

PRESS RELEASE
Rueil-Malmaison, August 30, 2018

Shieldhall Tunnel: VINCI Construction Grands Projets delivers Scotland's longest tunnel

- **A pivotal infrastructure project both for the environment and the country's sanitation network**
- **Leveraging large-scale tunnel-construction expertise to meet urban sanitation needs**

VINCI Construction Grands Projets, in joint venture with its British partner Costain, has just delivered Scotland's longest wastewater tunnel. At 4.7 metres in diameter and 5 kilometres in length, this major structure, valued at £100 million (€115 million), is part of a programme by Scottish Water, the national water-management authority, designed to enhance water quality, preserve the environment, and prevent flooding in and around Glasgow. On July 30, 2018, Roseanna Cunningham, Scotland's Cabinet Secretary for Environment, Climate Change and Land Reform, officially launched the Shieldhall Tunnel.

A major environmentally friendly project for Scotland

This now-completed project delivers major environmental benefits to Greater Glasgow, including a cleaner River Clyde. By providing additional storage capacity of 90,000 cubic metres, which is equivalent to 36 Olympic-sized swimming pools, the new tunnel will relieve the current sanitation network and reduce flooding risk in the region. At the official launch of the Shieldhall Tunnel, Environment Secretary Roseanna Cunningham emphasised the structure's strategic importance: "Communities across Glasgow will benefit for years to come from this latest extraordinary feat of engineering, which lies hidden deep beneath the city." Completion of the Shieldhall Tunnel is a key achievement in the broader programme designed to modernise Glasgow's current wastewater-management network.

PRESS CONTACT

VINCI Construction Grands Projets – Stephanie Malek: +33 (0)1 47 16 30 65

Leveraging leading-edge expertise to ensure successful project delivery

A work team nearly 100-strong was mobilised for a period of two years to achieve this major project. A slurry shield tunnel-boring machine (TBM), named Daisy the Driller by a local schoolboy, was used on the project. This 1,000-tonne, 180-metre-long TBM was launched into a cut-and-cover trench 200 metres long, 6 metres wide large, and 10 metres deep. Construction of the trench required excavating more than 25,000 tonnes of material in a very constricted working area in close proximity to local residents. The TBM was used in a very busy urban setting beneath active railways and former coal quarries that required treatment prior to the TBM's passage.

In all:

- More than 500,000 tonnes of soil, stone, and clay were excavated, and 90% of this material was recycled
- More than 3,200 concrete rings were installed
- 1.5 million work hours were required to complete the project

VINCI Construction Grands Projets, a leading player in tunnel construction and in the United Kingdom

In the United Kingdom, VINCI Construction Grands Projets, a subsidiary of VINCI Construction, provides development support to large cities on their sanitation and sewerage schemes thanks to its expertise in large-scale tunnel design and construction. In January 2016, the Company delivered the 7.7-kilometre Lee Tunnel in London. Currently, it is carrying out the Tideway project in conjunction with partners, including a main 5.5-kilometre tunnel in connection with the Lee Tunnel project. The Shieldhall Tunnel is yet one more achievement in the long list of underground works delivered by VINCI Construction Grands Projets, including the Hallandsås railway tunnels in Sweden, the El Teniente mine-access tunnels in Chile, and metro-construction projects in Hong Kong, Doha in Qatar, and Cairo in Egypt. The Company is also active in France on various lots on the Grand Paris Express project (building Line 15 southbound and extending Line 14 southbound). These achievements add to the expertise that VINCI Construction Grands Projets can deploy on current underground works in the United Kingdom. In addition to handling one of the three lots on the Tideway scheme, the Company is currently managing two mandates as part of the Crossrail network construction project, including building structures at Whitechapel Station and tunnels beneath Liverpool Street Station and Whitechapel Station.

PRESS CONTACT

VINCI Construction Grands Projets – Stephanie Malek: +33 (0)1 47 16 30 65

About VINCI Construction

VINCI Construction, a global player and European leader, is active on five continents, with more than 70,000 employees and almost 700 companies generating 2017 revenue of €14 billion. Structured according to an integrated model, the company has the capacity to intervene over the entire life cycle of a structure (finance, design, construction, maintenance) in eight sectors: buildings, functional structures, transport infrastructure, hydraulic infrastructure, energy, the environment, oil & gas, and mines.

www.vinci-construction.com

PRESS CONTACT

VINCI Construction Grands Projets – Stephanie Malek: +33 (0)1 47 16 30 65