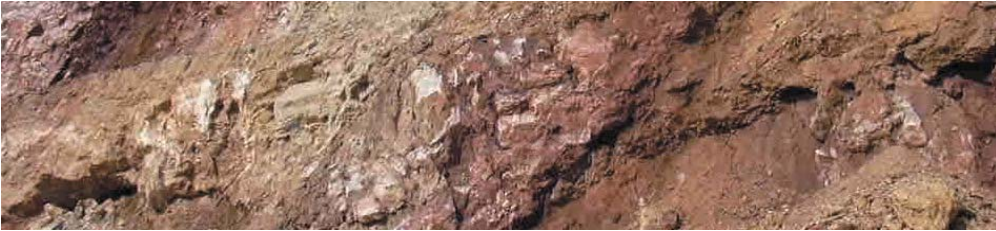


GEOMELETI



GEOTECHNICAL ENGINEERS & GEOLOGISTS





GEOTECHNICAL INVESTIGATION & DESIGN - CONSULTING SERVICES

44, Michalakopoulou str., 115 28 Athens, Greece

Tel: +30 210 72 52 085, Fax: +30 210 72 51 219

e-mail: geomeleti@geomeleti.gr, www.geomeleti.gr



COMPANY PROFILE

GENERAL

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

GEOMELETI, is staffed with experienced Engineers and Engineering Geologists and managed by P. Laskaratos, V. Sotiropoulos and T. Katsoularis, having extensive experience respectively, among others, in all aspects of Geotechnical / Infrastructure Engineering (Railway Projects, Hydraulic works, Road and Bridge design, Building foundation design, Tunnels, Slope design etc).

The Company owns modern equipment including drilling-rigs, in situ and laboratory testing devices and with the use of specialized software, can give reliable, fast and economical design solutions to all Geotechnical Problems.

OUR CLIENTS - COLLABORATIONS

GEOMELETI provides design, supervision and consulting services to the main organizations, managing infrastructure projects in Greece and abroad, such as:

- Greek Ministry of Public Works and Transportation,
- Greek Railways and Metro Authorities,
- Greek Highway Authorities,
- Infrastructure, Building and Industrial Contractors (Hochtief, AKTOR, GEK, TERNA, J&P, ABENGOA, etc)

Our collaborations also include major international engineering firms, such as, W.S. Atkins (UK), Faber-Maunsell (UK - USA), Hochtief (Germany), 3P (Austria), SSF and ISP (Germany), DBI International (Germany, Qatar), etc.

MANAGEMENT

Petros Laskaratos:

Geotechnical - Civil Engineer M.Sc, having more than 30 years of working experience in Geotechnical Engineering Projects, offered Consulting Services to the owners of the major highway authorities (Attiki Odos, Athens - Thessaloniki Highway, Egnatia Odos) in Greece, the Athens Metro and having an extensive experience in design of all types of infrastructure engineering projects, including building foundations, ground improvement, tunnels, bridges, dams, motorways, etc.

Vassilis Sotiropoulos:

Geotechnical - Chemical Engineer having more than 45 years of experience in field and laboratory testing, quality control, application of geosynthetics and geotechnical design of infrastructure engineering projects including dams, embankments, pavements, landfills, etc.

Tassos Katsoularis:

Engineering Geologists, having more than 20 years of working experience in investigations, quality control and geological and geotechnical design for all types of infrastructure engineering projects, including buildings, tunnels, open-cuts, dams, bridges, motorways, railway lines, etc.

- Programming of Investigations
- Inspection of Geotechnical Works
- Interpretation of Investigation Results
- Sampling Boreholes: On-shore / off-shore
- Trial Pits
- Special Sampling Works
- In situ permeability Testing
- Standard Penetration Tests (S.P.T.)
- Plate Loading Testing
- Wagon Drillings
- Cone Penetrometer Testing
- Pressuremeter Testing
- Trial Embankments
- Borrow Areas Investigations
- Geophysical Investigations
- Physical Properties Laboratory Testing
- Engineering Properties Laboratory Testing
- Chemical Properties Laboratory Testing

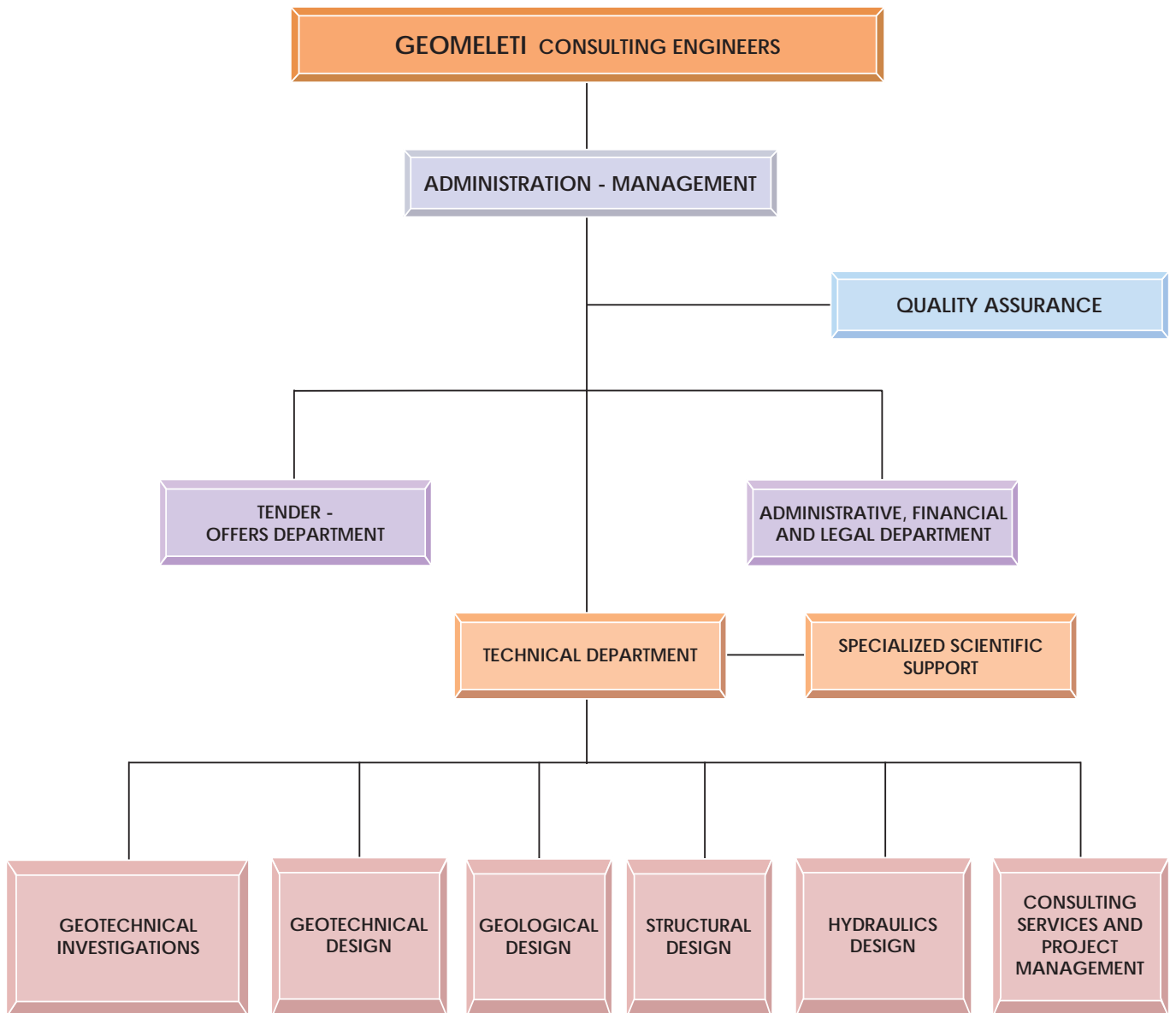
GEOTECHNICAL INVESTIGATIONS

- Shallow - Deep Foundations
- Ground Improvement / Treatment
- Underpinning
- Dams - Hydraulic Projects
- Borrow Areas - Damping Sites
- Embankments
- Excavations
- Slopes and Landslides
- Geosynthetics (Design and Application)
- Retaining Structures
- Road / Airfield Pavements
- Tunnels - Underground structures
- Water Filtration and Drainage
- Port Structures / Offshore Geotechnics
- Instrumentation
- Landfills
- Bridges
- Industrial / Residential Buildings
- Ground Water Management

GEOTECHNICAL ENGINEERING DESIGN

- Checking of Design
- Expert Evaluations
- Inspection of Geotechnical Works
- Material Quality Control
- Observation / Interpretation of Instruments
- Modification of Design During Construction
- Preparation of Tender Documents
- Evaluation of Contractors' Offers

GEOTECHNICAL CONSULTING SERVICES



SELECTED PROJECTS

EXPERIENCE IN

BUILDINGS



Schools and University Complexes, Conference Complexes,
Bank Complexes, Municipal Market Buildings, Plants,
Railway Stations, Deep Retaining Structures and
a large number of private Complexes and Shopping Centers.



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

Client:
 REAL ESTATE DEVELOPMENT
 KOMOTINI S.A.

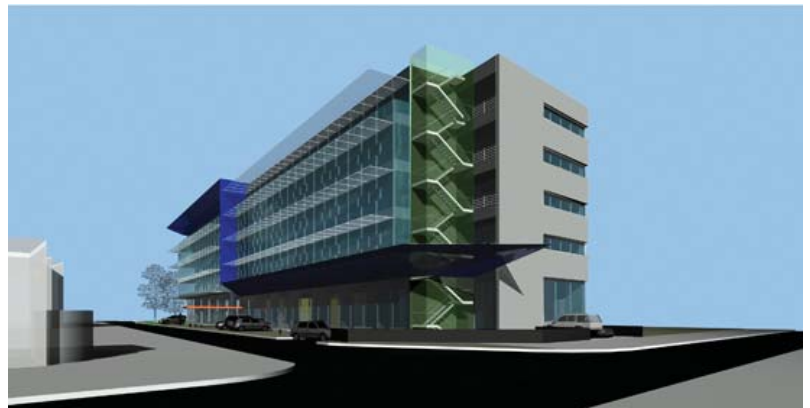
Geotechnical Investigation with
 Coring Boreholes and Trial Pits
 and Geotechnical Design of
 Buildings of a Shopping Mall
 at Komotini City.
 It is a Complex of Buildings of
 10.000m² ground coverage with
 two basements and five floors at an
 environment of high ground water
 level.



**NEW OFFICE BUILDINGS
 AT PEIRAIUS STR.,
 ATHENS**

Client:
 J & P DEVELOPMENT

Geotechnical Investigation and
 Geotechnical Design for a 5 Floor
 Office Building with 2 basements, of
 9.000m² ground coverage in total.



**NATIONAL LIBRARY,
 PRAGUE,
 CZECH REPUBLIC**

Client:
 J & P DEVELOPMENT

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



NORTH-WEST

INDUSTRIAL COMPLEX OF LARKO S.A., GREECE

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

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.

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.



RESIDENTIAL COMPLEX OF BUILDINGS, CRAKOW, POLAND

Client:
W. S. ATKINS

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.



EXPERIENCE IN

RETAINING STRUCTURES - UNDERPINNING



Investigation, Design and Consulting Services during Construction.



RETAINING STRUCTURES - UNDERPINNING

**"KARELIAS INDUSTRY",
KALAMATA CITY AREA,
PELOPONNESE, GREECE**

Client:
KARELIAS S.A.

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

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



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

Client:
KAROYZOS CONSTRUCTION S.A.

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.

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



EXPERIENCE IN

ROAD DESIGN



Highways and provincial roads of approximately 320 km in length, with 80 high open-cuts, 60 embankments (including Reinforced by Geosynthetic Materials Embankments), Pavement Design, etc.



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

Client:
EGNATIA ODOS S.A.

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



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

Client:
OLYMPIA JV (HOCHTIEF-AKTOR J/V)

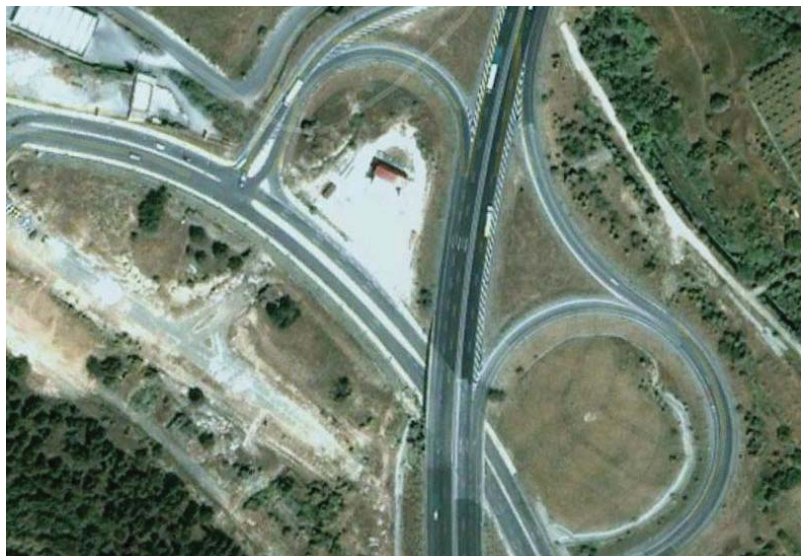
Geotechnical Investigations with
4000m of Boreholes for the needs
of the Geotechnical Design of
21 Main Line Bridges and Overbridges
($L=25-120m$), Cut & Cover ($L=160m$),
Lane Cover ($L=110m$), 40 Large Box
Culverts, 30 High Embankments,
17 Open Cuts and 62 Retaining Walls.



"VERIA CITY" JUNCTION SECTION 5.3. EGNATIA ODOS, GREECE

Client:
EGNATIA ODOS S.A.

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

Geotechnical Investigations 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.



EXPERIENCE IN

BRIDGES



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



BRIDGES

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

Client:
EGNATIA ODOS S.A.

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.

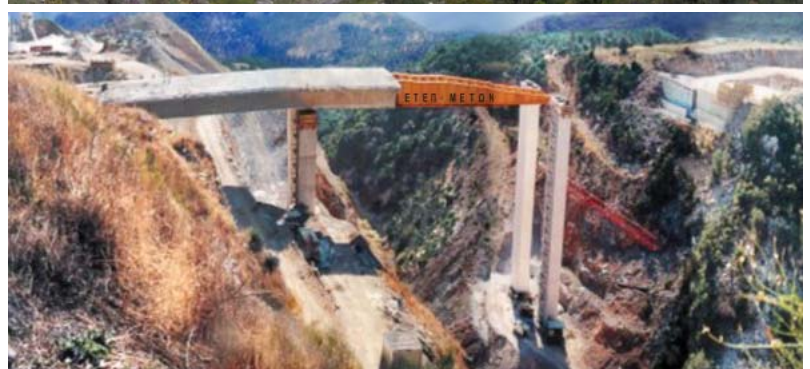
Final-Stage Geotechnical Design of the Bridge crossing Strimonas River ($L_{total}=475m$) with 13 Spans ($L=42-43m$). Ground improvement of the loose foundation soil with vibro-replacement method.



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

Client:
MINISTRY OF PUBLIC WORKS /
METON-ETEP JV

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.

Inspection and Interpretation of Geotechnical Investigations, Final Stage Geotechnical Design of the Bridge Branches 1A ($L_{1A}=531m$) and 1D ($L_{1D}=636m$). 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.

Geotechnical Investigation, Geotechnical Design of a Valleybridge. Special design for filling Karstic Voids by Grouting Techniques.



EXPERIENCE IN

UNDERGROUND STRUCTURES



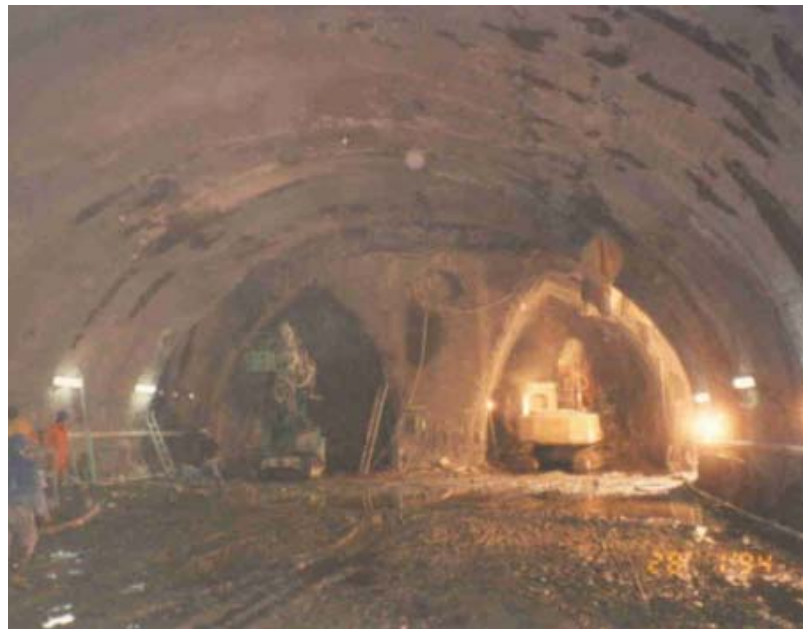
Railway/Road Tunnels, Cut and Covers and Large Conduits.



ATHENS METRO

Client:
ATTIKO METRO S.A.

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).



UNDERGROUND STRUCTURES

NEW HIGH SPEED RAILWAY LINE ATHENS - KORINTHOS - PATRAS, "AIGIO" AREA TUNNEL PELOPONNESE, GREECE

Client:
ERGOSE S.A. / WS ATKINS S.A.

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).



NORTH PELOPONNESE OLYMPIA ODOS MOTORWAY GREECE

Client:
HOCHTIEF-AKTOR J/V

Geotechnical Investigation
with Coring Boreholes and
Geotechnical Design of
Cut & Cover (L=160m)
at Ch. 29 + 900.



DOHA METRO, QATAR

Client:
DEUTSCHE BAHN INTERNATIONAL /
QATAR RAIL

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



EXPERIENCE IN

RAILWAY PROJECTS



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



RAILWAY PROJECTS

RECONSTRUCTION OF AT GRADE METRO RAILWAY LINE, ATHENS

Client:
ISAP S.A.

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.

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



EXPERIENCE IN

HYDRAULIC WORKS

DAMS, RESERVOIRS, etc.

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



**"EGARES" RESERVOIR,
NAXOS ISLAND, GREECE**

Client:
MINISTRY OF AGRICULTURE

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

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

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

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

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

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



EXPERIENCE IN

AIRPORTS, PORTS/ OFF-SHORE STRUCTURES



2 Airports, 15 Port Structures and Participation in the Design of 2 Oil Platforms.



AIRPORTS, PORT/OFF-SHORE STRUCTURES

IKARIA ISLAND AIRPORT, GREECE

Client:
MINISTRY OF TRANSPORTATION

Geotechnical Investigation with Coring Boreholes and Geotechnical Design of new airfield pavement, extension of the existing and design of the new open cuts of the airport area.



"ARISTOTELIS" KASTORIA AIRPORT, MACEDONIA PREFECTURE, GREECE

Client:
MINISTRY OF TRANSPORTATION

Geotechnical Investigation with Coring Boreholes, Trial Pits and Coring Sampling of the existing pavement, as well as Geotechnical Design of the new airport pavement and extension of the existing one.



IMPROVEMENT AND EXTENSION OF EXISTING HARBOR FACILITIES SIFNOS ISLAND, GREECE

Client:
KYKLADES PREFECTURE

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

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



EXPERIENCE IN

RENEWABLE ENERGY PROJECTS



Wind Farms, Solar Power Plants, Hydropower Stations,
Photovoltaic Parks.



**WIND FARM AT
"VOSKERO" AREA,
HERAKLIO PREFECTURE,
CRETE ISLAND, GREECE**

Client:
DOMIKI KRITIS S.A.

Geotechnical Investigation and
Geotechnical Foundation Design
for a wind farm consisting of 7 Wind
Turbines, (50m high).



**"AG. IOANNIS" WIND FARM,
LASITHI AREA,
CRETE ISLAND, GREECE**

Client:
PLASTIKA KRITIS S.A.

Geotechnical Investigation and
Geotechnical Foundation Design
for a wind farm consisting of 9 Wind
Turbines, (47m high).



RENEWABLE ENERGY PROJECTS

17MW WIND FARM OF SIDIROKASTRO AREA, MACEDONIA PREFECTURE, GREECE

Client:
AIOLIKI SIDIROKASTROU S.A.

Geotechnical Investigation and Geotechnical Foundation Design for a wind farm consisting of 20 Wind Turbines, (55m high).



WIND FARM AT MARMARI AREA, EVIA ISLAND, GREECE

Client:
IBY ITA S.A.

Geotechnical Investigation and Geotechnical Foundation Design for a wind farm consisting of 13 Wind Turbines, (35-50m high).



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

Client:
ABENGOA SOLAR

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



EXPERIENCE IN

GEOSYNTHETIC APPLICATIONS



Design of various structures incorporating all modern-technology geosynthetic materials (geogrids, geotextiles, geomembranes, etc).



GEOSYNTHETIC APPLICATIONS

CONSTRUCTION OF RESERVOIR IN GREENHOUSE INSTALLATION AT DRAMA CITY AREA, THRACE PREFECTURE, GREECE

Client:
LINKCHART HELLAS S.A.

Geotechnical Design, Inspection
and Consulting Services during
construction of the reservoir required
for the 100.000m² Greenhouse
with special geotextiles and
geomembranes.



REINFORCED EMBANKMENT AT CH. 247+880 OF THE NEW ATHENS - THESSALONIKI MOTORWAY, THESSALY, GREECE

Client:
MINISTRY OF PUBLIC WORKS /
THESSALIKI S.A.

Geotechnical Design and Dimensioning of a reinforced embankment (length=150m, height=15m) with geogrids.



RESTORATION OF SXISTOS LANDFILL AREA, GREATER ATHENS AREA

Client:
MINISTRY OF PUBLIC WORKS /
PRISMA DOMI S.A.

Geotechnical Design and Dimensioning of the protection measures at the western slope area of the landfill by special geotextiles, geomembranes and geogrids in order to restore the landfill.



IKARIA ISLAND RESERVOIR GREECE

Client:
MINISTRY OF AGRICULTURE

Consulting Services during the construction of Ikaria reservoir, including application of geomembrane/geotextile waterproofing system. Volume of the reservoir is 150.000m³.

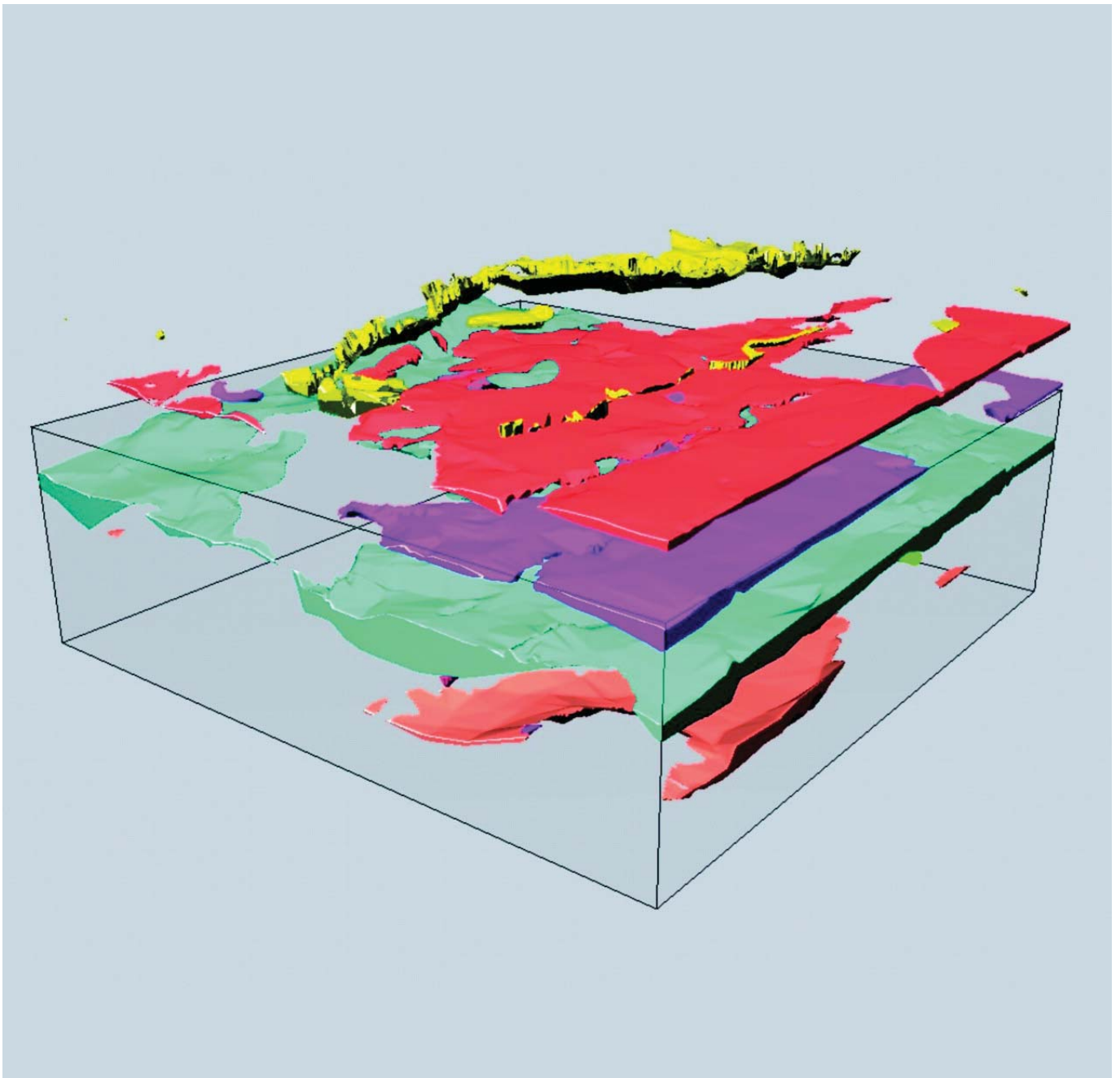


EXPERIENCE IN

GROUND WATER MANAGEMENT



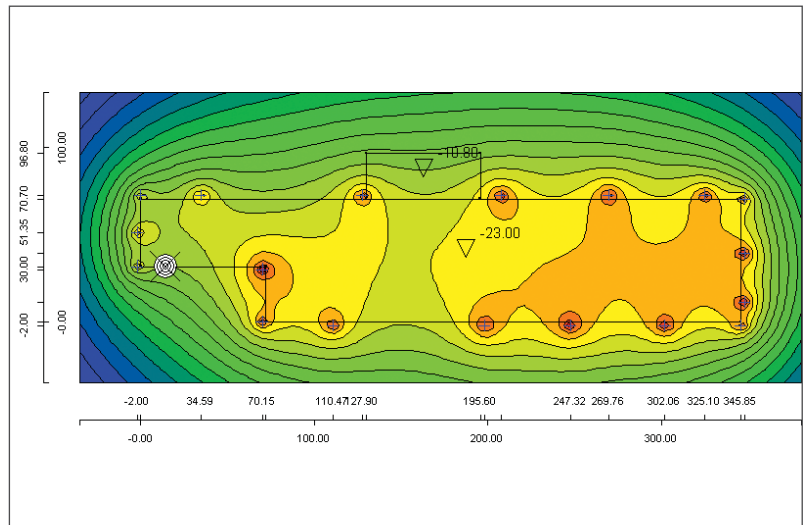
Geological - Hydrogeological Studies, 3-D Modeling,
Well Testing and Development, Dewatering Design,
Desalination Systems, Geochemical Analyses, GIS Applications.



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

Client:
SSF Ingenieure S.A.

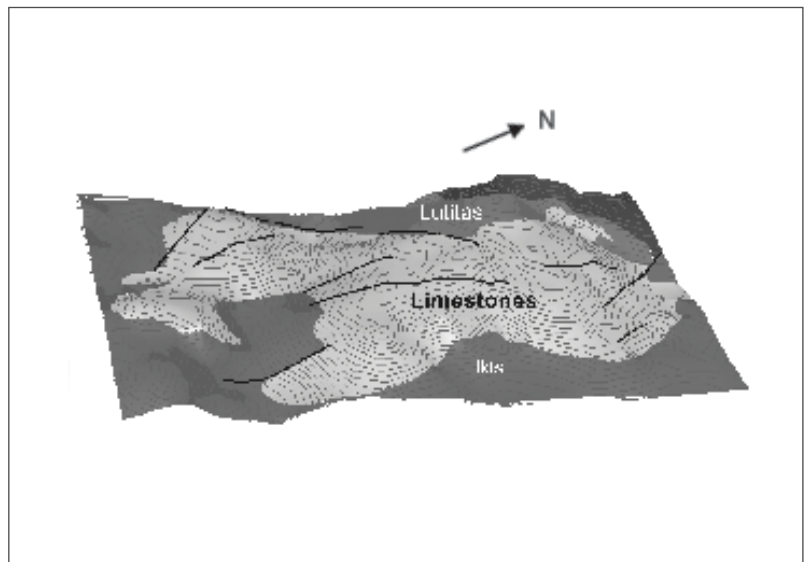
Assessment of the Geological & Hydrogeological data, Calculations, Modelling & Design of the Dewatering System of the Station.



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

Client:
EL SALVADOR CEMENT INTUSTRY

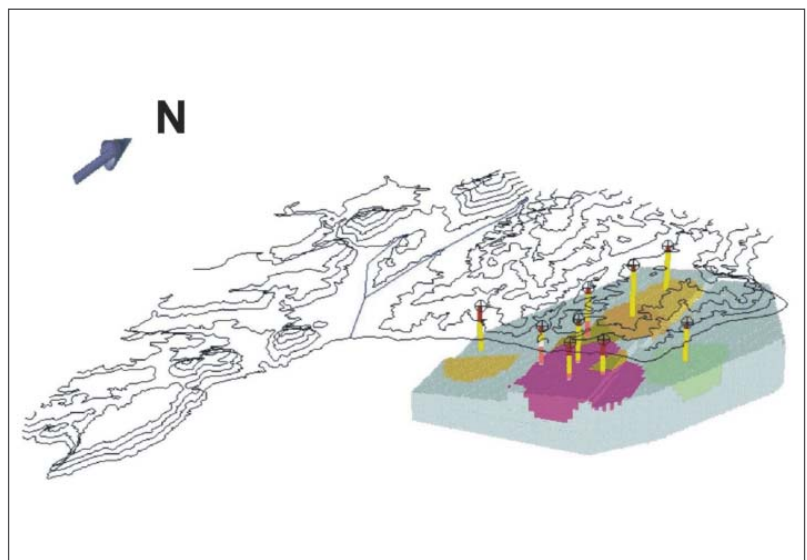
Geological & Hydrogeological Study, Geochemical Analyses of the Ground Water System, 3-D Modelling.



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

Client:
THESSALY PREFECTURE

Geological & Hydrogeological Model, Ground Water Model using 3-D CAD techniques for the delineation of the aquifer geometry.

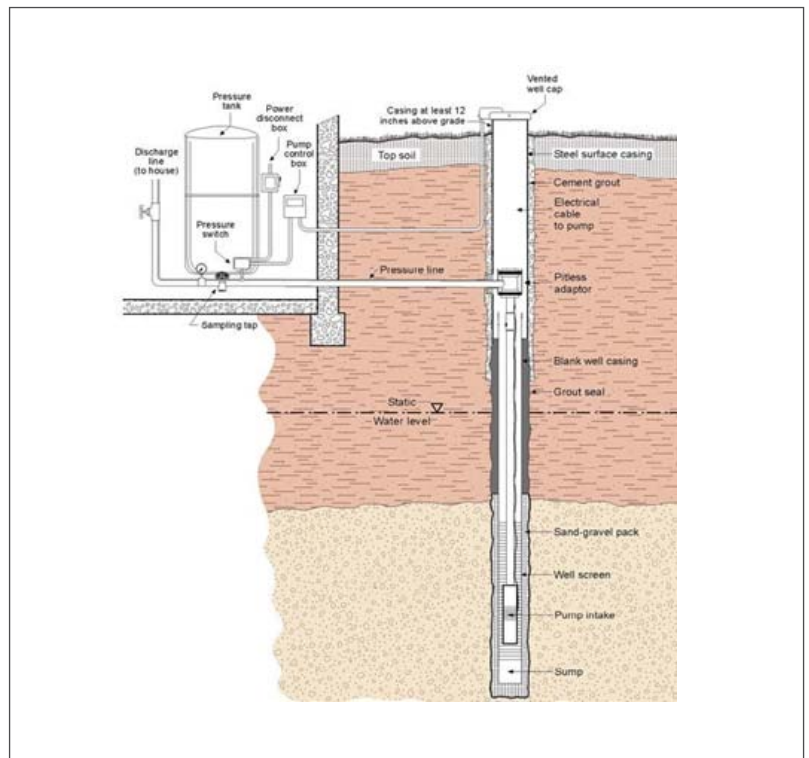


GROUND WATER MANAGEMENT

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

Client:
THESSALY PREFECTURE

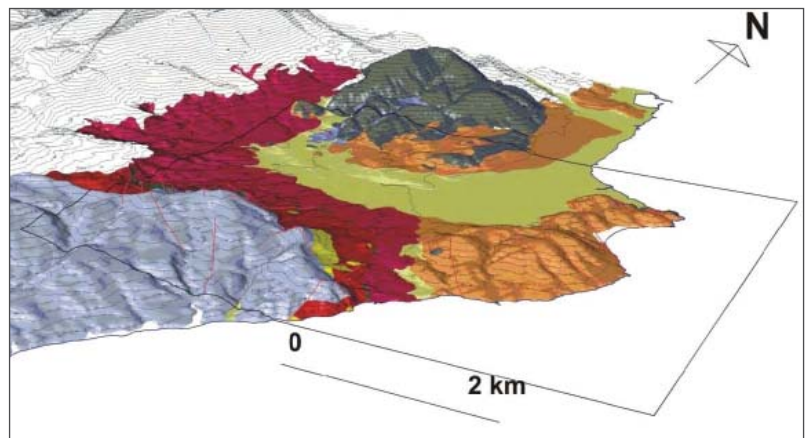
Data Collection, Field Observation, Pumping Tests, 3-D Ground Water Model for each Well Field, Well Development Studies.



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

Client:
MACEDONIA PREFECTURE

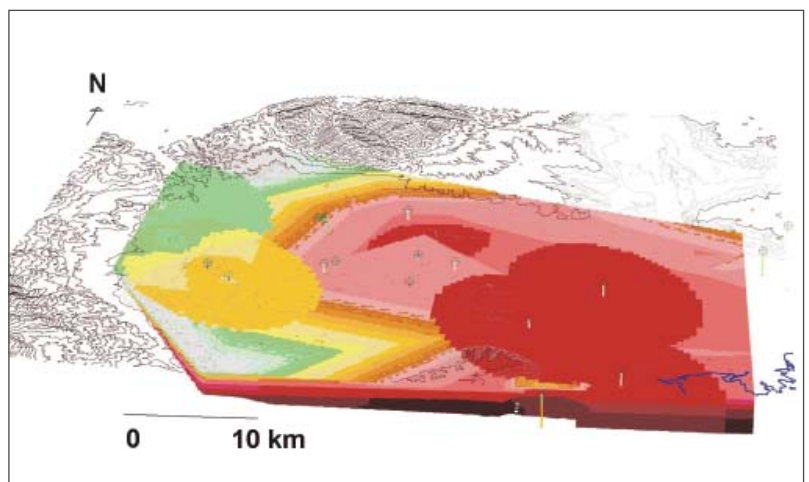
Geological Study, Geochemical Analyses, 3-D Modelling of the chemical elements scattering.



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

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

Geological & Hydrogeological Study, Artificial Recharge Study, Well Exploration, Pumping Tests, 3-D Modelling.

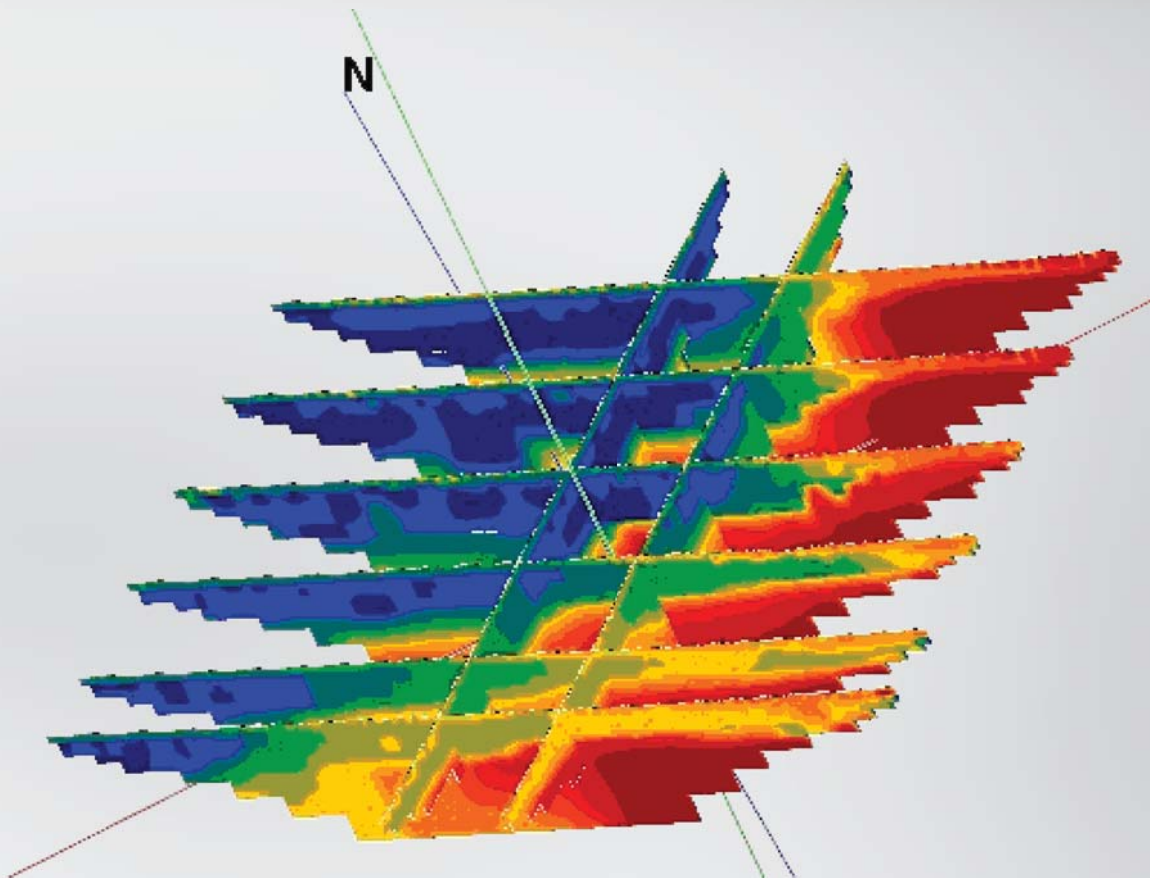


EXPERIENCE IN

G E O P H Y S I C A L I N V E S T I G A T I O N S



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



GEOPHYSICAL INVESTIGATIONS

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

Project:
"KTENIAS", TRIPOLIS GREATER AREA,
PELOPONNESSE, GREECE

Scope:

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

Geophysical Methods:

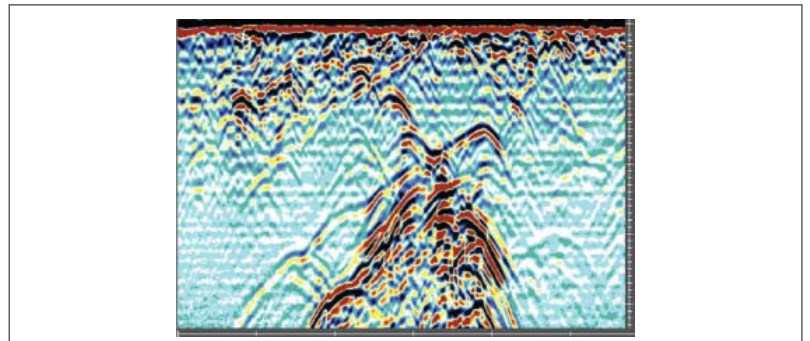
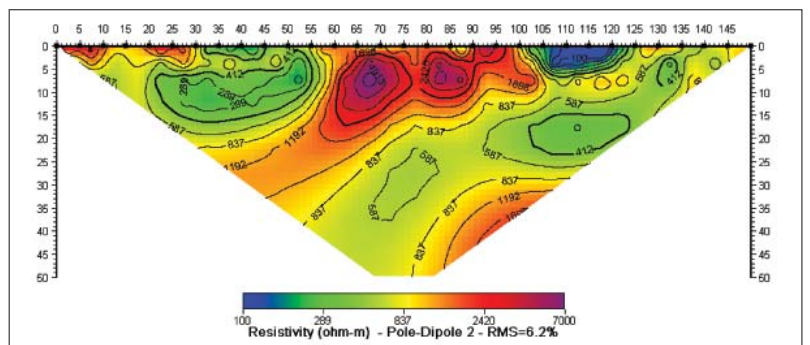
- Ground Penetrating Radar (GPR)
- Electrical Resistivity Tomography (ERT)

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

Scope:

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

Geophysical Methods:

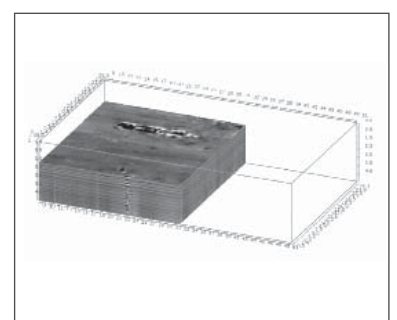
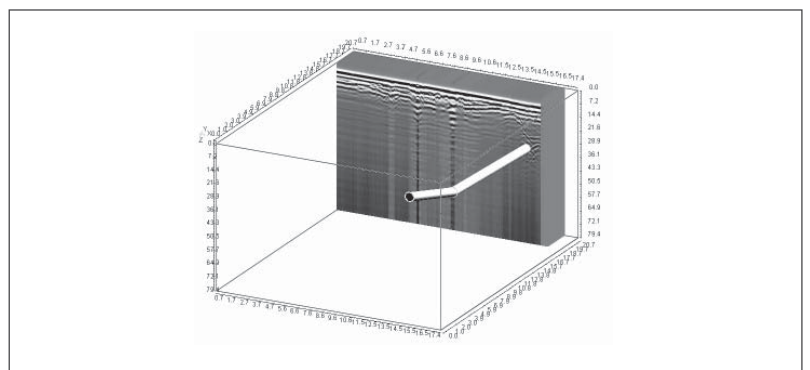
- Ground Penetrating Radar (GPR)

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

Scope:

- 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:

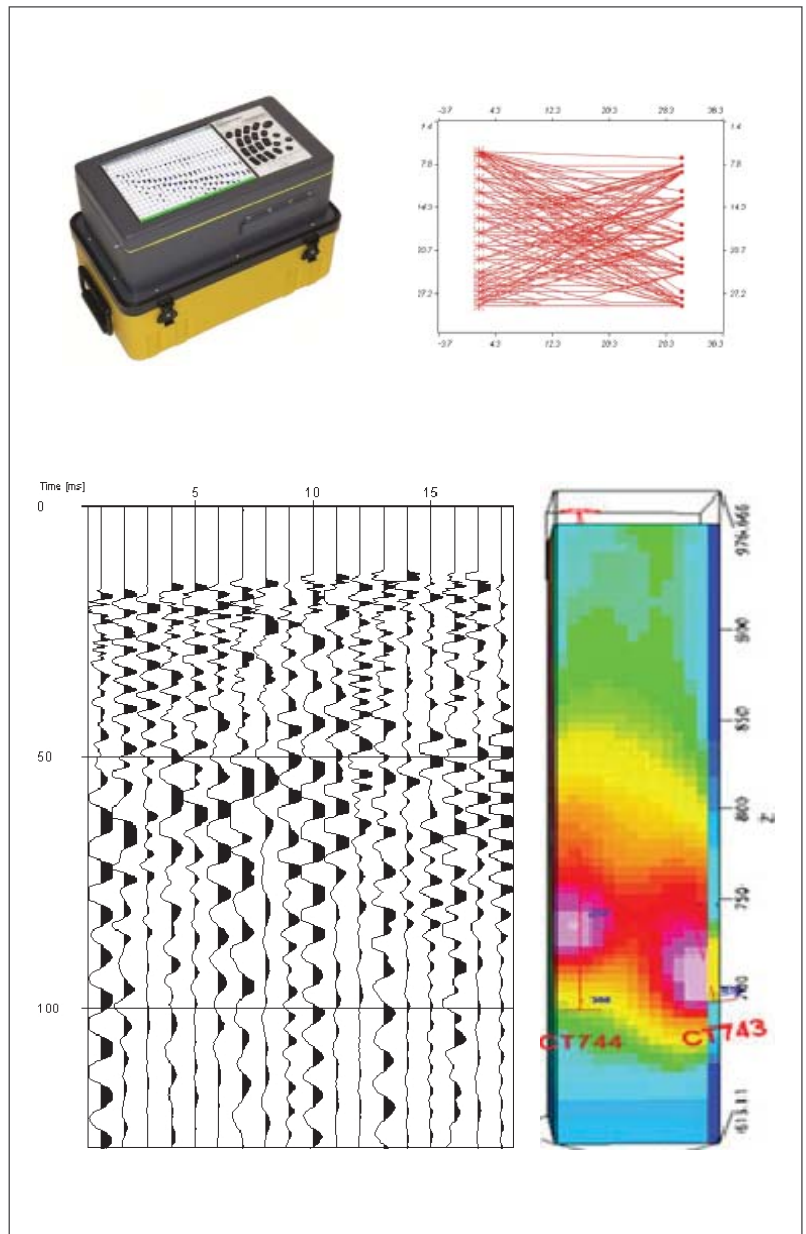
- Seismic Tomography (CSL Method)

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.
- Control Box for controlling the seismic source. Control Box for controlling the geophones. Laptop to control the data quality and their preliminary processing.

Depth Range:

- 0 - 100m



ENVIRONMENTAL APPLICATIONS - GROUNDING DESIGN

Project:
PETROLINA FACILITIES, CYPRUS

Scope:

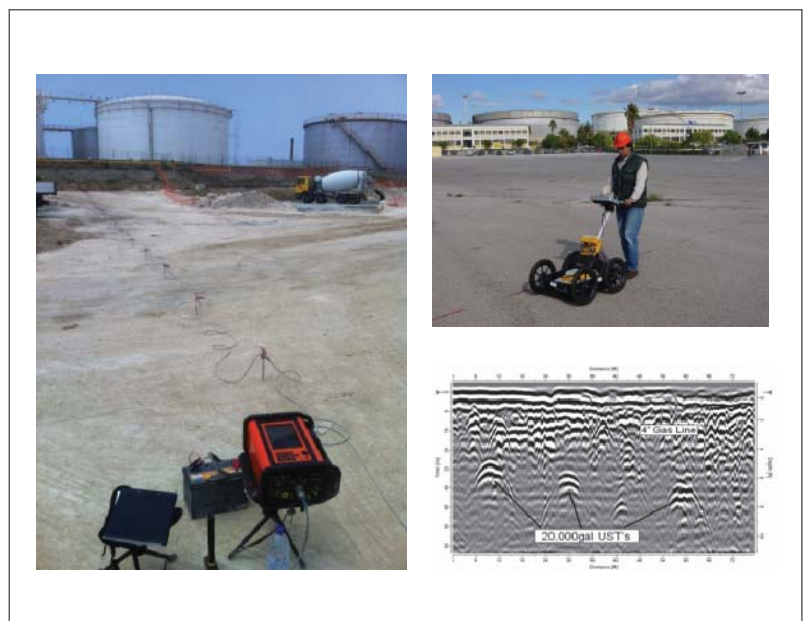
- Hazardous waste mapping, underground storage tanks (UST), Resistivity definition for Grounding Design

Geophysical Methods:

- GPR
- ERT

Geophysical Equipment:

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



EXPERIENCE IN

GEOTECHNICAL INVESTIGATIONS



More than 30.000m of coring boreholes, both on-shore and off-shore with in-situ and laboratory testing for more than 500 different projects.



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

Our experience includes execution of more than 30.000m 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.



On-Shore Boreholes



Off-Shore Boreholes



Wagon-Drilling

GEOTECHNICAL INVESTIGATIONS



Laboratory Testing



Trial Excavation



Pressuremeter Testing



Rock Sampling



Soil Sampling

