DESIGN AND ACCESS STATEMENT

Installation of an Air Source Heat Pump to 20 Hillside Avenue, Worthing

1 **Introduction**

1.1 This statement is submitted in respect of the householder planning application (Retrospective) for the installation of a Electroheat Plus 31 MKIII air source heat pump (ASHP) made by WaterCo Ltd

2 **Appraisal of the site context – General Assessment**

2.1 The property comprises of a detached two storey house.

2.2 Hillside Avenue is a predominantly residential area comprising of a mixture of various detached properties, both two storey and bungalows.

2.3 The property can be viewed from the main road and has a hard landscaped front garden, side access and a part hard and soft landscaped rear garden.

2.4 The installation of the ASHP is to provide heating to the outdoor swimming pool in the summer months. The pool is closed in winter.

3 **Development**

3.1 The proposal is to install the ASHP to the bottom of rear garden. This replaces a historic gas fired pool boiler.

3.2 The plant room and boiler were situated in the rear of the property on the side adjacent to the boundary of 18 Hillside. Estimated to be sited here for around 25 plus years.

3.3 The plant/pump room and heating system is to be moved to the bottom of the rear garden. This is to the South westerly corner of the garden. This is the furthest point from the adjacent properties that the unit could be sited.

3.4 The ASHP is used during summer months only to heat the outdoor swimming pool on the property. The pool is closed in the winter months.

3.5 The ASHP only operates during daytime hours (Around 4-5 hours a day) when ambient temperatures are at their highest. This improves efficiency of the unit and aligns with the use of the pool. This also minimises the noise impact of the unit as the background ambient noise it at its highest during the daytime.

3.6 The unit chosen has a sound rating of 60Db (Full specifications included within the WaterCo product Information provided).

3.7 The unit is sited on solid concrete foundation.

3.8 Adjacent to the unit, between the nearest adjacent property (Nr.18) and the ASHP, is a boundary wall/fence. The boundary consists of a solid concrete block wall to a height of around 1.25m (above the height of the top of the heat pump) which is then topped by a timber panelled fence. Total height of the boundary wall/fence is around 2.2m

3.9 The distance between the ASHP and the nearest habitable room is around 12m. The nearest room is a single storey extension to the rear of 18 Hillside Avenue.

3.10 A MCS Noise impact assessment has been completed. Please refer to the MCS Noise Assessment included within the planning application documentation.

4 **Materials**

4.1 Please refer to WaterCo Product Information Sheet for proposed unit

5 **Appearance and landscaping**

5.1 We have sought to minimise the visual impact from the neighbouring properties by locating the unit in its proposed position. The unit cannot be seen by adjacent properties or from the main road.

5.2 No existing trees are proposed to be removed.

6 **Conclusion**

6.1 The aim of this Statement is to provide a description of the thought process undertaken during the design of the scheme and the reasoning behind the design decisions taken and it has sought to show how the scheme has responded to and been informed through consideration of the adjacent properties.