

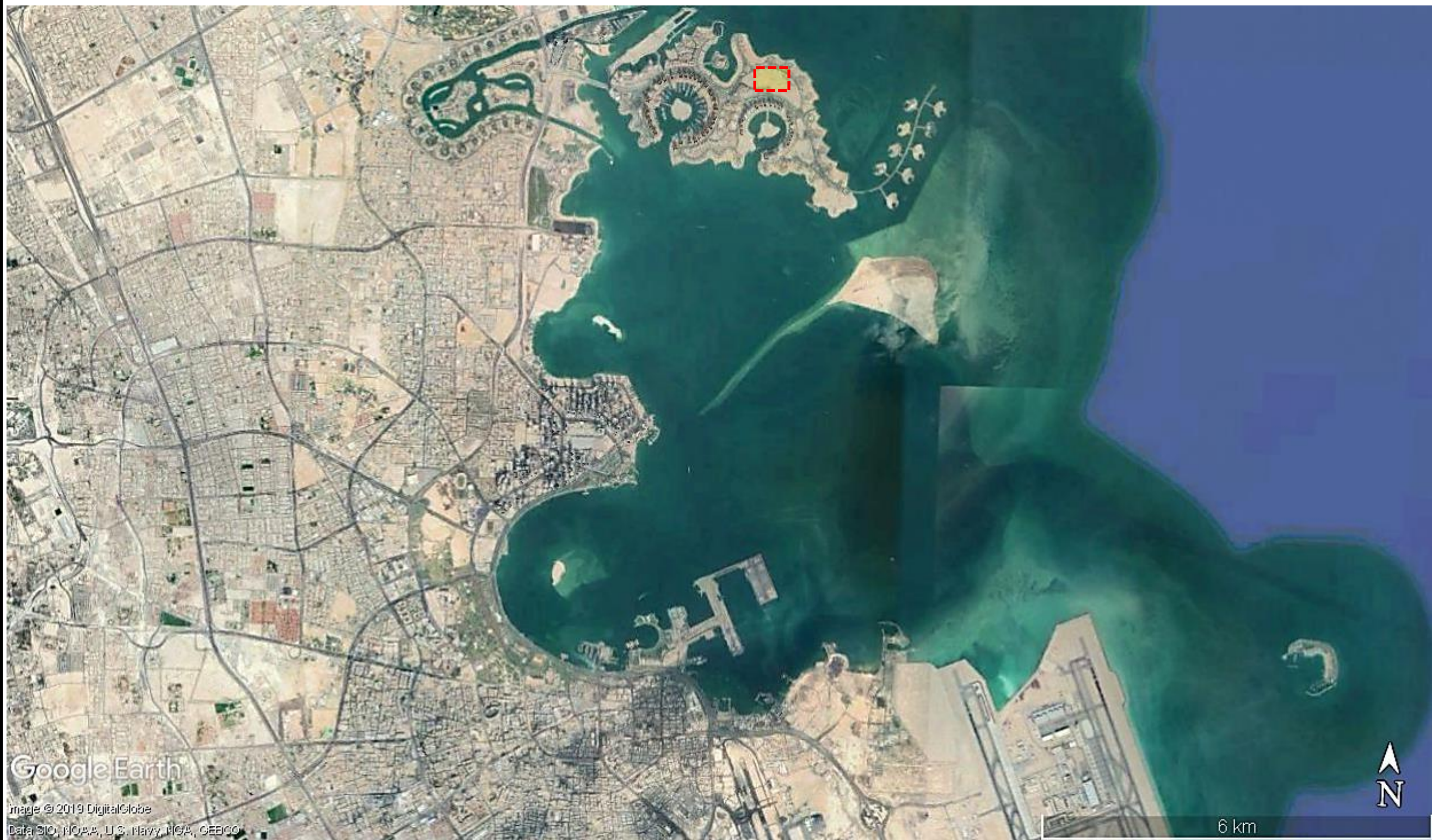


Fig.1.1 – Geographic location of the studied area



Study areas

PROJECT

Giardino Village (GV) Gated Compound &
1B+G+3 Apartment Building

METHODOLOGY

Geophysical investigation with Electrical
Resistivity Tomography (ERT) for ground
characterization and assessment of cavity

OBJECT

Geographic location of
the studied area

DATE 02/05/2019

**PANEL
N.1**

In cooperation with:

Prepared: AP
Checked: WZ
Approved: AR

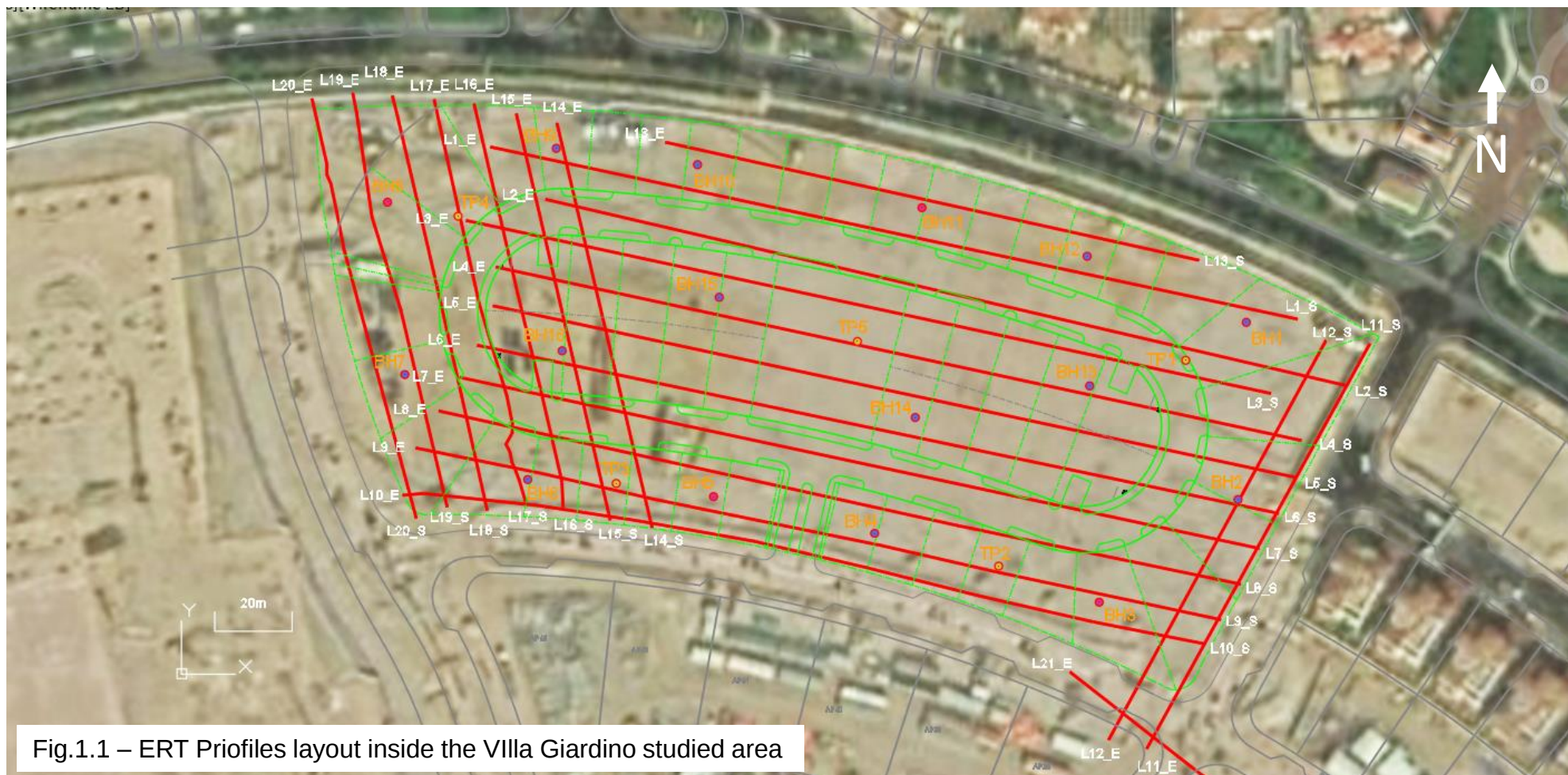


Fig.1.1 – ERT Profiles layout inside the Villa Giardino studied area

n.20 ERT Profiles carried out in Villa Giardino Area

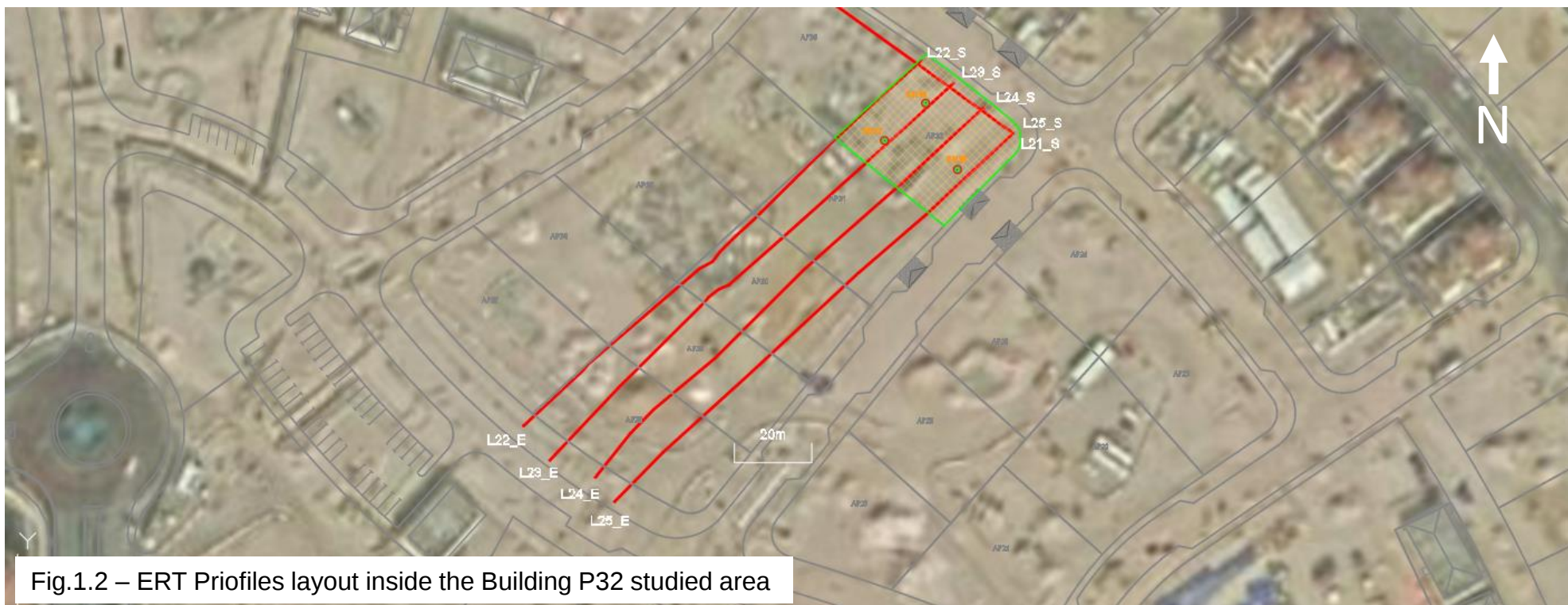


Fig.1.2 – ERT Profiles layout inside the Building P32 studied area

n.5 ERT Profiles carried out in Building P32 Area

- TP1 ● Trial Pit
- BH15 ● Borehole
- ERT profiles
- Project layout Study areas

PROJECT Giardino Village (GV) Gated Compound & 1B+G+3 Apartment Building		METHODOLOGY Geophysical investigation with Electrical Resistivity Tomography (ERT) for ground characterization and assessment of cavity	OBJECT ERT profiles layout DATE 02/05/2019	PANEL N.2	In cooperation with: Prepared: AP Checked: WZ Approved: AR
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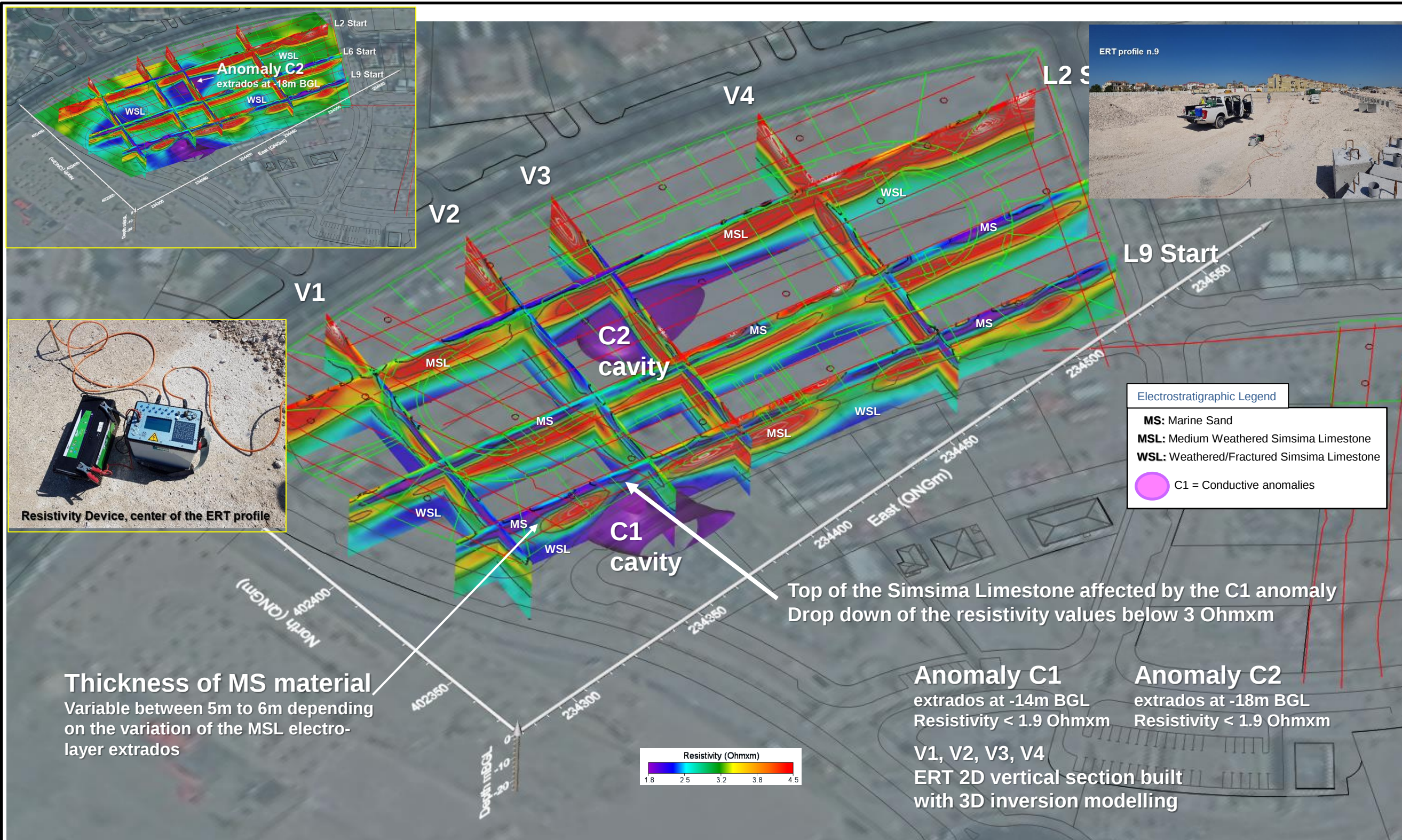


Fig.3.1 – Conductive anomalies inside the Villa Giardino Area – 3D SW View

PROJECT
Giardino Village (GV) Gated Compound &
1B+G+3 Apartment Building

METHODOLOGY
Geophysical investigation with Electrical
Resistivity Tomography (ERT) for ground
characterization and assessment of cavity

OBJECT
Conductive Anomalies
in Villa Giardino Area

DATE 02/05/2019

PANEL
N.3

In cooperation with:

Prepared: AP
Checked: WZ
Approved: AR

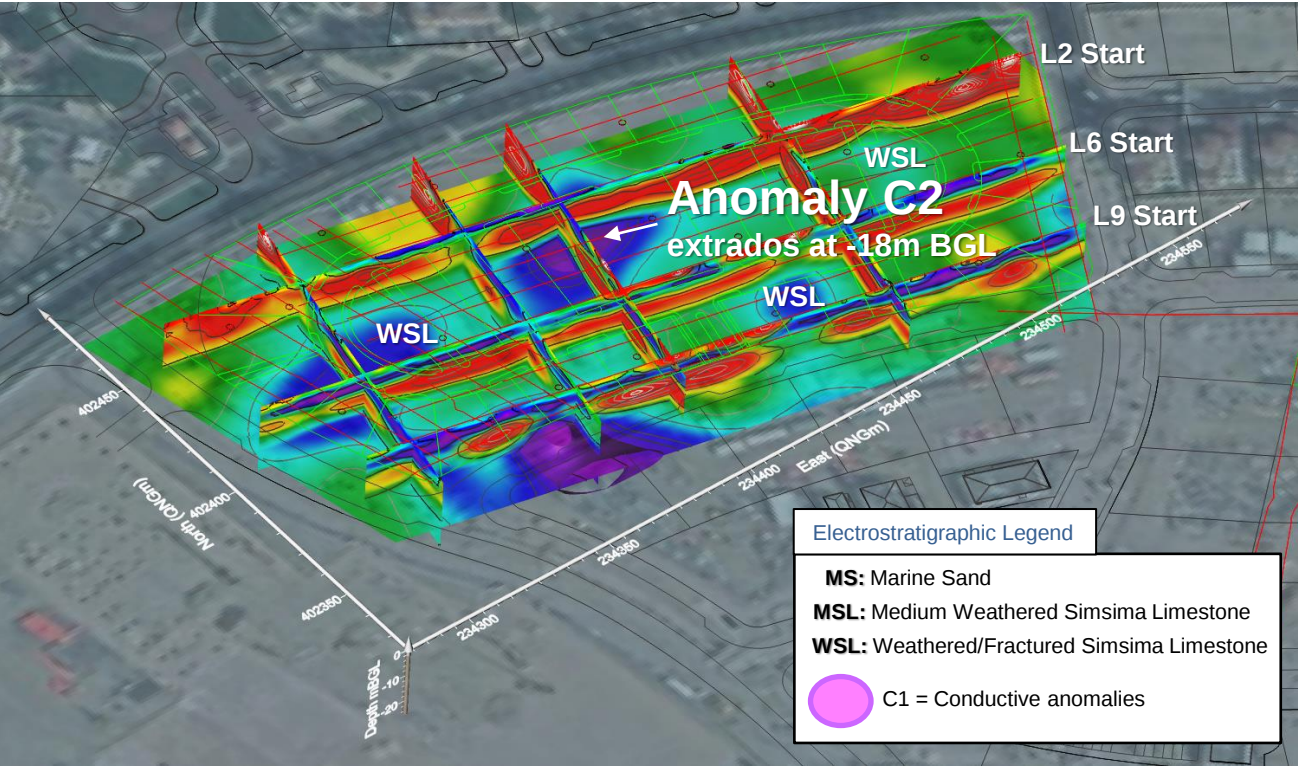


Fig.4.1 – XY (horizontal) resistivity plane @ -18m BGL – 3D SW view

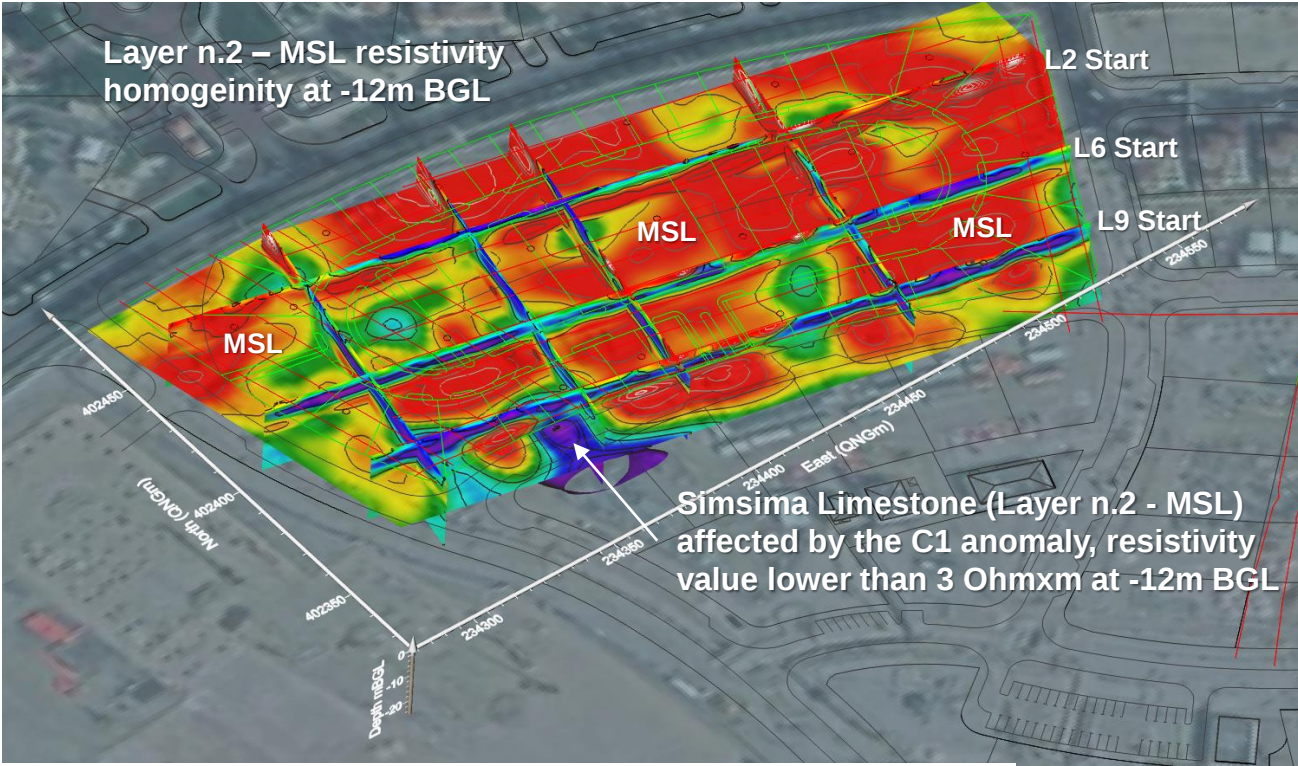


Fig.4.3 – XY (horizontal) resistivity plane @ -12m BGL – 3D SW view

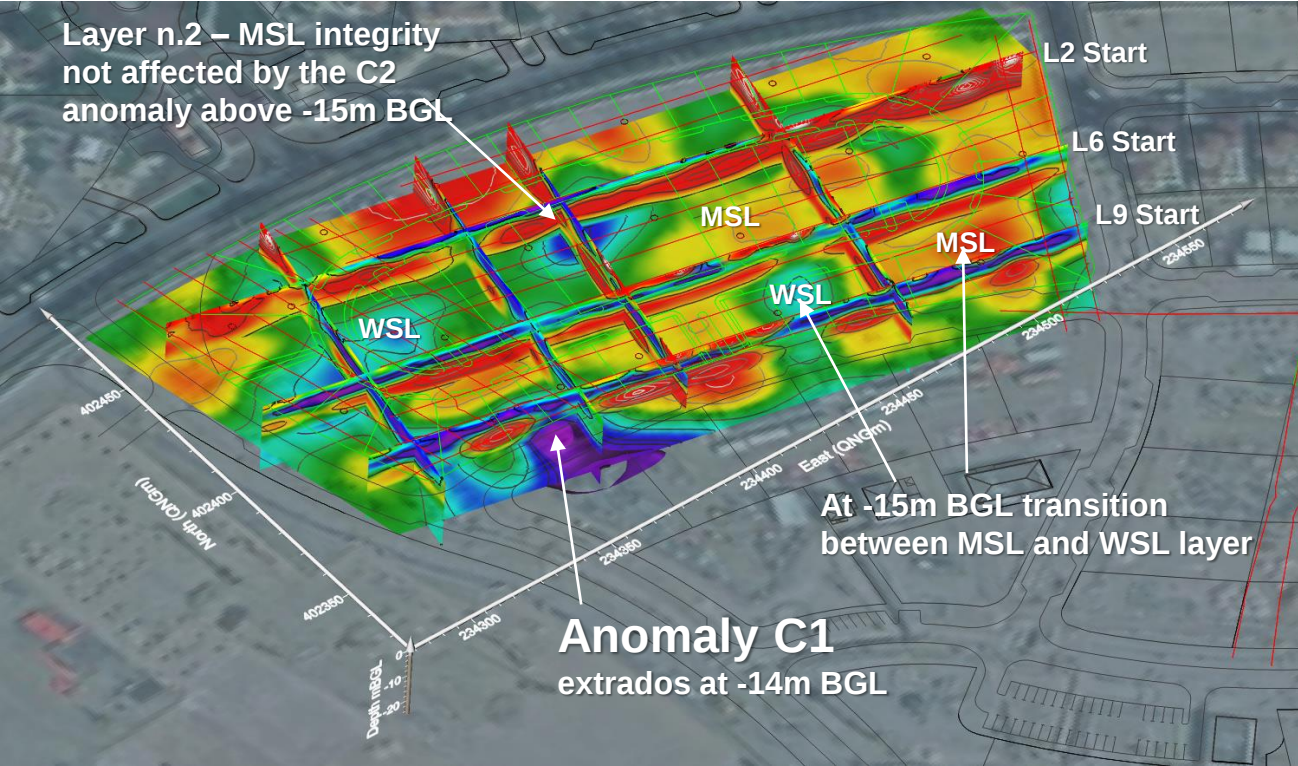


Fig.4.2 – XY (horizontal) resistivity plane @ -15m BGL – 3D SW view

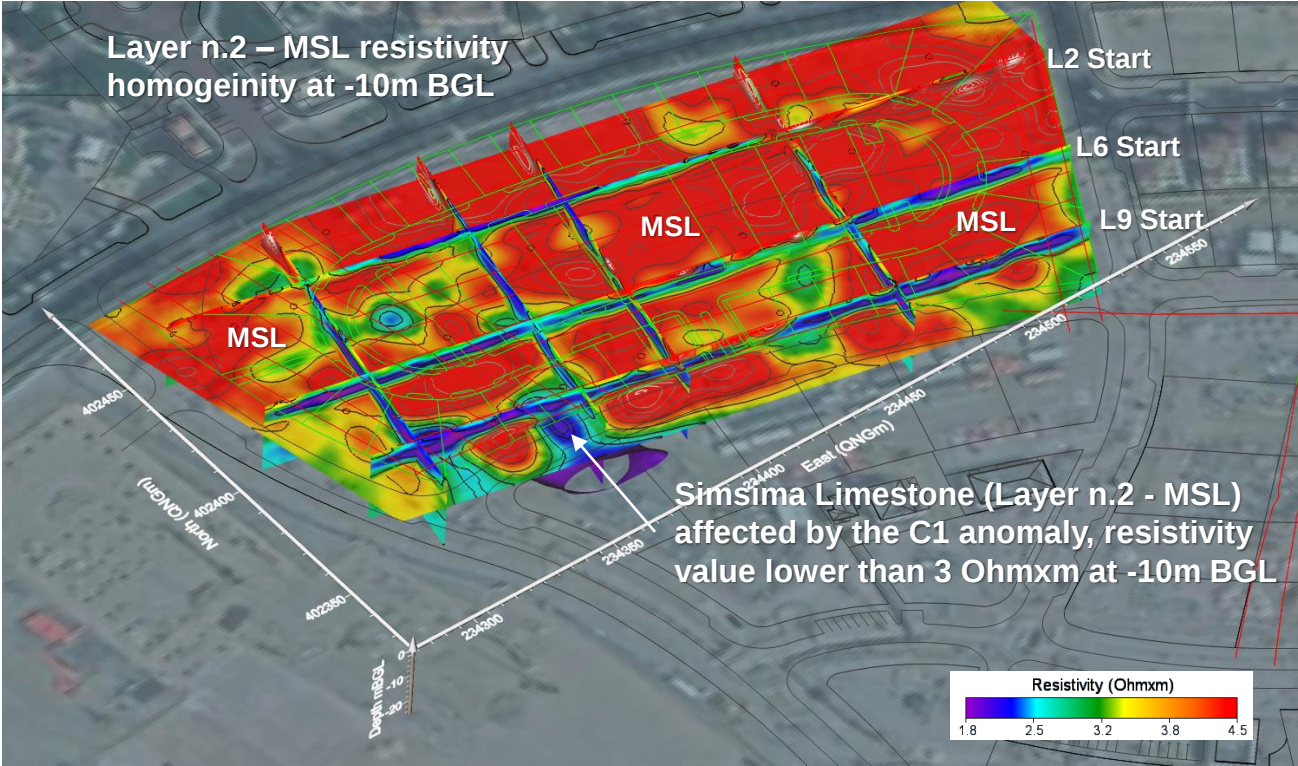


Fig.4.4 – XY (horizontal) resistivity plane @ -10m BGL – 3D SW view

PROJECT Giardino Village (GV) Gated Compound & 1B+G+3 Apartment Building		METHODOLOGY Geophysical investigation with Electrical Resistivity Tomography (ERT) for ground characterization and assessment of cavity	OBJECT Villa Giardino Area: XY Resistivity Horizontal Plane DATE 02/05/2019	PANEL N.4	In cooperation with: Prepared: AP Checked: WZ Approved: AR
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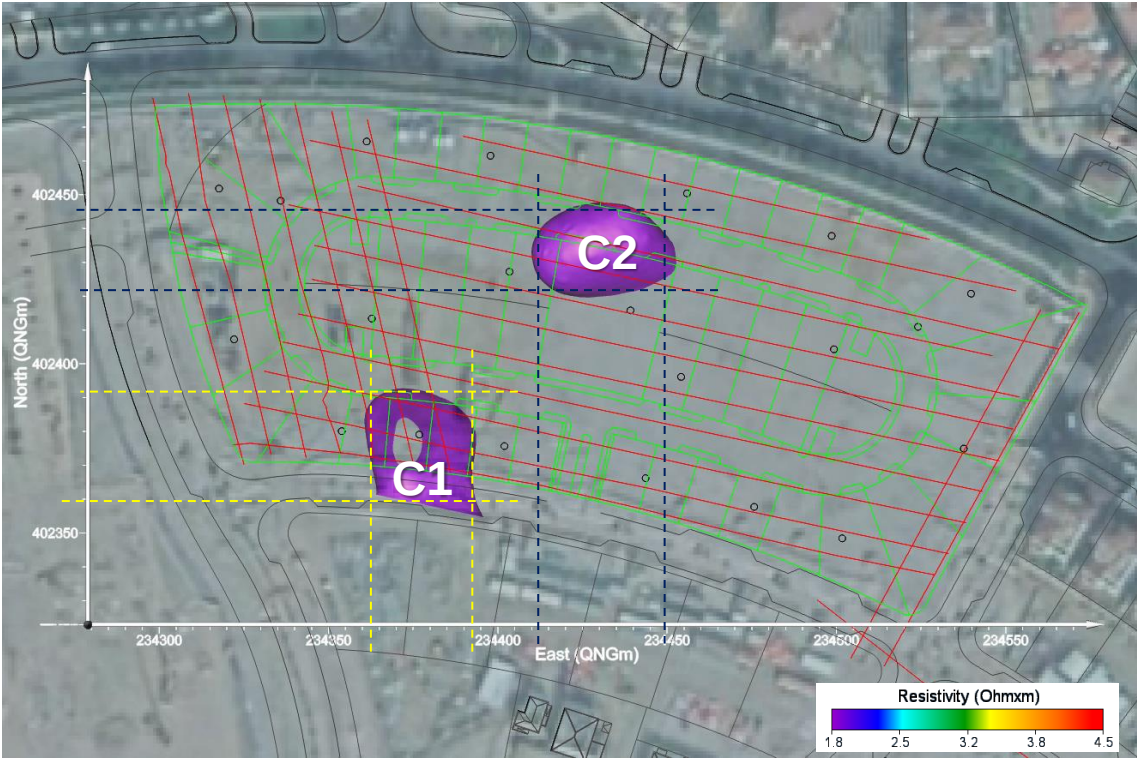


Fig.5.1 – Conductive anomalies in Villa Giardino area: 3D volume – Top View

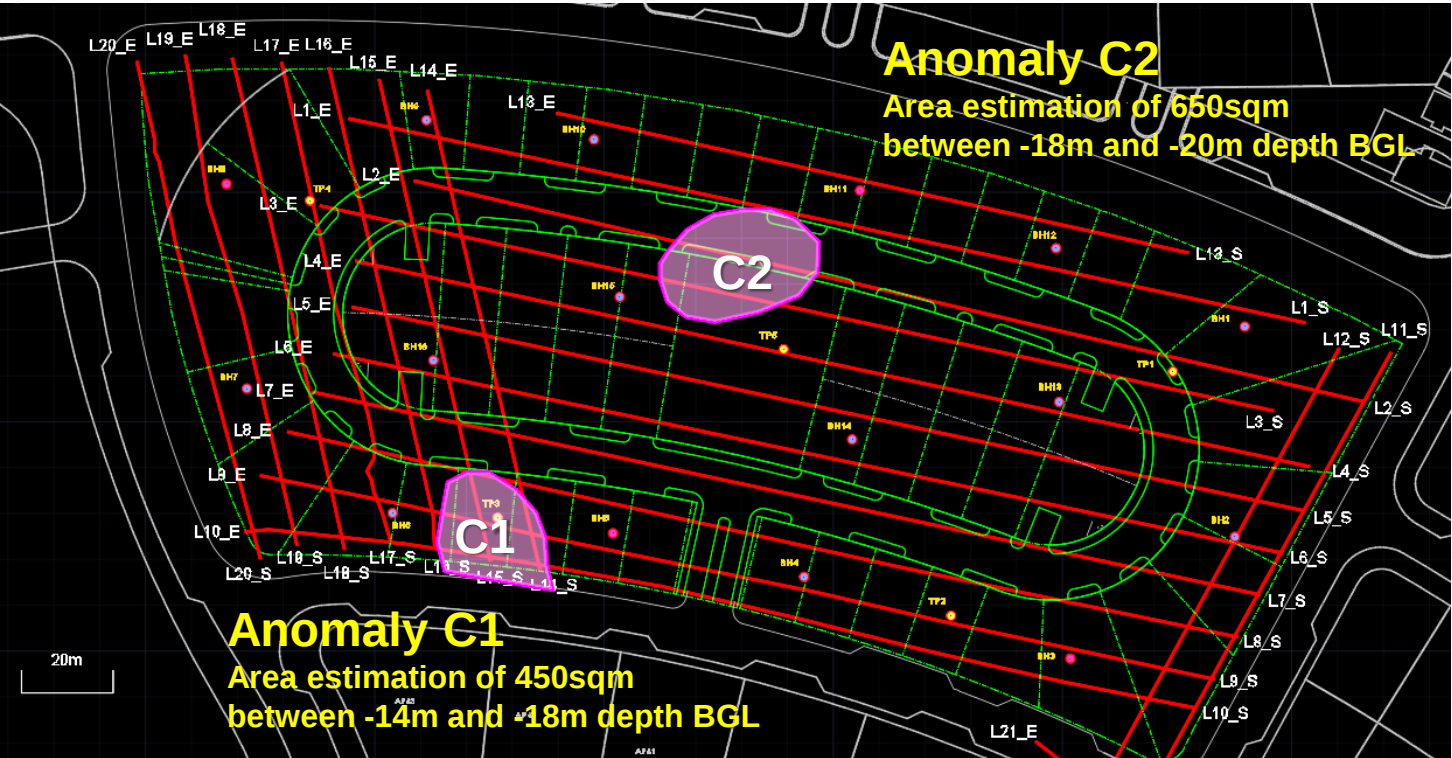


Fig.5.3 – Area estimation of Conductive Anomalies in Villa Giardino Area

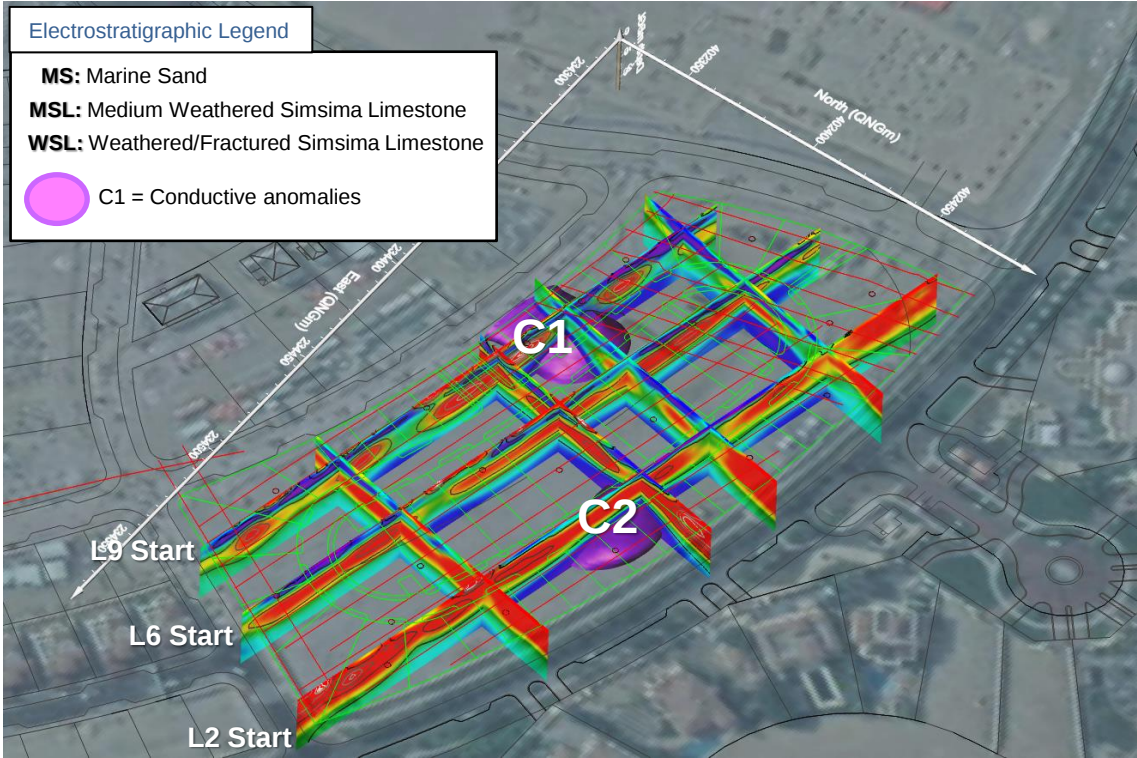


Fig.5.2 – Conductive anomalies inside the Villa Giardino Area – 3D NE view

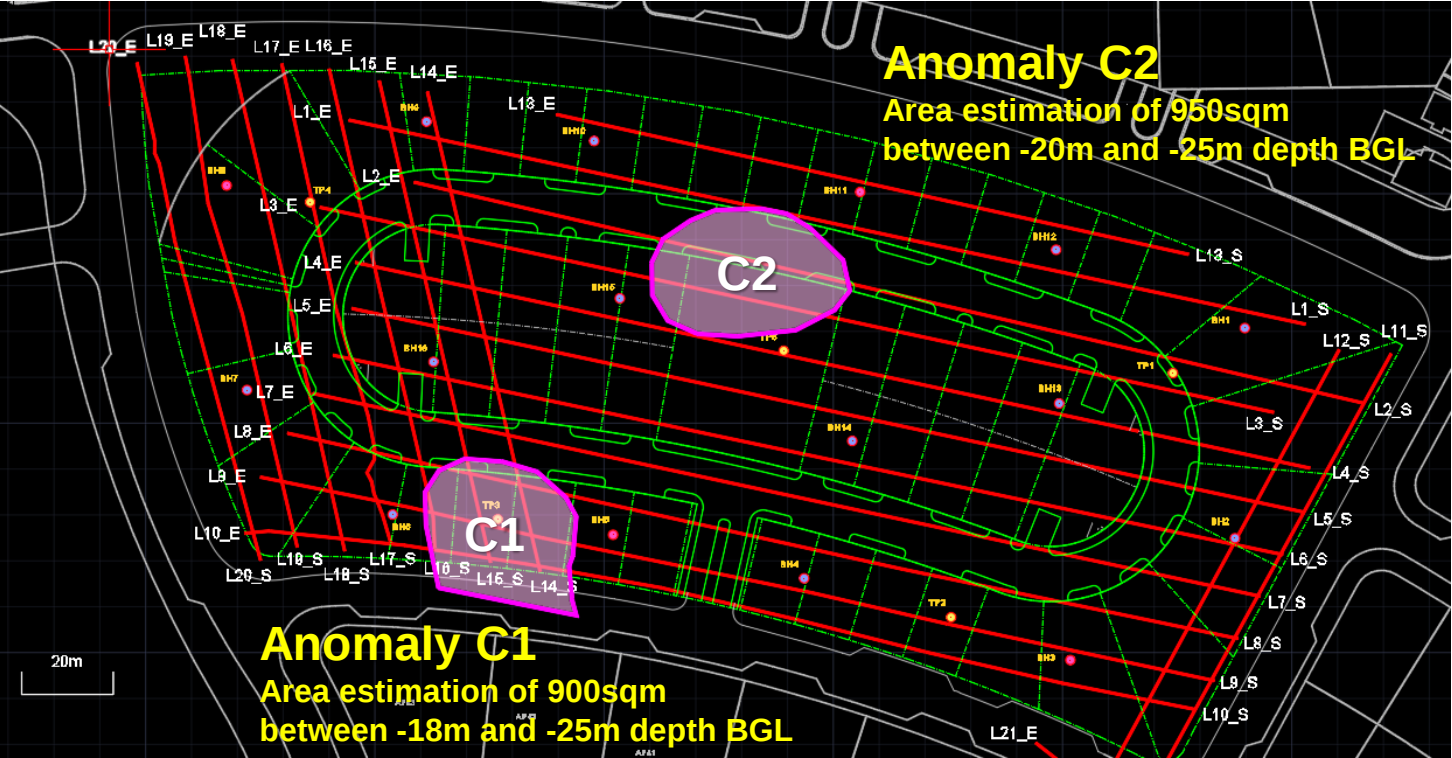


Fig.5.4 – Area estimation of Conductive Anomalies in Villa Giardino Area

PROJECT Giardino Village (GV) Gated Compound & 1B+G+3 Apartment Building		METHODOLOGY Geophysical investigation with Electrical Resistivity Tomography (ERT) for ground characterization and assessment of cavity	OBJECT Villa Giardino Area: Conductive Anomalies Characterization DATE 02/05/2019	PANEL N.5	In cooperation with: Prepared: AP Checked: WZ Approved: AR
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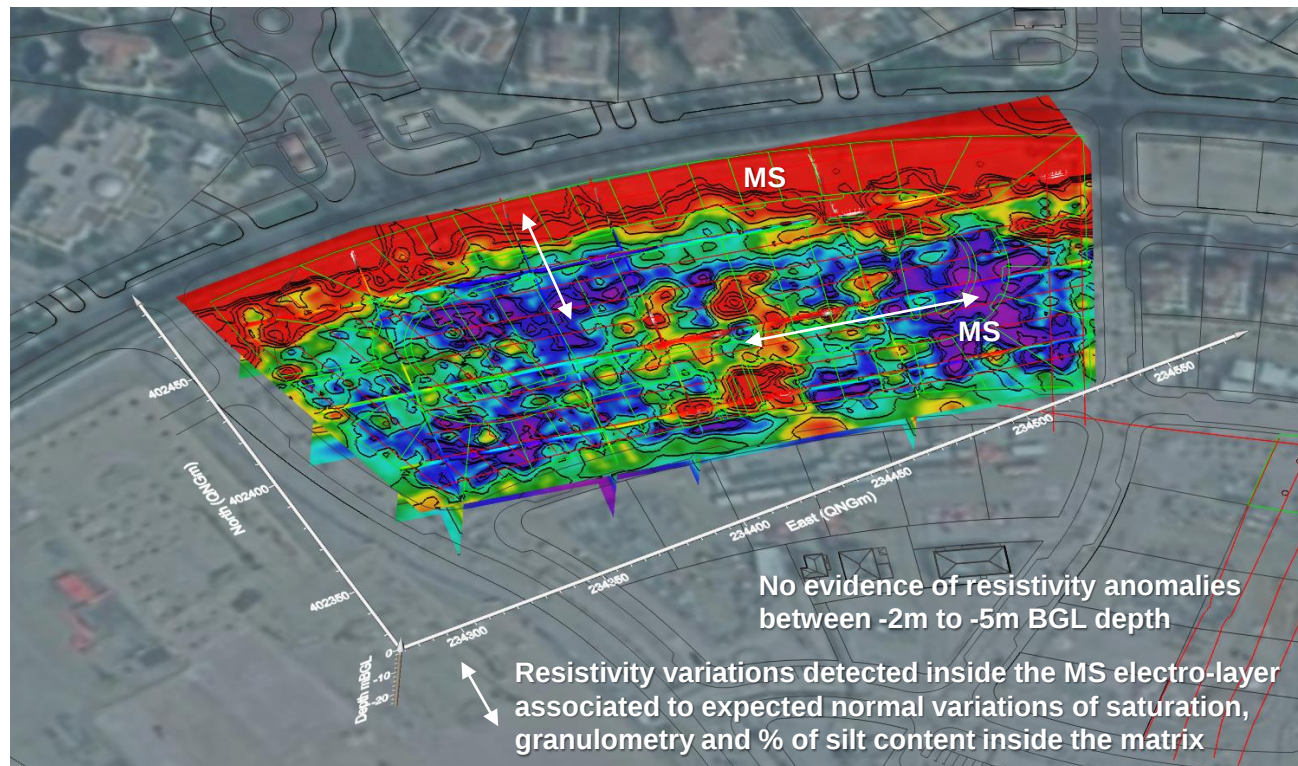


Fig.6.1 – Shallow analysis, XY Resistivity Plane @-2m BGL – SW 3D View

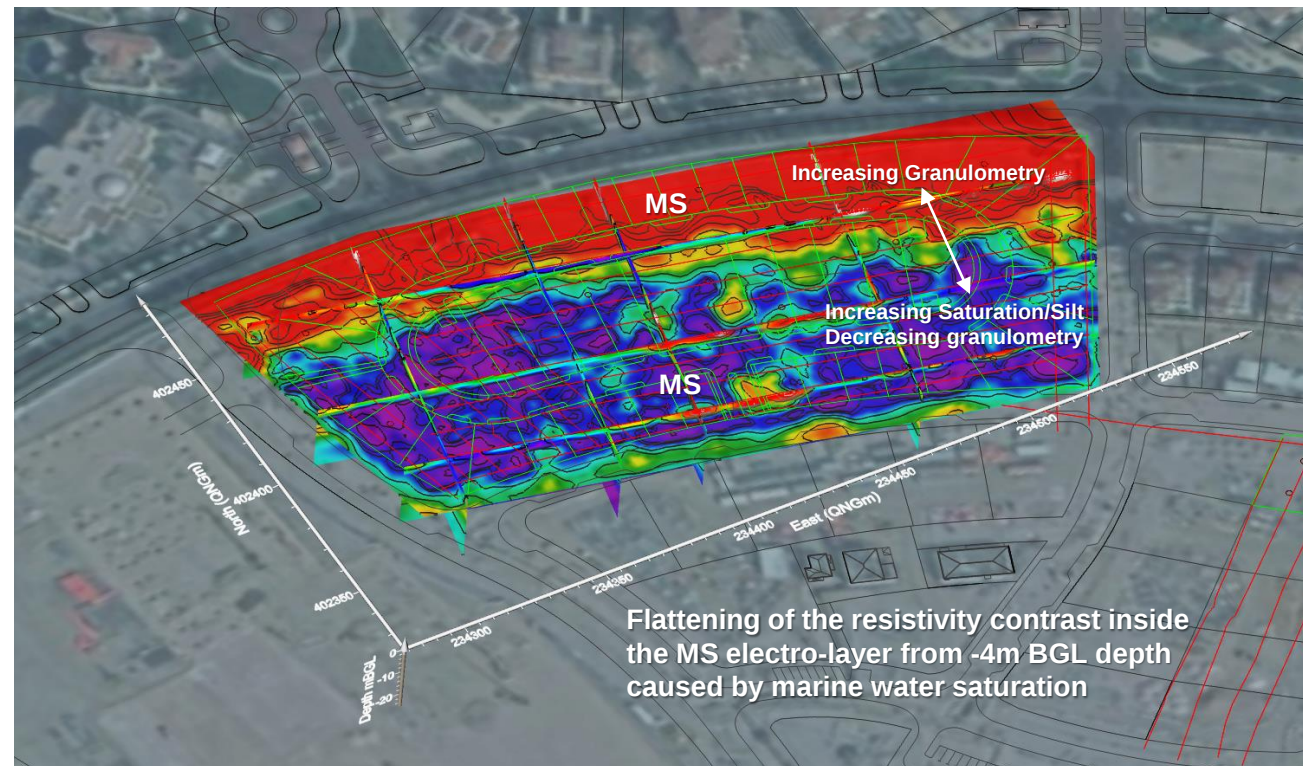


Fig.6.3 – Shallow analysis, XY Resistivity Plane @-4m BGL – SW 3D View

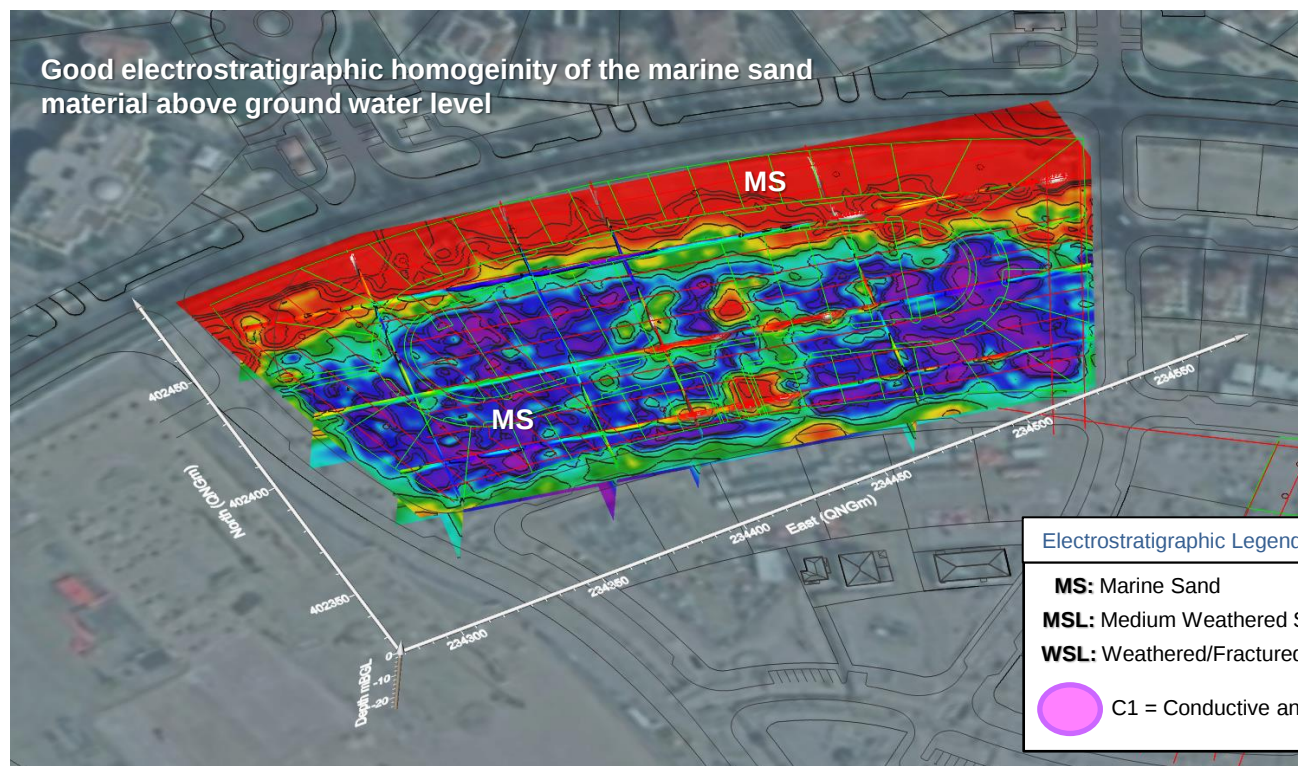


Fig.6.2 – Shallow analysis, XY Resistivity Plane @-3m BGL – SW 3D View

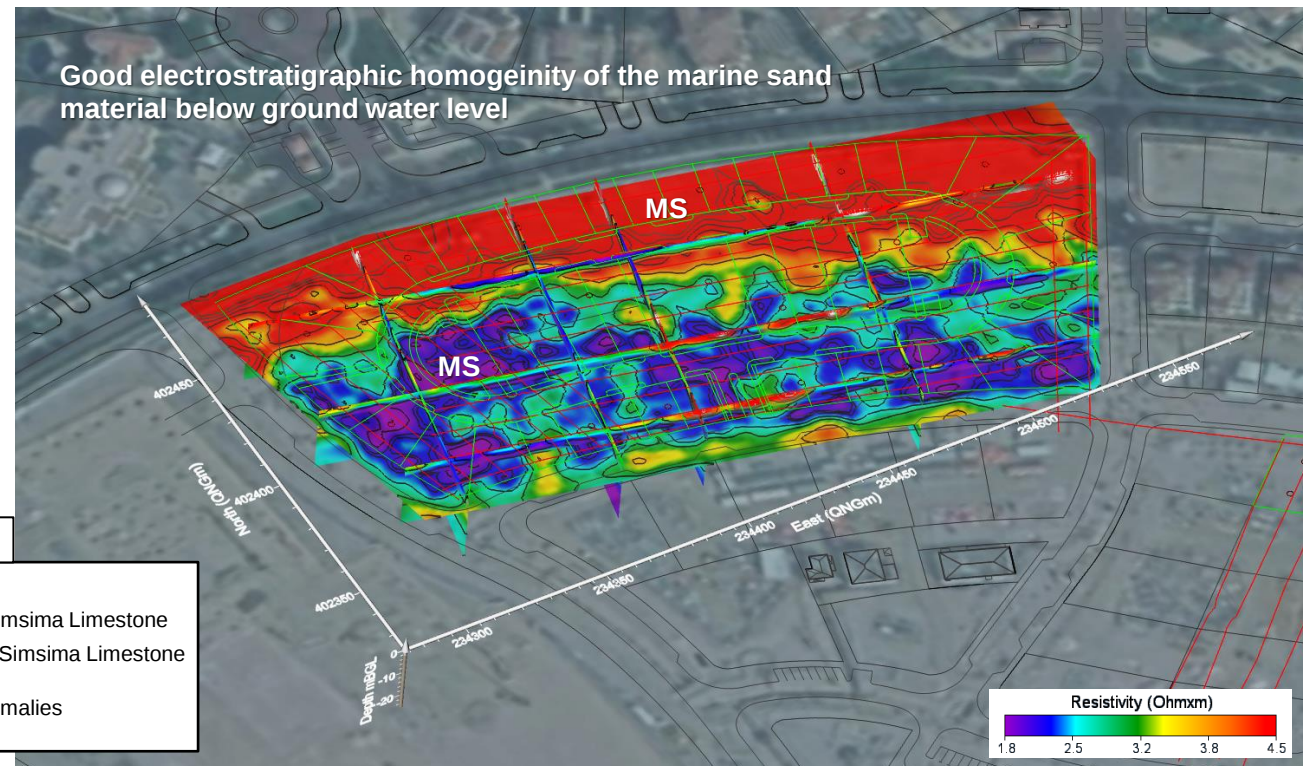


Fig.6.4 – Shallow analysis, XY Resistivity Plane @-5m BGL – SW 3D View

PROJECT Giardino Village (GV) Gated Compound & 1B+G+3 Apartment Building		METHODOLOGY Geophysical investigation with Electrical Resistivity Tomography (ERT) for ground characterization and assessment of cavity	OBJECT Villa Giardino Area: shallow analysis DATE 02/05/2019	PANEL N.6	In cooperation with: Prepared: AP Checked: WZ Approved: AR
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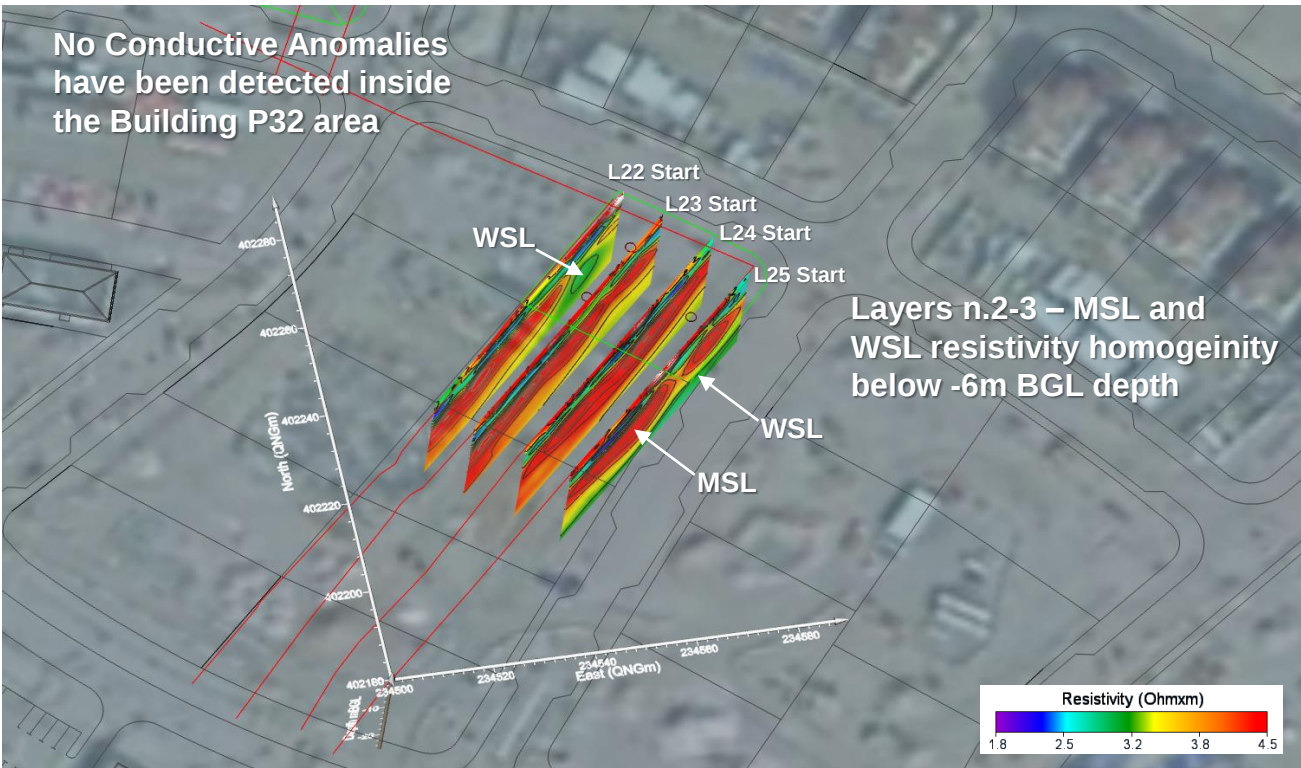


Fig.7.1 – ERT 2D profiles – SW 3D View

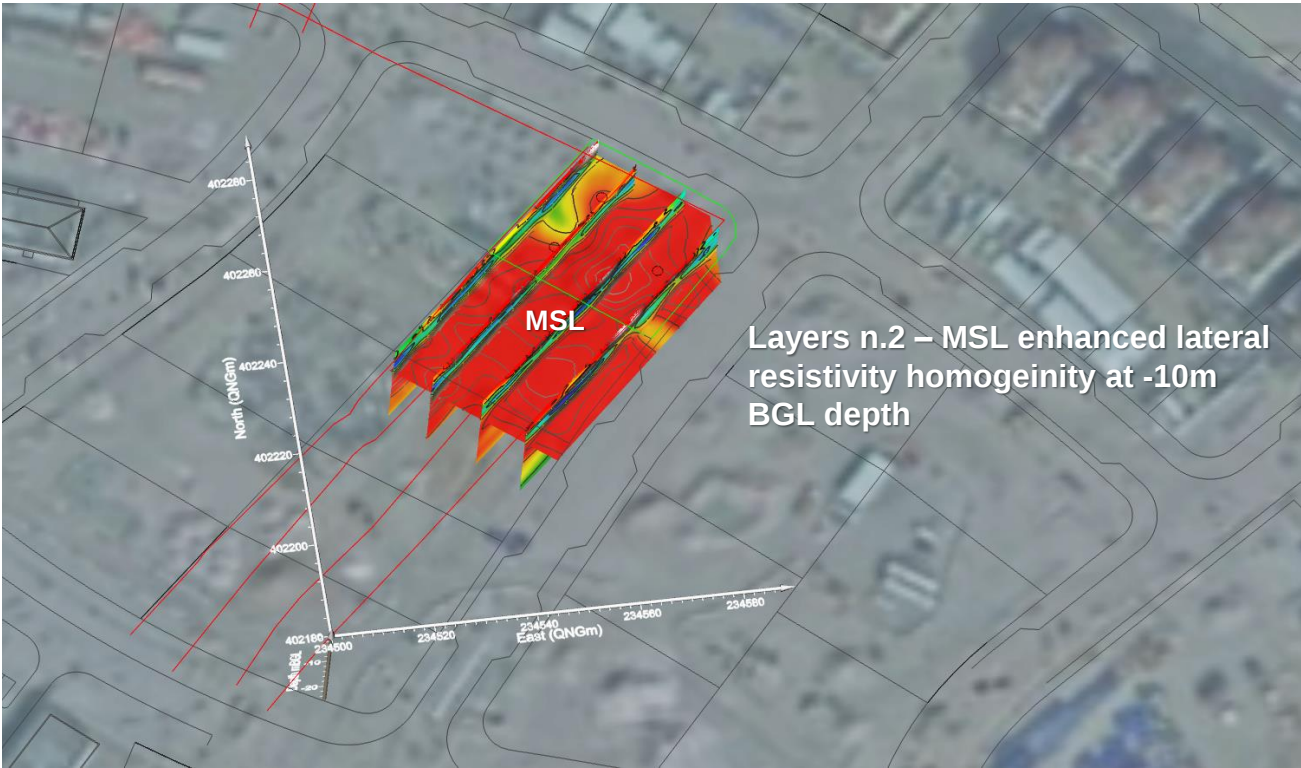


Fig.7.4 – ERT 2D profiles and XY Resistivity Plane @-10m BGL – SW 3D View

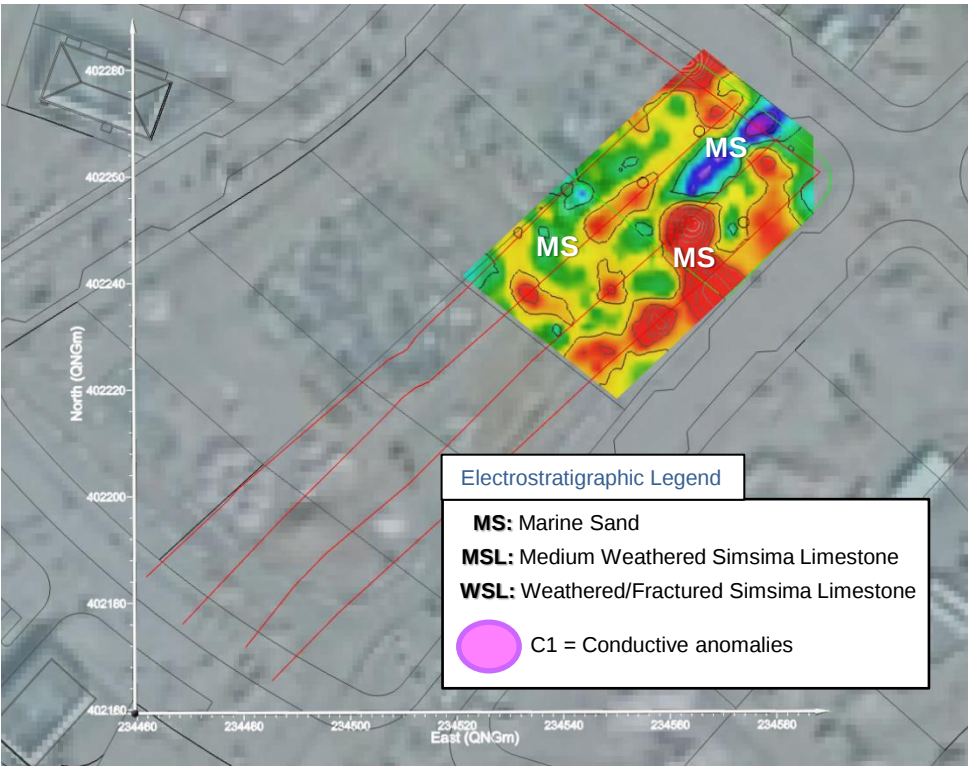


Fig.7.2 – ERT 2D profiles and XY Resistivity Plane @-2m BGL – Top View

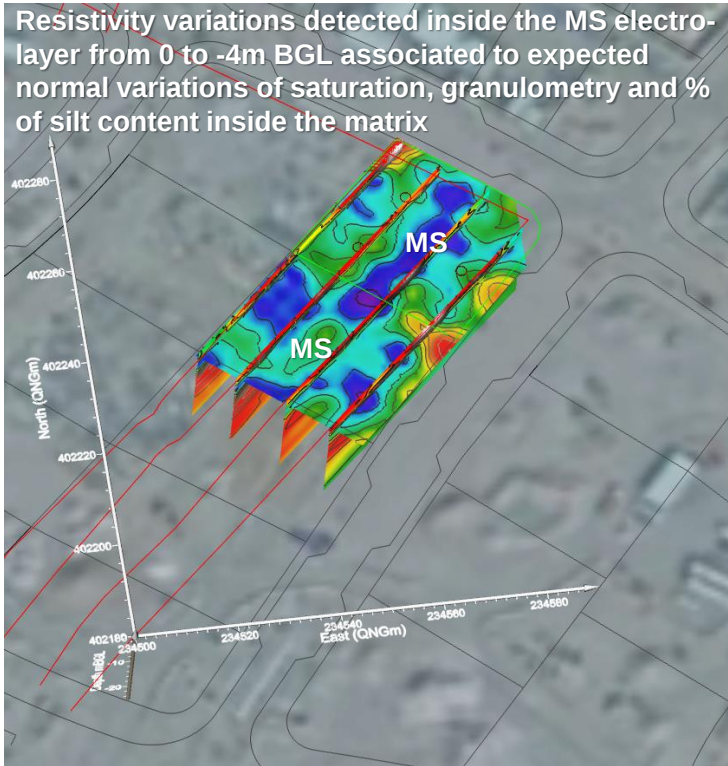


Fig.7.3 – ERT 2D profiles and XY Resistivity Plane @-4m BGL – SW 3D View

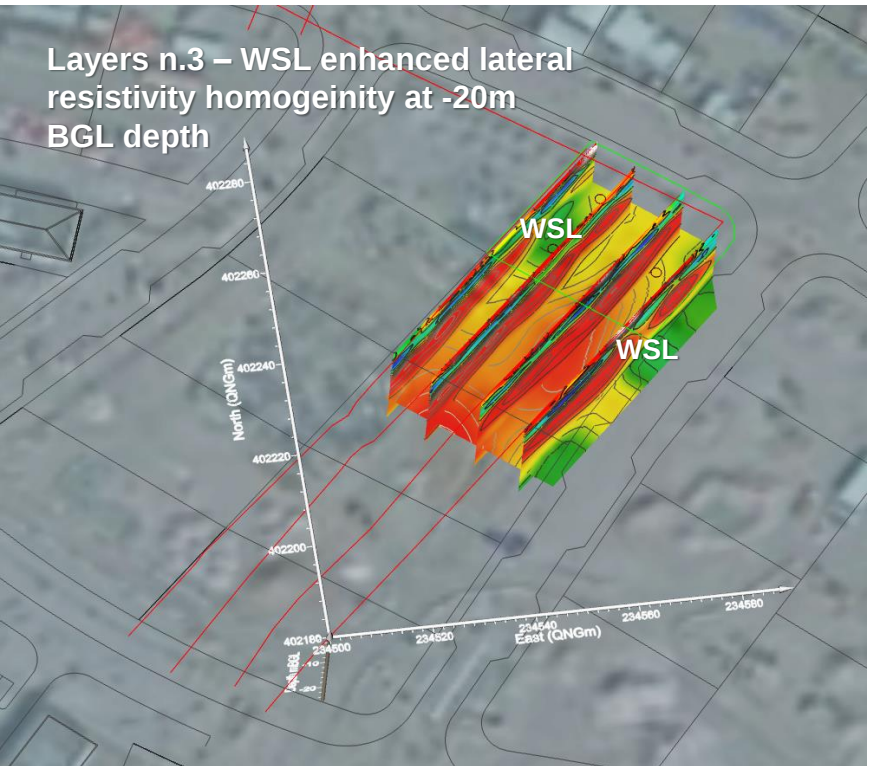


Fig.7.5 – ERT 2D profiles and XY Resistivity Plane @-20m BGL – SW 3D View

PROJECT
Giardino Village (GV) Gated Compound & 1B+G+3 Apartment Building

METHODOLOGY
Geophysical investigation with Electrical Resistivity Tomography (ERT) for ground characterization and assessment of cavity

OBJECT
Building P32 Area: results

DATE 02/05/2019

PANEL
N.7

In cooperation with:

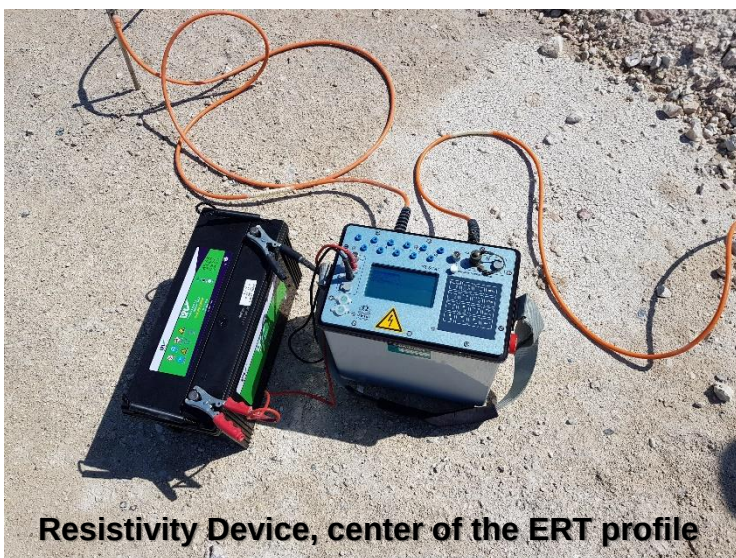
Prepared: AP
Checked: WZ
Approved: AR



ERT Profile n.1



ERT Profile n.3



Resistivity Device, center of the ERT profile



High precision survey for accurate electrode positioning



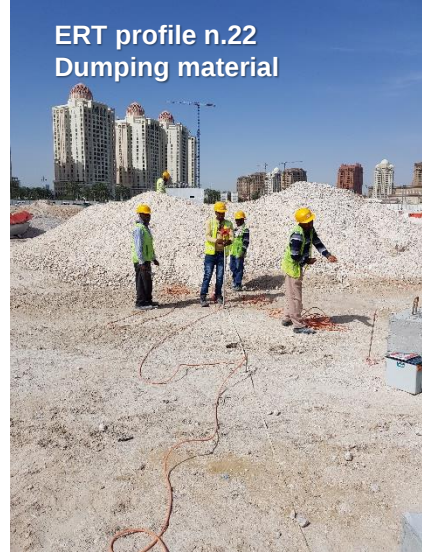
Electrode installation inside loose sandy/gravelly dumping material, watering



ERT cable installation in progress
ERT profile n.4



ERT cable installation in progress
ERT profile n.4
Panorama view of the Villa Giardino survey area



ERT profile n.22
Dumping material



ERT profile n.9



ERT profile n.21



ERT profile n.23

PROJECT
Giardino Village (GV) Gated Compound &
1B+G+3 Apartment Building

METHODOLOGY
Geophysical investigation with Electrical
Resistivity Tomography (ERT) for ground
characterization and assessment of cavity

OBJECT
Photographic
Documentation

DATE 02/05/2019

PANEL
N.8

Prepared: AP
Checked: WZ
Approved: AR

In cooperation with: