



**Report No 52219**

**TATA 200T Bunker - Ground  
Investigation**

**FACTUAL REPORT**

**Carried out for:  
Andrew Scott Ltd**

**August 2020**

**Apex Drilling Services Ltd.**

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**TATA 200T Bunker - Ground Investigation****FACTUAL REPORT****Report No: 52219****Date: August 2020****Employer:**

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## **1 INTRODUCTION**

Apex Drilling Services (APEX) was commissioned by Andrew Scott Ltd to carry out a ground investigation at TATA Steelworks, Margam. The investigation was required to obtain geotechnical and geo-environmental information for the erection of a new raw materials bunker (extension to existing facilities), raised conveyor extension and associated works..

The scope of the investigation, which was specified by Andrew Scott Ltd, comprised Cable Percussion drilling and laboratory testing. The investigation was carried out in accordance with the contract specification, Eurocode 7 and relevant related standards identified below (see also References). The fieldwork was carried out between 29<sup>th</sup> June and 21<sup>st</sup> July 2020.

This report presents the factual records of the fieldwork and laboratory testing.

## **2 THE SITE**

### **2.1 The Site**

The site is located at TATA Margam, as shown in Figure 1, Site Location Plan.

## **3 FIELDWORK**

### **3.1 General**

The fieldwork was carried out in general accordance with BS 5930+A2 (2010), BS EN 1997-2 (2007), BS EN ISO 22475-1 (2006) and BS 10175 (2011).

Standard Penetration Testing was undertaken, the results are presented within the borehole logs.

Whilst undertaking geo-environmental sampling a best practice policy was observed which included using new disposable nitrile gloves for each sample interval, ensuring appropriate sample containers were used, cleaning tools to prevent cross contamination, keeping samples in cool boxes containing ice packs and dispatching samples at the earliest opportunity, complete with chain of custody, to the testing laboratory.

The exploratory hole locations were selected by Andrew Scott Ltd.

The positions of the exploratory holes are shown on the Exploratory Hole Location Plans, Drawing 2, 3 and 4.

### **3.2 Exploratory Holes**

The exploratory hole records are presented in Enclosure A and should be read in conjunction with the Key which is included in that enclosure. The records provide descriptions of the materials encountered in accordance with BS EN ISO 14688-1 (2002) and 14689-1 (2003), for soils and rocks respectively, as amplified by BS 5930+A2 (2010).

The records also give details of the samples taken together with observations made during operations.

## **4      LABORATORY TESTING**

### **4.1      Geoenvironmental Testing**

The testing was scheduled by Andrew Scott Ltd and was carried out using MCERTS accredited testing methods unless otherwise stated. The testing is presented in Enclosure C.

|                              |                                          |
|------------------------------|------------------------------------------|
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| <b>Approved for Issue By</b> | Roger Martin                             |

## REFERENCES

AGS : 2005 : Electronic transfer of geotechnical and geoenvironmental data (Edition 3.1 including addendum May 2005). Association of Geotechnical and Geoenvironmental Specialists.

BRE Special Digest 1 : 2005 : Concrete in aggressive ground. Building Research Establishment.

BS 1377-2: 1990: Methods of test for soils for civil engineering purposes. Classification tests. British Standards Institution.

BS 5930+A2 : 2010 : Code of practice for site investigations (Amendment 2). British Standards Institution.

BS 10175 : 2011 : Code of practice for investigation of potentially contaminated sites. British Standards Institution.

BS 22475-3 : 2011: Geotechnical investigation and testing. Sampling methods and groundwater measurements. British Standards Institution.

BS EN 1997-2 : 2007 : Eurocode 7 - Geotechnical design - Part 2 Ground investigation and testing. British Standards Institution.

BS EN ISO 14688-1 : 2002 : Geotechnical investigation and testing - Identification and classification of soil - Part 1 Identification and description. British Standards Institution.

BS EN ISO 14689-1 : 2003 : Geotechnical investigation and testing - Identification and classification of rock - Part 1 Identification and description. British Standards Institution.

UK Specification for Ground investigation 2<sup>nd</sup> Edition 2012

**ENCLOSURE A**  
**EXPLORATORY HOLE RECORDS**

Exploratory Hole Log Key

Borehole Logs

BH01 to 03

**ENCLOSURE B**  
**LABORATORY TESTING RESULTS**

**ENCLOSURE C**  
**DRAWINGS**

Site Location

Drawing 1

Exploratory Hole Locations

Drawings 2 to 4