

Glasgow Central 31GGC

Project number
60701844

Client
RSSB

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Issued by
Duncan Urquhart

Reason for issue
For Information

Location
Glasgow
Central

Introduction

This note sets out information about the proposed monitoring locations and the requirement of electrical power sockets.

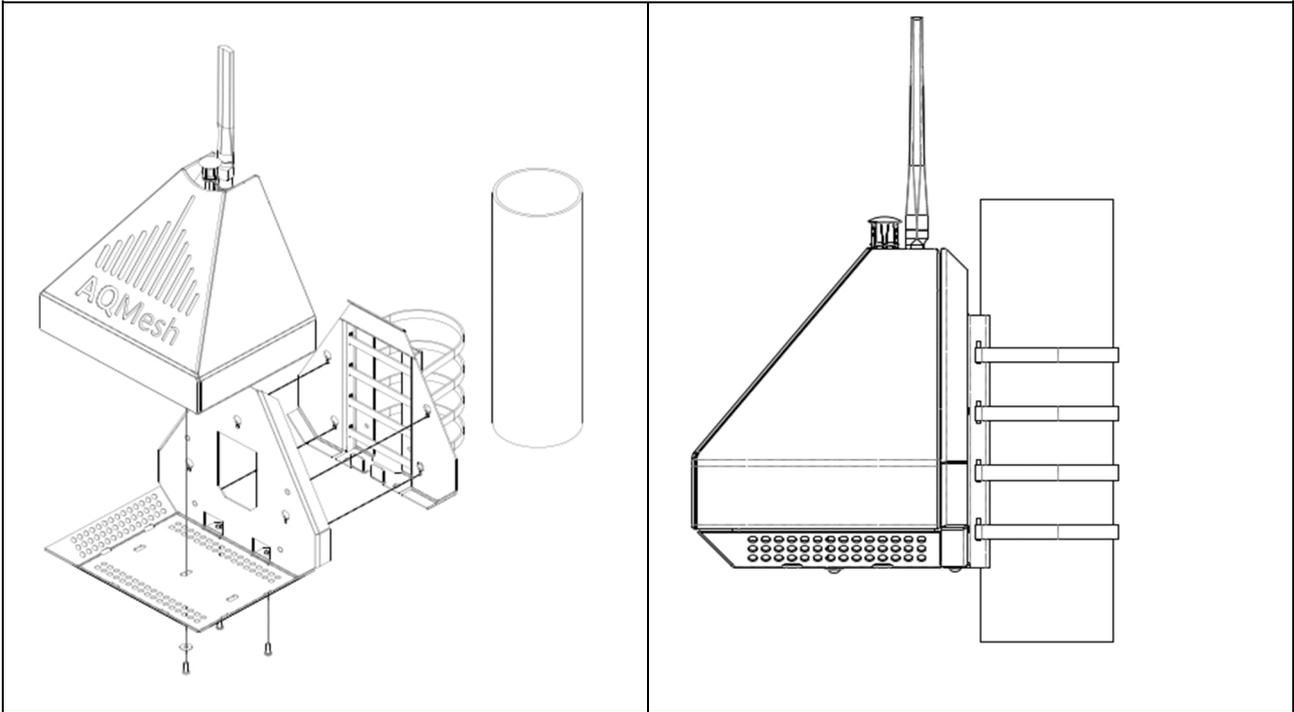
At the proposed monitoring location, a low-cost air quality sensor (Figure 1) would be installed. The sections below describe the proposed location and discusses the practicalities of siting the monitoring equipment.

The low-cost air quality sensors equipment requires a mains power supply (9-24V DC) for continuous operation. The low-cost air quality sensor comprises a unit measuring 220mm (width) x 170mm (depth) x 250mm (height), and an antenna, which extends approximately 180mm from the top of the unit (see Figure 1). The whole assembly weighs approximately 3kg. The monitor can be mounted onto virtually any surface or structure that is strong enough to withstand the load.

Figure 1: Low cost air quality sensor equipment



Figure 2: Mounting Procedure for air quality sensor equipment



Source: AQMesh User Manual v1.2 (2023)

Shortlisted Locations

A proposed suitable location has been identified on the façade of the building at the end of Platform 6.

The location is shown in Figure 2:

Table 1 outlines the main considerations from a practical perspective for this location.

For installation and decommissioning, access equipment will be needed to mount the monitor at the desired height.

It is assumed that station staff would undertake the installation in accordance with an approved RAMS, whereby an area of approximately 2m x 2m would need to be cordoned off to ensure a safe working area for these works to be carried out, recognising the need to avoid encroaching on the trackside edge.

At all other times, the monitoring equipment would not impact upon passenger or staff movement around the station or interfere with any station operations.

Figure 3: Station Platform Plan and proposed site location

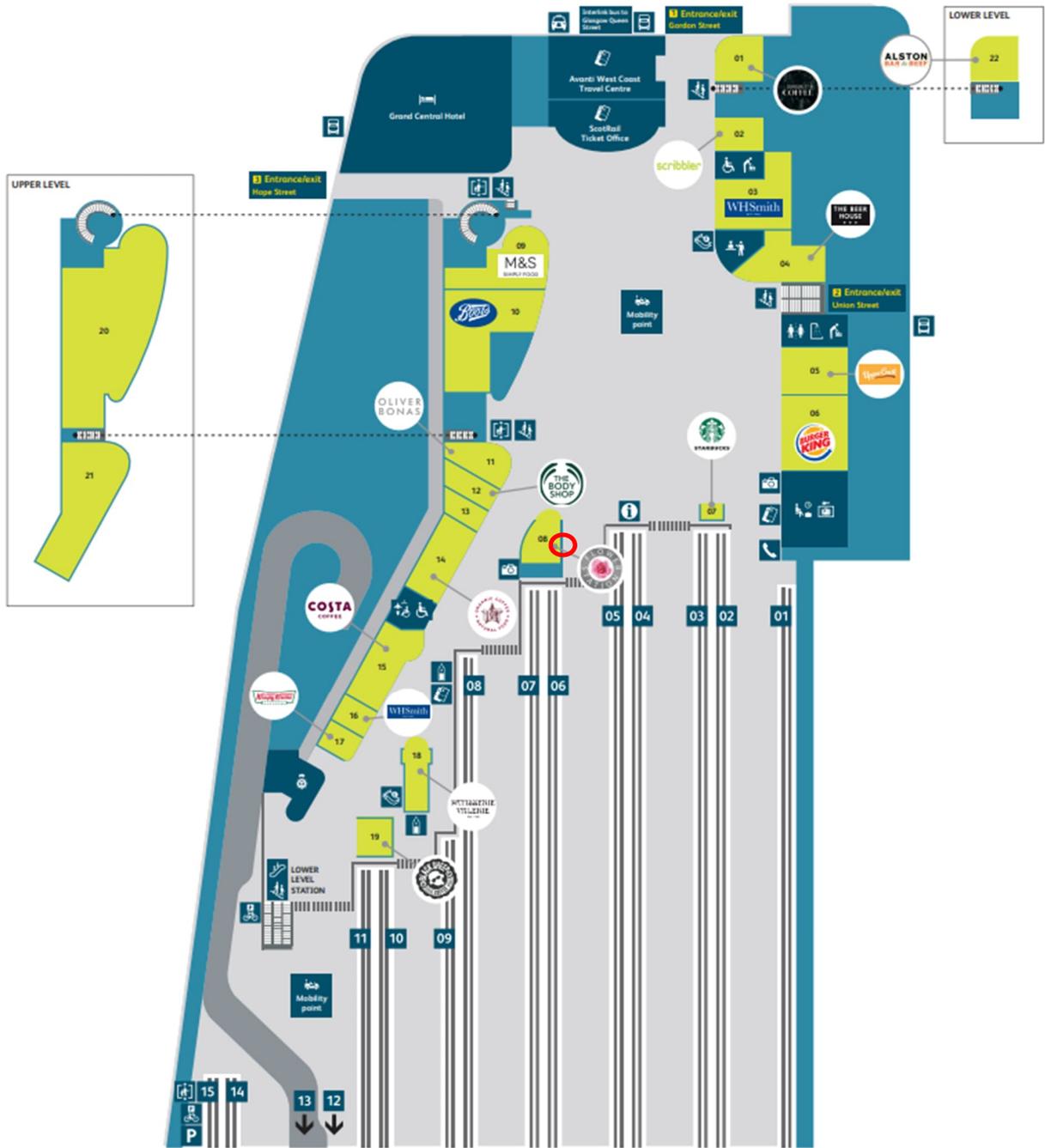


Table 1: Site Location Checklist

Site Name / Location Ref	Perceived risk of vandalism, likelihood of interference in area (Nominal scale 1-10)	Is Site safely accessible?	Approx. distance to nearest source (m)	Dimensions of area of install (target height if on furniture)	Is there existing signage (including if the monitor will block line of sight)	Power Supply Arrangements (current and potential)	Other General Notes / Observations (including installation routes, working at height requirements, potential site staff involvement, etc)
01 Platform	9	Yes	2m	Mounted ~2.5m height on building	No	Spur from inside the building	<p>Monitor would be mounted at height on the side of the Mobility Point building.</p> <p>A new mounting fixture will be drilled into the structure.</p> <p>Power may be sourced from a spur from the inside of the building.</p>

Figure 4: Location 1 - Photo A

View of handrail to which monitor would be attached at platform 3.

