

AGL15060_01

**REPORT
ON THE
GEOPHYSICAL INVESTIGATION
FOR
GREATER DUBLIN DRAINAGE SCHEME,
OFFSHORE PORTMARNOCK, DUBLIN
FOR
IRISH WATER**

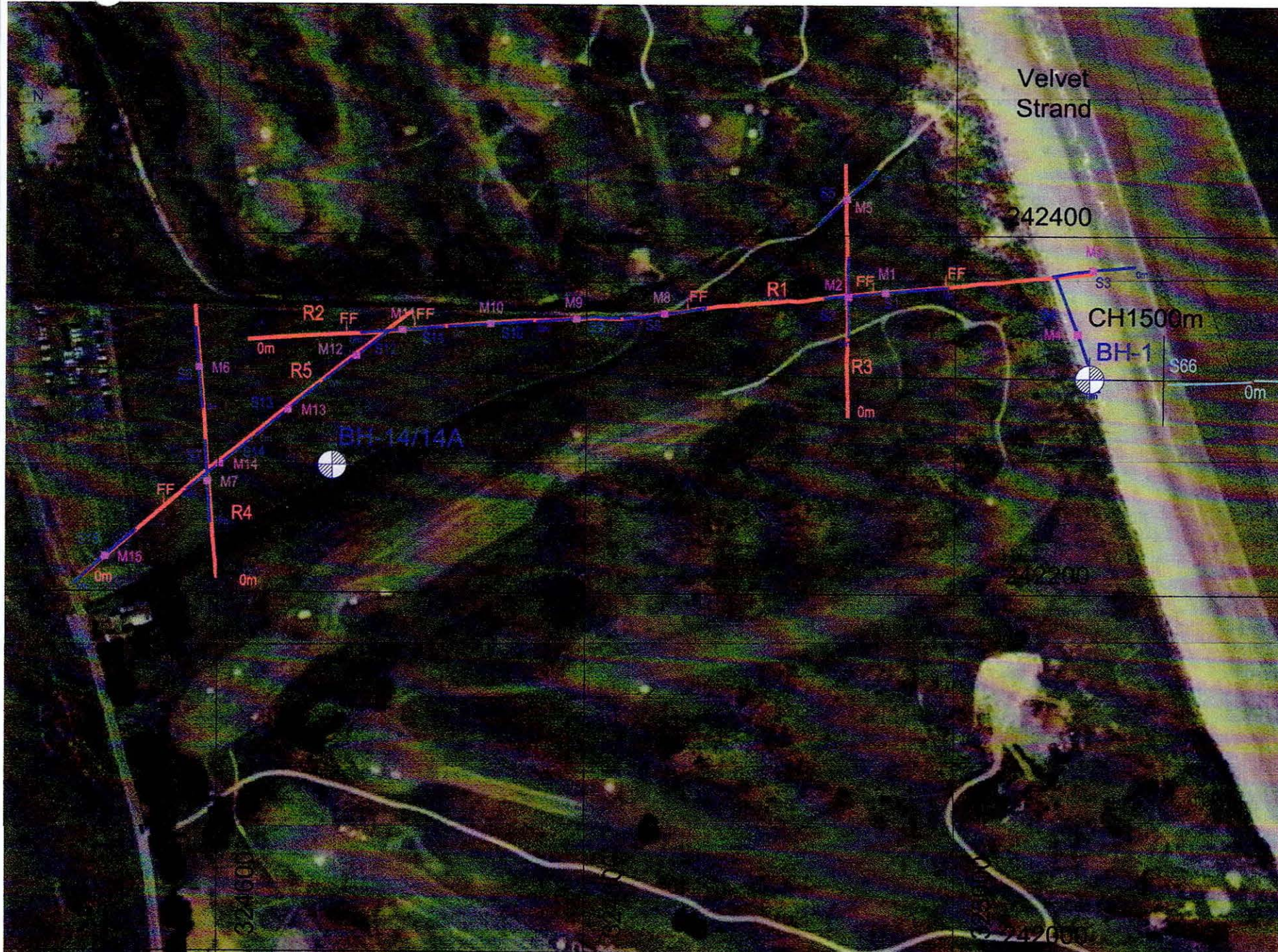
1ST DECEMBER 2015

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FIGURE 1: GEOPHYSICAL INVESTIGATION LOCATION MAP
SCALE 1:2000



INDEX MAP:



LEGEND:

- ERT Profile
- Seismic Refraction Spread
- MASW Location on Seismic Refraction Spread
- Client Borehole Data
- ING Coordinate
- Possible Fault / Fracture
- FF Possible Fault / Fracture

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PROJECT: G.D.P. PORTMARNOCK GOLF COURSE
GEOPHYSICAL INVESTIGATION
CLIENT: TOBIN CONSULTING ENGINEERS
DRAWING NO: AGL15247_01
SCALE: AS INDICATED @ A3
DATE: 27/01/2016

Version: 01 Date: 27/01/2016 Drawn By: T1 Checked: R100

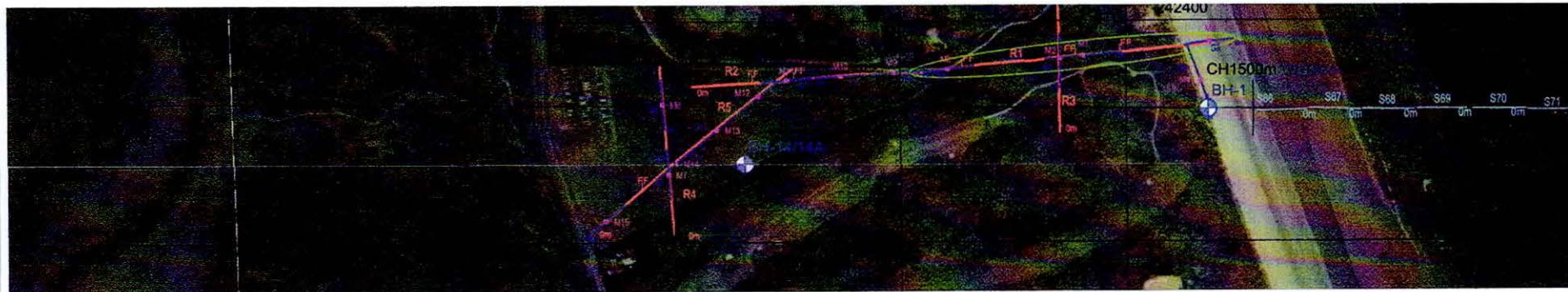
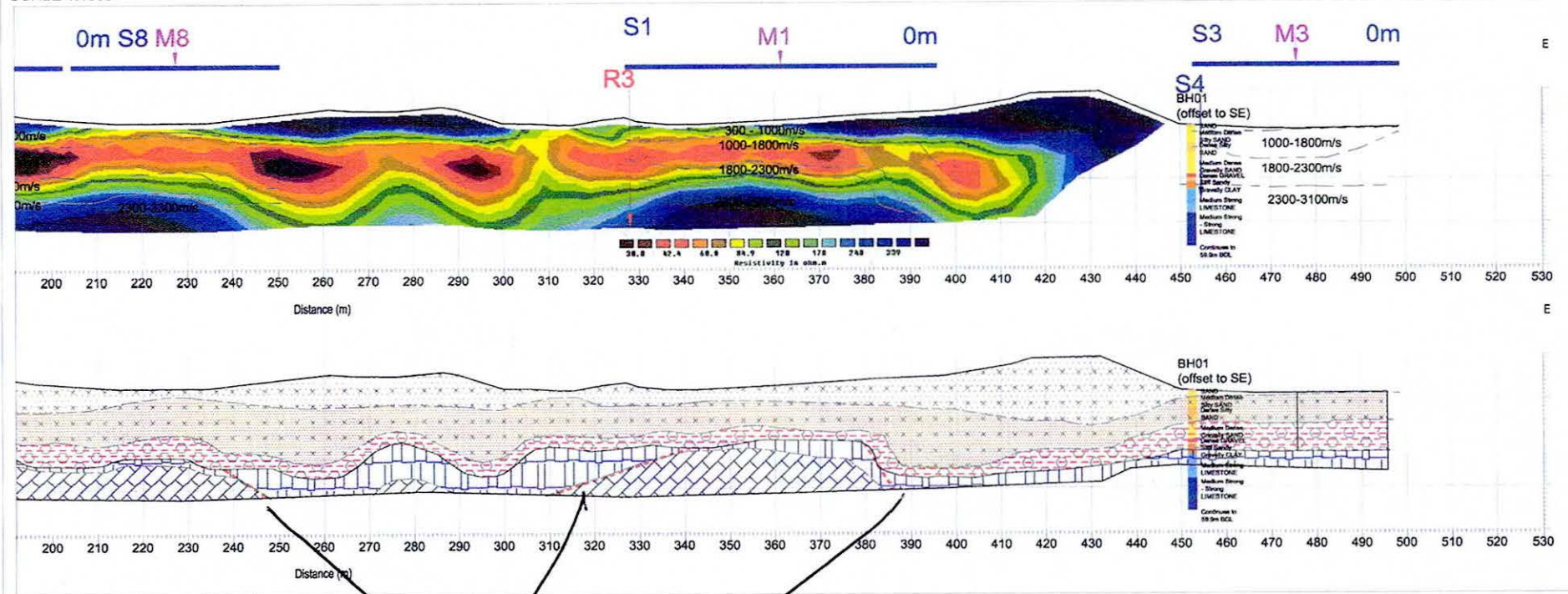


FIGURE 2: GEOPHYSICAL RESULTS & INTERPRETATION R1/R2
SCALE 1:1000



Possible Fault Zone

LEGEND:

- ERT Profile
- Seismic Refraction Spread
- Seismic Refraction Spread Marine Investigation 2015
- Area of Interpretation Display
- MASW Location on Seismic Refraction Spread
- Client Borehole Data
- ING Coordinate
- Overburden Thickness from Borehole
- Seismic Layer Boundary
- Internal Overburden Layer Boundary
- Top of Bedrock
- Possible Fault / Fracture Zone
- Very Loose - Medium Dense Silty Sand
- Medium Dense - Dense Silty Sand
- Stiff - Very Stiff Silty Gravelly CLAY
- Moderately Weathered Limestone & Shale
- Slightly Weathered - Fresh Limestone & Shale

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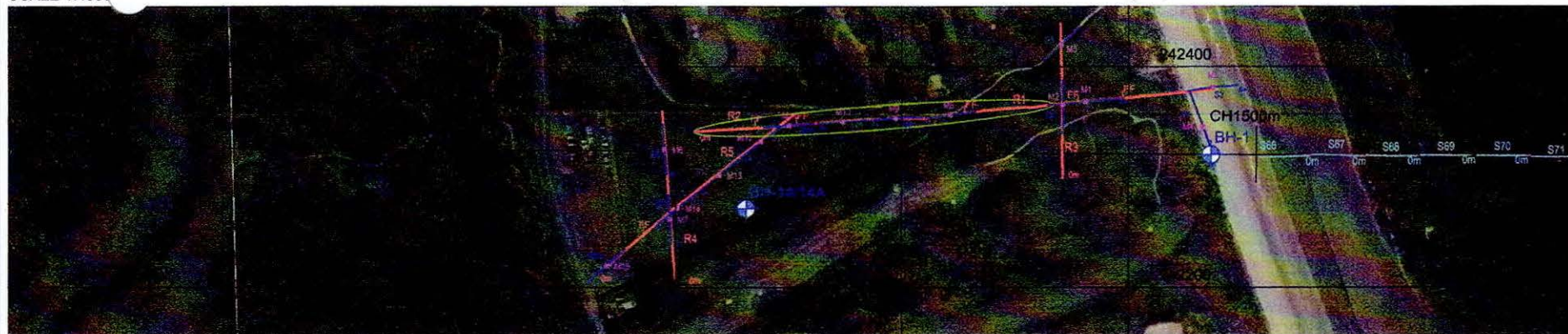
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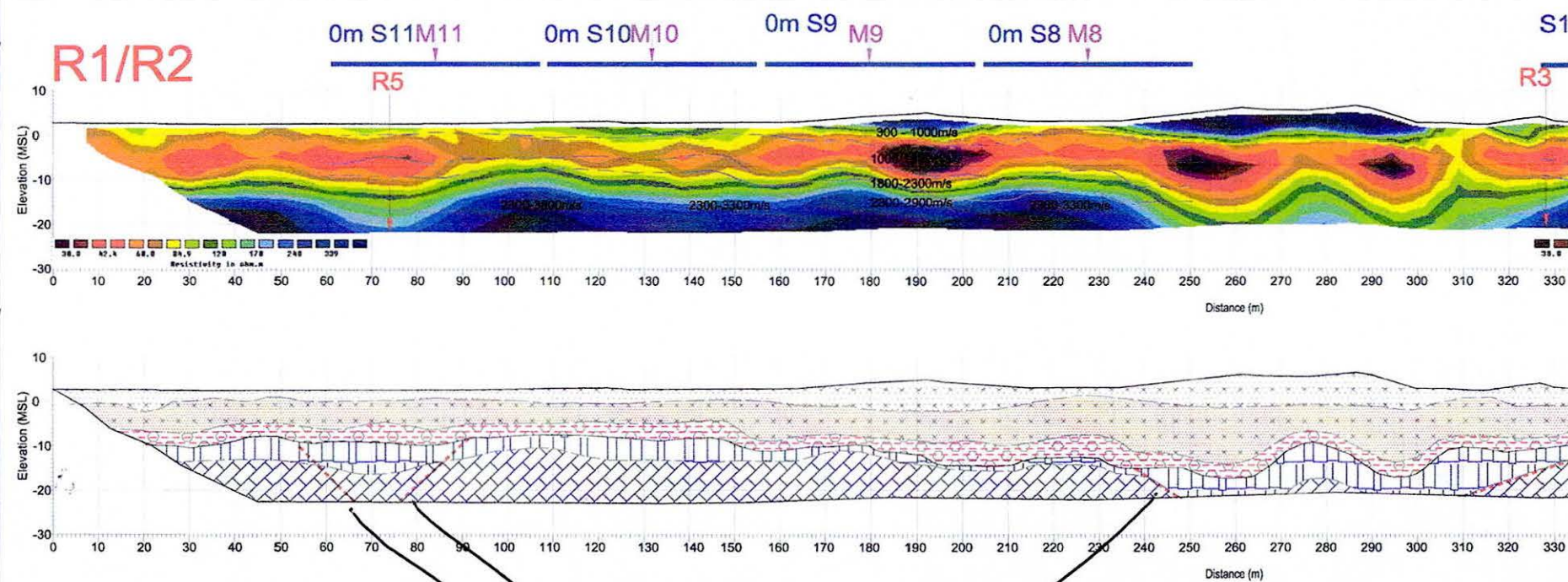
PROJECT: G.D.P. PORTMARNOCK GOLF COURSE
GEOPHYSICAL INVESTIGATION
CLIENT: TOBIN CONSULTING ENGINEERS
DRAWING NO: AGL15247_04
SCALE: AS INDICATED @ A3
DATE: 27/01/2016

Version	Date	Drawn By	Checked
01	27/01/2016	TL	SOR
02	11/02/2016	TL	SOR

SCALE 1:4000



SCALE 1:1000



Poss Fault Zone



LEGEND

-  ERT Profile
-  Seismic Refraction Spread
-  Seismic Refraction Spread Mass Investigation 2015
-  Area of Interpretation Display
-  MASW Location on Seismic Refraction Spread
-  Client Borehole Data
-  ING Coordinate
-  Overburden Thickness from Borehole
-  Seismic Layer Boundary
-  Internal Overburden Layer Boundary
-  Top of Bedrock
-  Possible Fault / Fracture Zone
-  Very Loose - Medium Dense Silty Sand
-  Medium Dense - Dense Silty Sand
-  Stiff - Very Stiff Sandy Gravely CLAY
-  Moderately Weathered Limestone & Shale
-  Slightly Weathered - Fresh Limestone & Shale



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CLIENT	TOBIN CONSULTING ENGINEERS
DRAWING NO	AGL15247_03
SCALE	AS INDICATED @ A3
DATE	27/01/2016

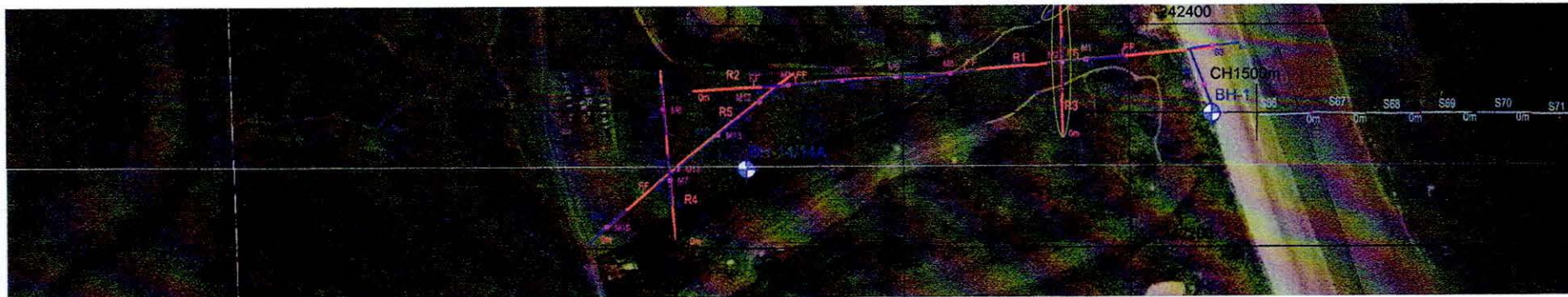


FIGURE 2: GEOPHYSICAL RESULTS & INTERPRETATION R3
SCALE 1:1000

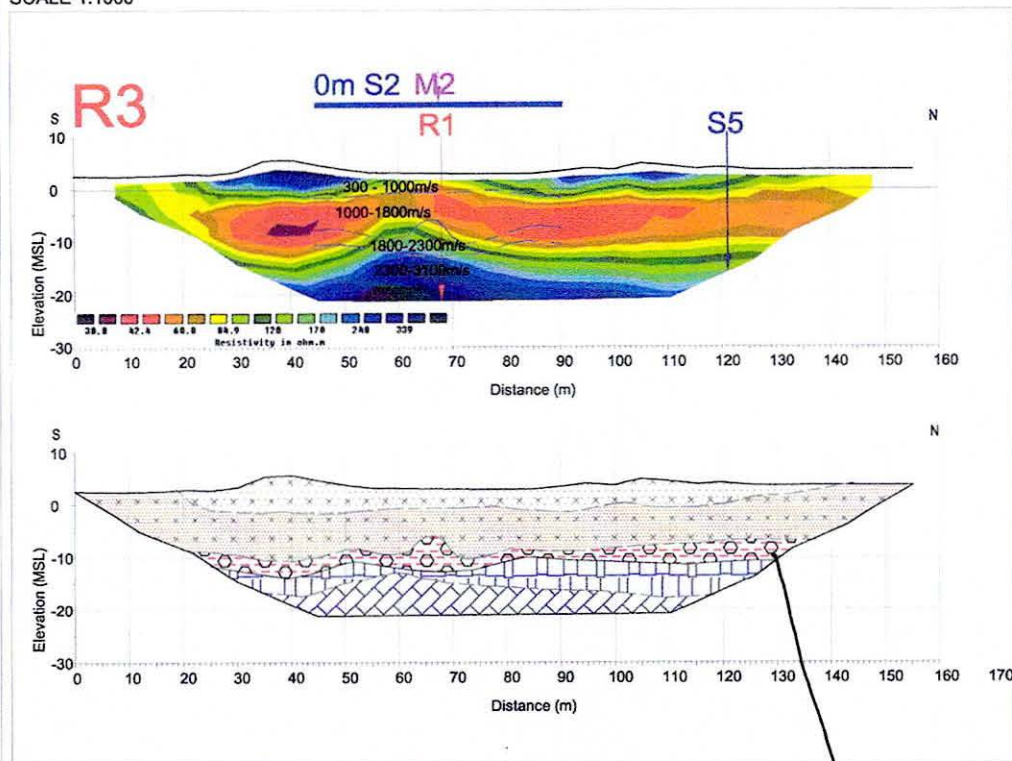
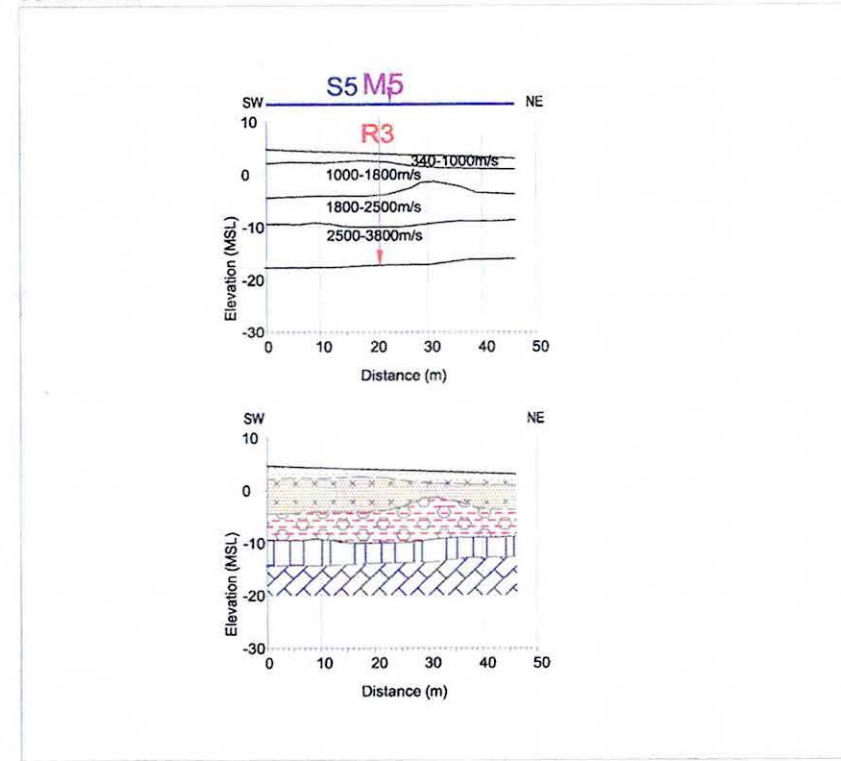


FIGURE 3: GEOPHYSICAL RESULTS & INTERPRETATION S5
SCALE 1:1000



- LEGEND:**
- ERT Profile
 - Seismic Refraction Spread
 - Seismic Refraction Spread Marine Investigation 2015
 - Area of Interpretation Display
 - MASW Location on Seismic Refraction Spread
 - Client Borehole Data
 - ING Coordinate
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 - Seismic Layer Boundary
 - Internal Overburden Layer Boundary
 - Top of Bedrock
 - Possible Fault / Fracture Zone

- Very Loose - Medium Dense Silty Sand
- Medium Dense - Dense Silty Sand
- Stiff - Very Stiff Silty Sandy Gravelly CLAY
- Moderately Weathered Limestone & Shale
- Slightly Weathered - Fresh Limestone & Shale

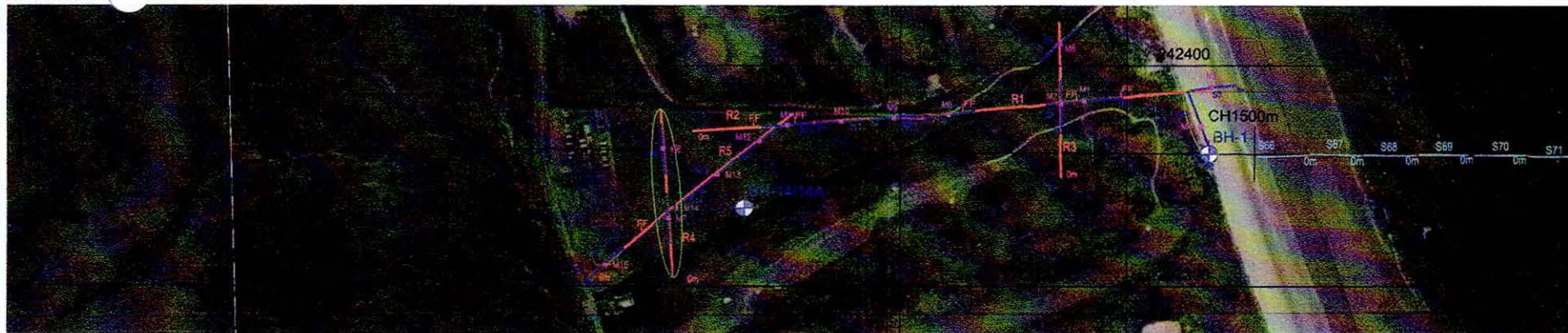
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PROJECT: G.D.P. PORTMARNOCK GOLF COURSE
GEOPHYSICAL INVESTIGATION
CLIENT: TOBIN CONSULTING ENGINEERS
DRAWING NO: AGL15247_06
SCALE: AS INDICATED @ A3
DATE: 27/01/2016
Version: 01, 27/01/2016, Drawn By: TL, Check: SOR
02, 11/02/2016, Drawn By: TL, Check: SOR

FIGURE 1: GEOPHYSICAL INVESTIGATION LOCATION R4

SCALE 1:4000



INDEX MAP



LEGEND:

- ERT Profile
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- Seismic Refraction Spread Marine Investigation 2015
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FIGURE 2: GEOPHYSICAL RESULTS & INTERPRETATIONS4

SCALE 1:1000

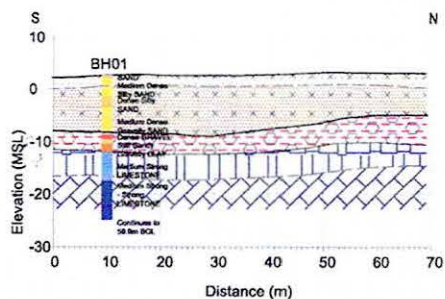
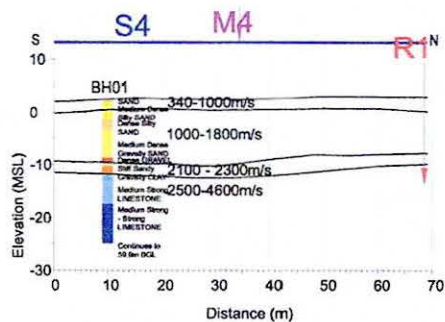
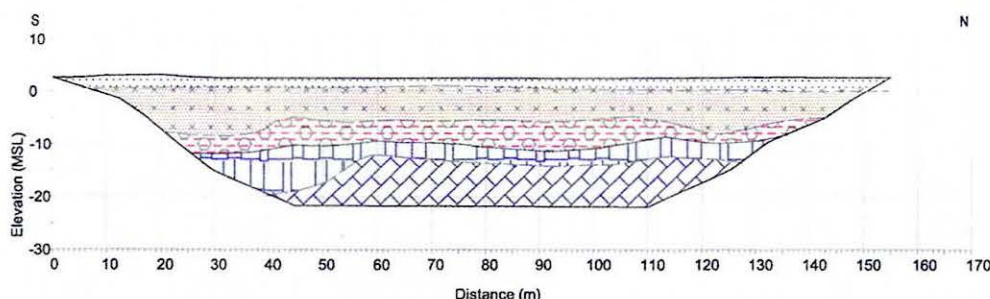
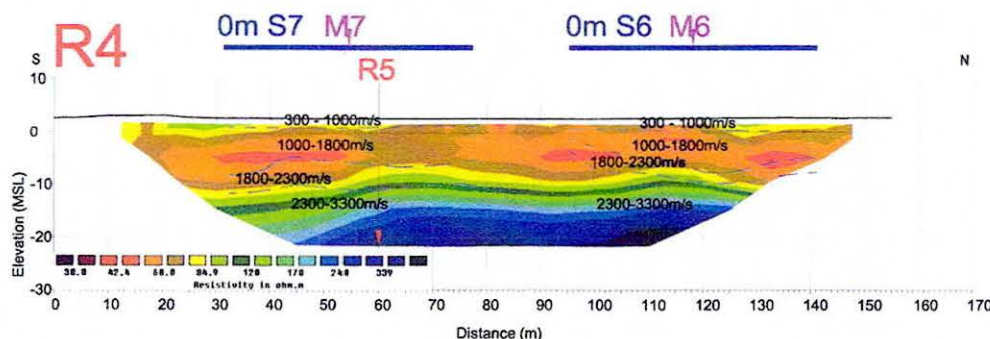


FIGURE 3: GEOPHYSICAL RESULTS & INTERPRETATION R4

SCALE 1:1000



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PROJECT: G.D.P. PORTMARNOCK GOLF COURSE

CLIENT: TOBIN CONSULTING ENGINEERS

DRAWING NO: AG15247_05

SCALE: AS INDICATED @ A3

DATE: 27/04/2015

FIGURE 1: GEOPHYSICAL INVESTIGATION LOCATION R5
SCALE 1:4000

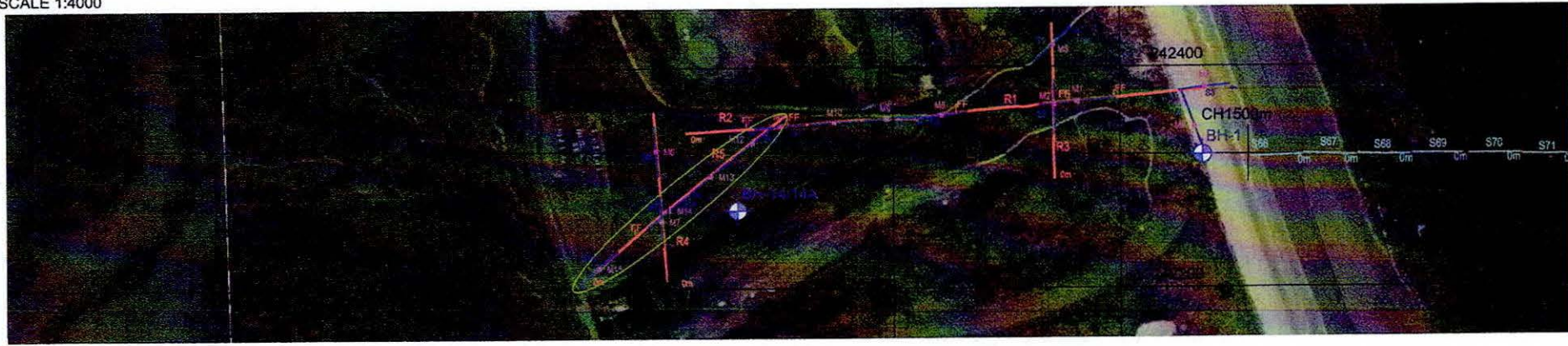
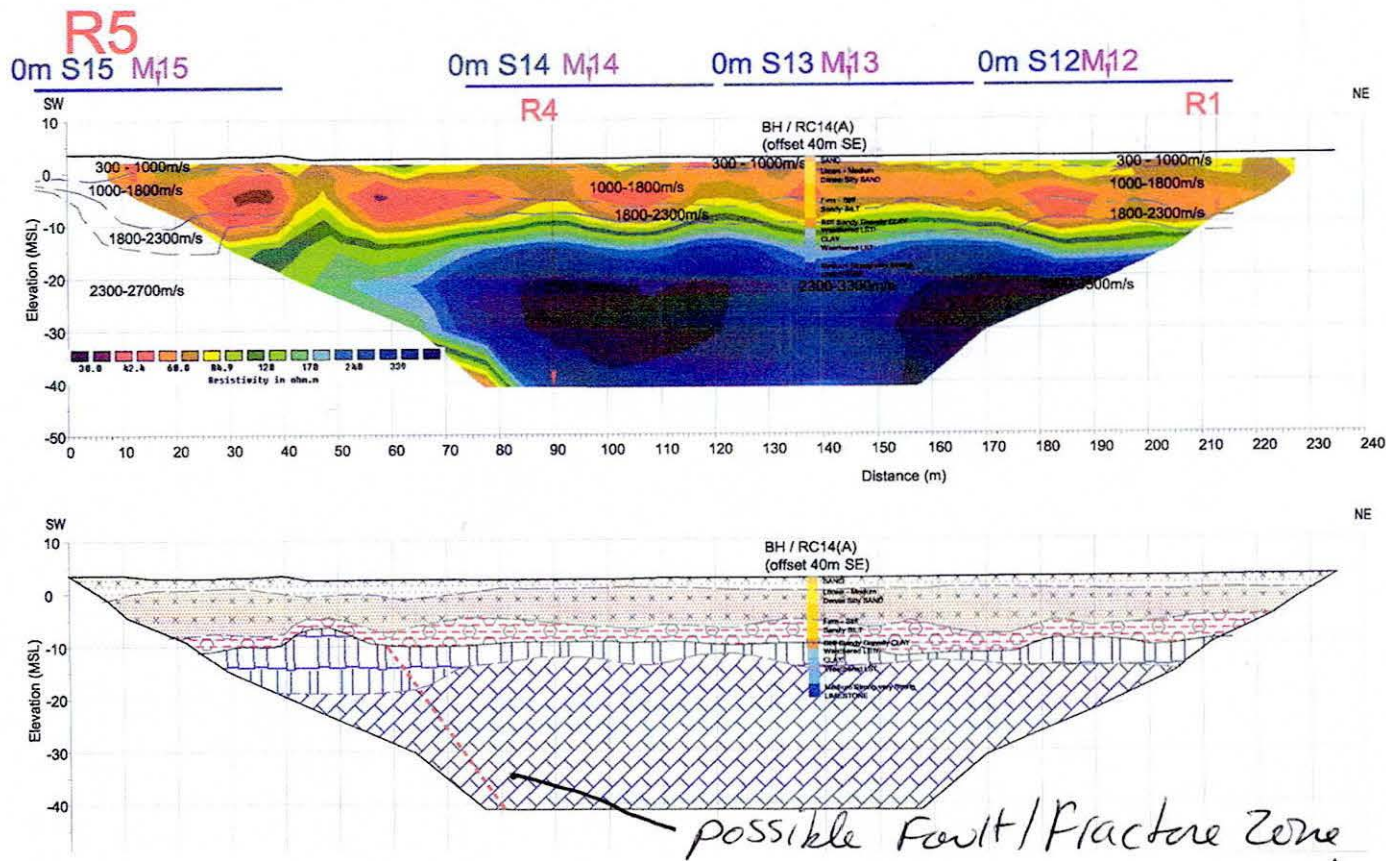


FIGURE 2: GEOPHYSICAL RESULTS & INTERPRETATION R5
SCALE 1:1000



INDEX MAP:

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PROJECT: G.D.D.P. PORTMARNOCK GOLF COURSE
GEOPHYSICAL INVESTIGATION

CLIENT: TOBIN CONSULTING ENGINEERS

DRAWING NO: AGL15247_02

SCALE: AS INDICATED @ A3

DATE: 27/01/2016