIKI EPE

Technical Info:

Drone flight above a bentonite mine in Milos Island to produce a DTM (digital terrain model) of the relief and investigation of the obligatory according to EU and Greek Legislation, tree development in open mines.

Calculation of the volumes of the materials between green field and today's situation



"AMYNTEO" MINE, KOZANI, GREECE

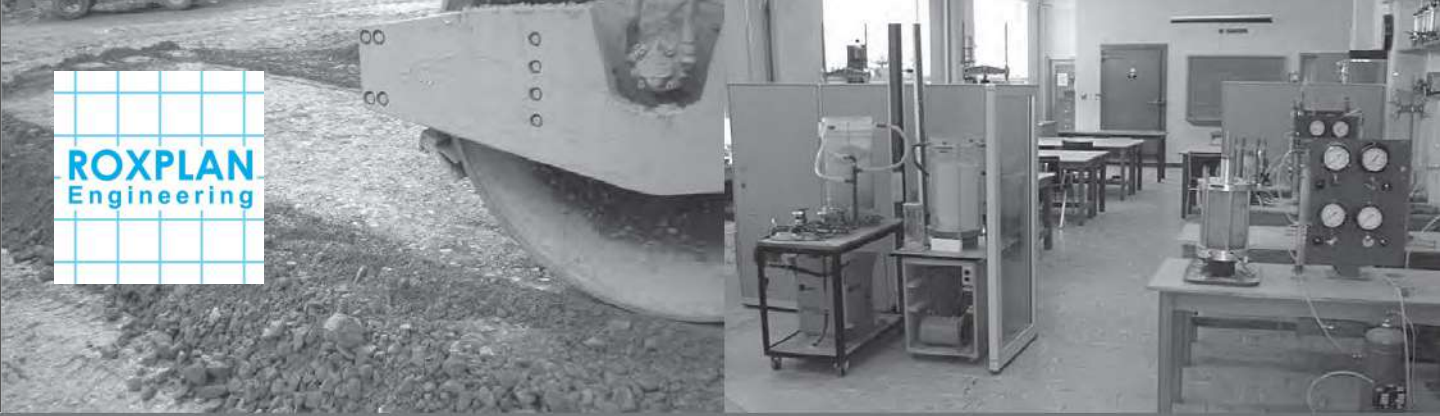
Client:

PUBLIC POWER CORPORATION SA, HELLAS

Technical Info:

Design of protection of slopes against water inflow and design of slope protection.





geotechnical investigations

More than 50,000m of coring boreholes, both on-shore and off-shore with laboratory and in-situ testing, for more than 500 different projects.



geotechnical investigations



On-Shore Boreholes



Off-Shore Boreholes



Wagon-Drilling

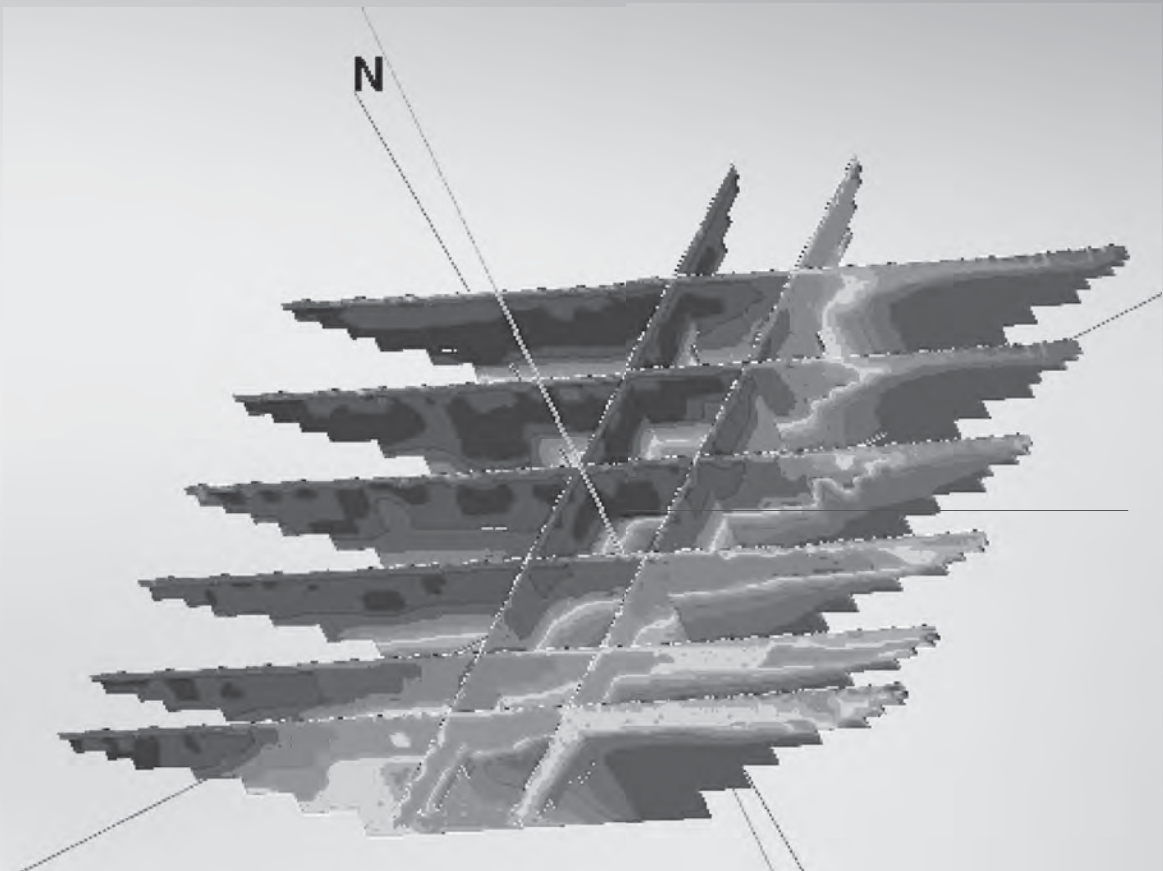
Our company has the capability and experience to execute a wide range of field and laboratory testing / investigations.

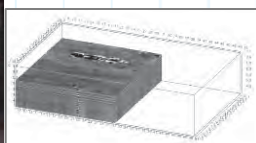
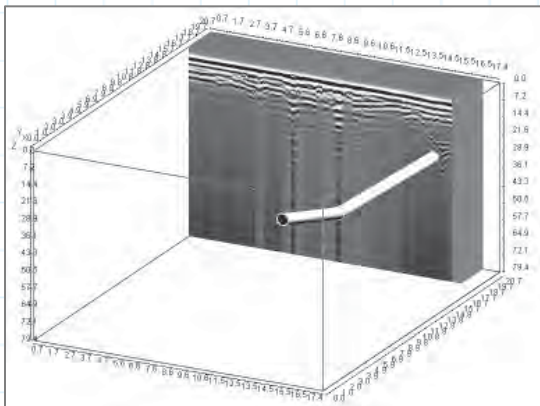
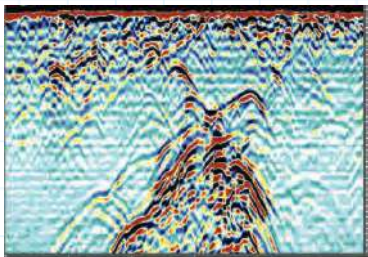
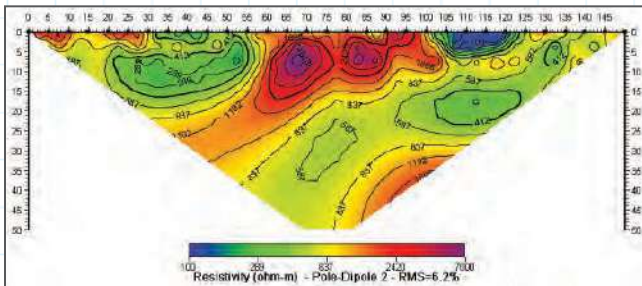
Our experience includes execution of more than 50,000m of coring boreholes, both on-shore and off-shore, for more than 500 different projects, with corresponding laboratory testing and evaluation of their results. For these projects programming and inspection of the works were included in our scope.



geophysical investigations

Karsts - Cavities - Sinkholes - Fracture Zones, Utilities - Buried Structures, Reinforcement - Voids of Concrete, Seismic/Dynamic Properties of Subgrade Materials, Unexploded Ordnances (UXO's), Marine - Hydrographic Services Environmental Applications, Parameters for Grounding Design





KARSTS - CAVITIES - SINKHOLES - GROUND WATER TABLE - FRACTURE ZONES

Project:

"KTENIAS", TRIPOLIS GREATER AREA, PELOPONNESSE, GREECE

Offered Services:

Detection of cavities-karsts, sinkholes and fracture zones with non-destructive geophysical methods

Geophysical Methods:

- Ground Penetrating Radar (GPR)
- Electrical Resistivity Tomography (ERT)

Geophysical Equipment:

- Mala Geoscience GPR (ProEx Control Unit, shielded antennas of 500, 250 MHz and unshielded)
- of 100, 50 & 25 MHz central frequency, XV11 monitor, Trimble RTK GPS)
- Terrameter LS 16 channel resistivity meter, multicore cables, electrodes

Depth Range:

- 0 - 15m (GPR Method)
- 0 - 80m (ERT Method)

THESSALONIKI METRO, GREECE

Project:

THESSALONIKI METRO, GREECE

Offered Services:

Detection of buried structures (water pipes, cables, sewer pipes, ancient remains, etc.), along the Metro Alignment using non-destructive methods

Geophysical Methods:

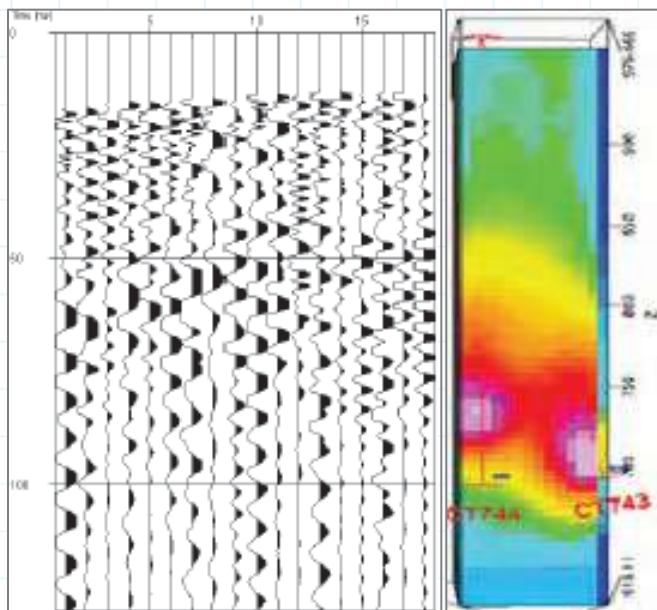
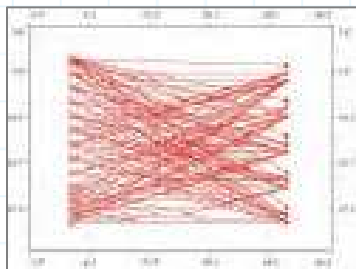
Ground Penetrating Radar (GPR)

Geophysical Equipment:

Mala Geoscience GPR (ProEx Control Unit, shielded antennas of 500, 250 MHz, 1.6 GHz central frequency, XV11 monitor, Trimble RTK GPS)

Depth Range:

0 - 6m



SEISMIC/DYNAMIC PROPERTIES OF SUBGRADE MATERIAL

Project:

DESIGN OF "ASOPOS" EARTH DAM,
GREECE

Offered Services:

Detection of the dynamic elastic parameters of the subgrade materials in the foundation area for the a-seismic design of the dam (80m high)

Geophysical Methods:

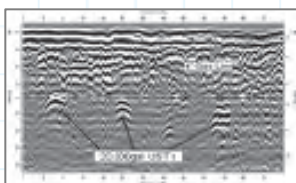
Seismic Tomography (CSL Method)

Geophysical Equipment:

- Digital Seismic recorder with 24 channels of GEOMETRICS
- Company, model SMARTSEIS, with sampling ability of 32 ms.
- Mechanical seismic source, automatic, with applicability within the borehole. Type MH 60 of company VIBROMETRIC OY.
- Wooden beam for the production of S-waves in the multi-offset VSP method.
- Chain of eight (8) tri-axial geophones, with 5 meters spacing between geophones and ability to attach them to the walls of the borehole

Depth Range:

- 0 – 100m



ENVIRONMENTAL APPLICATIONS - GROUNDING DESIGN

Project:

PETROLINA FACILITIES, CYPRUS

Offered Services:

Hazardous waste mapping,
underground storage tanks (UST),
Resistivity definition for Grounding
Design

Geophysical Methods:

- GPR
- ERT

Geophysical Equipment:

- Mala Geoscience GPR
- Terrameter LS 16 channel resistivity meter, multicore cables, electrodes



consulting services

Checking of Design, Expert Evaluation, Value Engineering, Tender Documents, Risk Assessment, Independent Engineer Services.

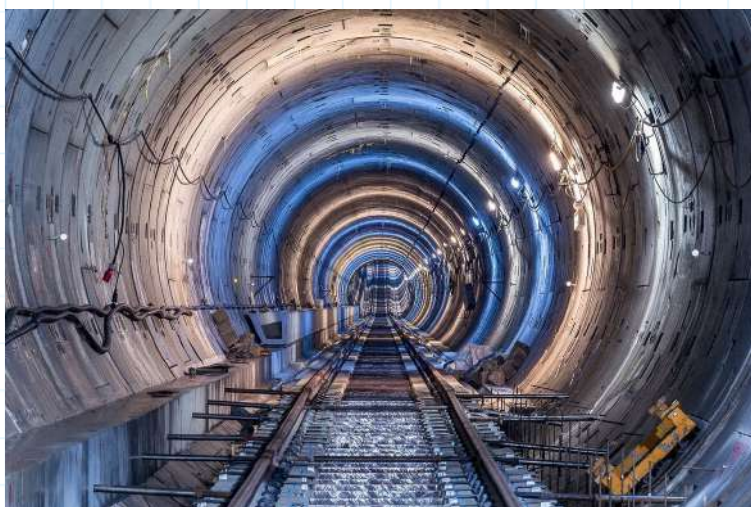




**ATHENS - SALONICA HIGHWAY
SOUTH KATERINI BRIDGE /
INTERCHANGE, GREECE**

Client:
MINISTRY OF PUBLIC WORKS

Technical Info:
Consulting Services and Design for
High Embankments on soft ground,
Monitoring, etc.



ATHENS METRO

Client:
ATTIKO METRO S.A.

Technical Info:
Design review of the Detail Design of Lines 1
and 2 of the Athens Metro (25km lines,
21 stations, depot, etc.)



DOHA METRO, QATAR

Client:
DEUTSCHE BAHN INTERNATIONAL / QATAR
RAIL

Technical Info:
Preparation of Tender Design and
Documents for the 4 lines Doha Metro,
(76km long).



ATTIKI ODOS, ATHENS, GREECE

Client:

ATTIKI ODOS S.A.

Technical Info:

Design Review of Detail Design of the 70km Long highway.



RESERVOIRS:

- Agios Kirikos, Ikaria Island, Greece
- Eggares - Naxos Island, Greece
- Greenhouse Reservoir, Drama, Greece
- Kato Pitsa, Korinthia, Greece
- Paravola, Trichonida, Aetoloakarnania, Greece
- Xerias, Almyros, Greece
- Mithimna, Lesvos Island, Greece

DAMS:

- Eressos, Lesvos Island, Greece
- Koris Gefyri, Chios Island, Greece
- Kritinia, Rhodes Island, Greece
- Ferekampas, Skyros Island, Greece
- Asopos, Korinthia, Greece
- Chalavrianos Xeimaros, Crete Island, Greece

Client:

MINISTRY OF AGRICULTURE

Technical Info:

Design Review, Supervision and Technical Consulting during construction of Dams / Reservoirs.



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