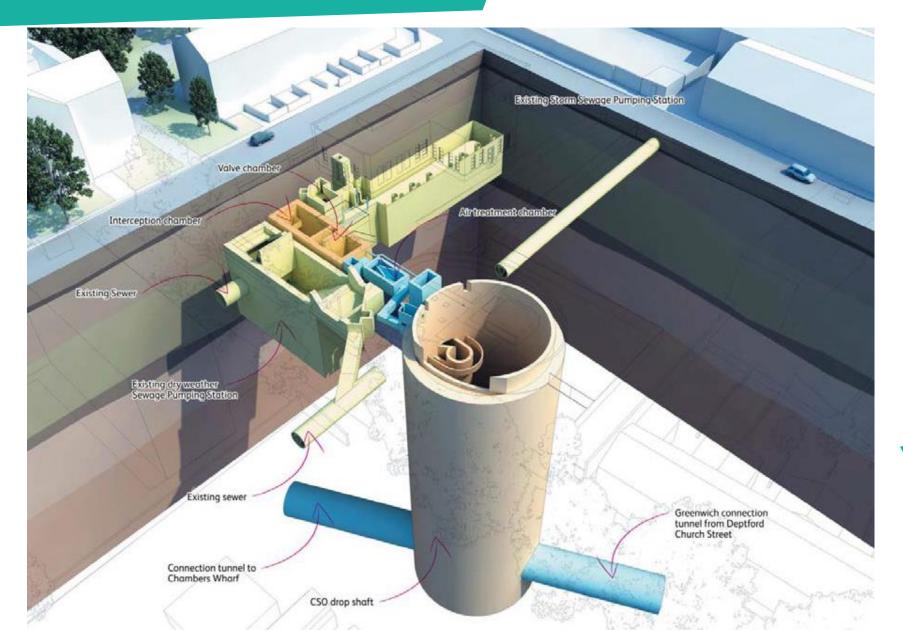
## **EARL PUMPING STATION**

Community Liaison Working Group - Tuesday 20 October 2020





#### What we are building...



- 50m deep drop shaft
- 5m internal diameter tunnel
- 10m deep Combined Sewer Outfall (CSO)
- Various services diversions
- Will reduce annual sewer discharges into the River Thames locally from around 25 to just 4



## **CONSTRUCTION UPDATE**

Tideway

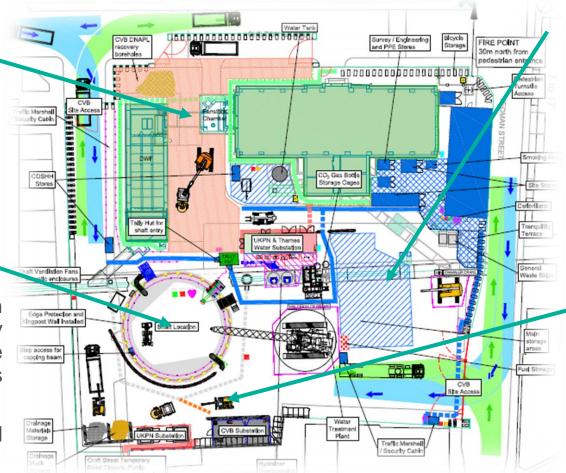
February 2020 to October 2020

#### **CSO**

- Telemetry cables diverted
- Hoarding moved on Chilton Grove
- Platform works ongoing

#### Shaft

- Completed the base slab
- Completed the portals (10m high reinforced concrete chimney inside the shaft to allow for the tunnel boring machine to cross the site)
- Currently constructing internal walls



#### Other

- Muck bin temporarily backfilled but will be reinstated later this year for the CSO works to come.
- Jet Grouting trial (for future CSO works) completed

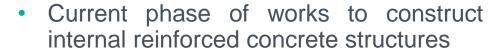
#### Sewer diversion

Phase 1 (around the shaft) of sewer diversion close to completion



## SHAFT WORKS

From October 2020



- The next phase is temporarily backfilling the shaft with a weak grout up to 10m high to allow for the TBM to cross through the shaft when Annie arrives
- At the beginning of 2021, we will be installing a giant 40m long, 3m diameter stainless steel tube in the shaft. This vortex will disrupt flows into the bottom of the shaft
- Following this, the remainder of the shaft secondary lining (internal reinforced concrete chimney) will be completed.





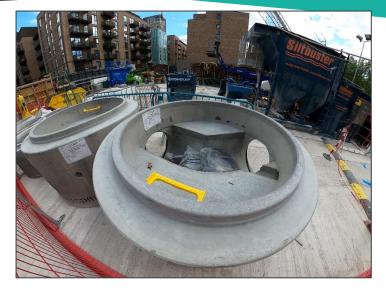


## SEWER / CABLE DIVERSION



- We have nearly completed phase 2 of the sewer diversion (around the shaft).
   We are currently in the process of making that section live
- Phase 2 is the connection of upstream drains/sewers in the east part of the site
- HV/LV cables will then be diverted around the shaft which will allow CSO works to progress further.



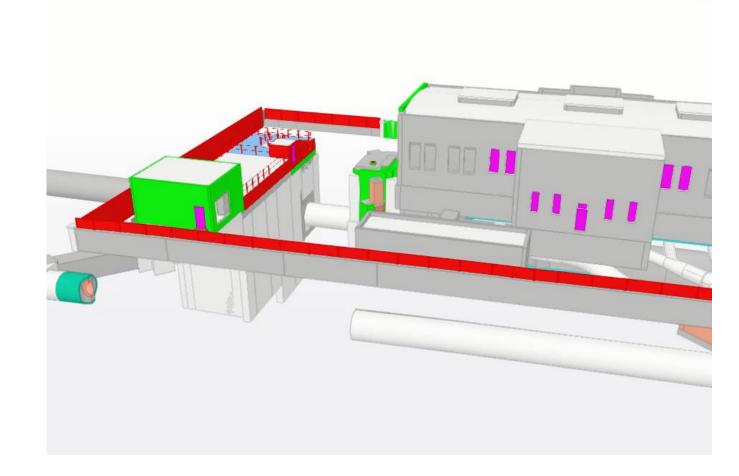




## **COMBINED SEWER OVERFLOW**



- Now the telemetry cables have been diverted we can proceed with the platform construction for future CSO works
- A temporary sewer called a "flume" will also be installed underground to allow the storm pumping station to keep working whilst our works are under way
- Once the platform and the flume works are complete, geotechnical works will start. These construction techniques will create a sealed box in the ground to enable us to safely excavate for the CSO.



## THE NEXT SIX MONTHS



Programme Overview							
	October	November	December	January	February	March	April
Shaft internal structures							
Shaft vortex preparation and installation							
Shaft secondary lining							
Sewer/Cables diversion							
CSO platform works (incl. utilities diversion)							
CSO flume works preparation and installation							
CSO geotechnical works							

Standard Working Hours

Extended & Continuous Working Hours

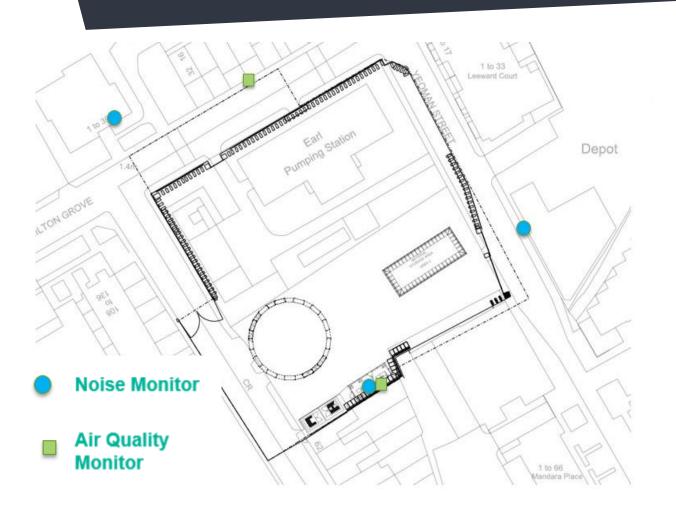
(08:00 - 18:00) Monday to Friday, (08:00 - 13:00) Saturday

(08:00 - 08:00) Monday to Friday, (08:00 - 17:00) Saturday



## **NOISE & AIR QUALITY**





	Noise	Air Quality		
Month	S61 Exceedances	24h PM₁₀Exceedance		
Feb 20	0	0		
Mar 20	1	0		
Apr 20	0	0		
May 20	0	0		
Jun 20	0	0		
Jul 20	0	0		
Aug 20	0	0		
Sept 20	0	0		

#### March Exceedance:

Base Slab Pour works: Overrun due to concrete supply delays and blocked lines.

Lewisham and Southwark were notified of overrun

# NOISE AND VIBRATION MITIGATION Full list will be included in the minutes



#### Measures to reduce Noise and Vibration at EARPS

- Section 61 consents. We apply for council agreement for noise levels during future planned works onsite, in line with DCO requirements.
- Noise monitors on and around site help ensure that noise is managed in line with Section 61 agreement and any exceedances are recorded.
- iii. Noise data is provided to the Local Authority for review and assurance.
- iv. Site noise data is shared and discussed at Community Liaison Working Groups (CLWG)
- Notices detailing changes in site activities and working hours are shared with the local community through email updates and information sheets, as well as at CLWGs.
- vi. Whenever possible, noisy activities are planned to take place during normal working hours.
- vii. Choices of methodology/flechnique for noisy operations are considered, in order to eliminate or reduce noise. Where reasonably practicable, fixed items of construction plant should be electrically powered in preference to diesel or petrol driven.
- viii. Each item of plant will comply with the European Commission Directive 2000/14/EC (Noise Emission by Outdoor Equipment) UK Statutory Instrument (SI) 2001/1701
- ix. Whenever possible, fabrication happens off site.
- Noisy plant will be kept as far away as possible from sensitive areas (and may need localised acoustic and visual screening).
- xi. As far as reasonably practicable, the noise from reversing alarms will be controlled or limited by these techniques:
  - a. The site layout will be designed to minimise vehicles reversing;
  - b. Banksmen will be used to avoid reversing alarms;
  - c. Reversing alarms will incorporate features such as broadband signals to reduce the
- xii. All noise control measures applied to plant and equipment will be maintained in good working order and operated such that noise emissions are minimised, as far as reasonably practicable. Every effort will be made not to use plant, equipment or items fitted with noise control equipment found to be defective, until repaired.
- xiii. Where demolition and other breaking out activities are necessary, consideration will be given to the use of alternatives to percussive or impact breaking equipment/methods.

- xiv. The movement of materials outside of normal working hours will be kept to a minimum and handled in a manner that minimises noise.
- xv. Hoardings or noise barriers will be provided around all worksites.
- xvi. Staff will turn off equipment and plant when not in use.
- xvii. We will handle materials in a manner which minimises noise.
- xviii. Plan the works to use low noise and vibration methodologies wherever possible (eg. use of floor saws, sheet piling designed out etc.)
- xix. Use mobile noise screens at the point of loud works, like concrete breaking, wherever
- xx. Plan works to minimise breaking times, where they are necessary.
- XXI. Try to minimise noise and vibration from concrete breaking through floor sawing the platform into sections in advance, where possible.
- xxii. Minimise the use of idling engines on site
- xxiii. Avoid using vibrating rollers when compacting our working platform (this is generally outside standard practice as it typically takes longer)
- xxiv. All site vehicles are to have less disturbing "broadband" reversing alarms, where possible.
- Where possible, use of wire sawing to dismantle concrete structures, so that they can be removed from site in sections, reducing our requirements for breaking onsite.





## MAKE A DIFFERENCE



**Happy 5<sup>th</sup> Birthday Tideway** 

To mark Tideway's 5<sup>th</sup> birthday, the 'Make a Difference' campaign was launched on 24 August. Tideway colleagues along with friends and families raised thousands of pounds for charity





#### The Tunnel Challenge –

- Raised over £5,000 In just five weeks!
- 14 teams, comprising 64 colleagues from across Tideway, collectively walked, ran, cycled, rowed and swam over 15,020km or 600 lengths of the Tideway Tunnel (in simpler terms - just over 1/3 of the way around the globe!).

## LEGACY THE NEXT GENERATION



### **Volunteering hours**

People - including Skills and Employment

### **Community Relations**

#### **Innovation and Technology**

CVB training case study developed by UCL

## London Youth Rowing (LYR) ACTIVE ROW aims to get children active through indoor and outdoor rowing





#### **Community Investment**

#### **CELEBRATING INTERNATIONAL WOMEN'S DAY**



Tideway East supported a of panel discussions with 120 colleagues and guests to explore the changing culture for women in the construction industry.



STEM BOAT TOUR
BRINGING CLASSROOM TEACHING TO LIFE

## TIDEWAY EAST HIGHLIGHTS



**Skills and Employment Forum October 2020** 

## **Apprentice results:**

Some exceptional results with a 93% and four above 70%. Tunnelling apprentices progressing to final assessment. Some great feedback on their commitment.

#### **Women In Construction:**

Virtual mentoring - A range of staff volunteers were involved to support during lockdown and beyond.

## **Increase in local employment**

#### Governor role:

Two East staff have roles as Chair of Governors supporting local borough schools. Commitment to dealing with COVID shut-down, re-opening and exam arrangements, staff and pupil mental welfare.

LDE UTC in top 1% (UK) for technical results.

## Recruitment reopen:

Tunnelling contractor JGL, liaising directly with East London boroughs, had 30 applications for 2 entry level tunnelling vacancies.



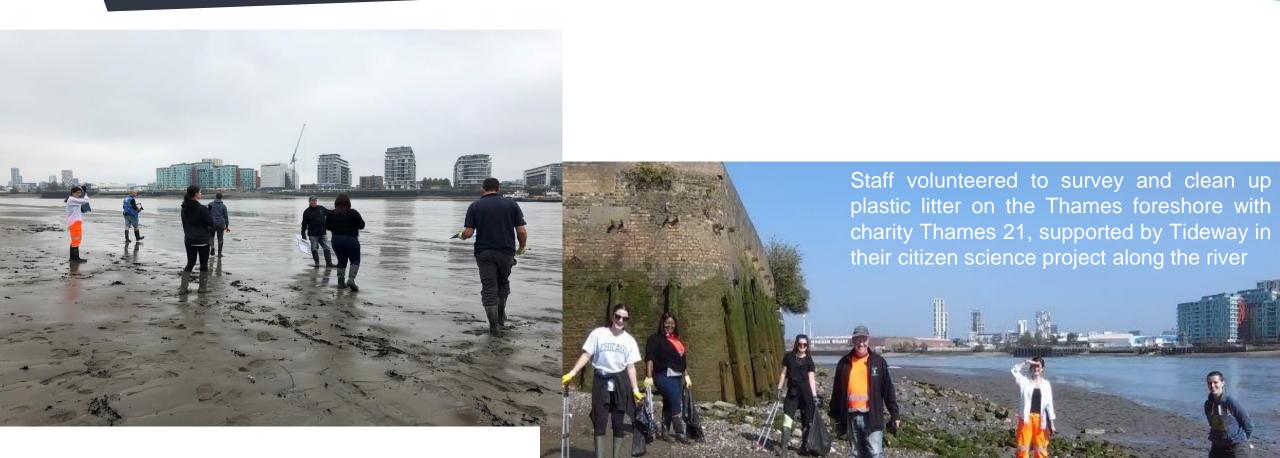






## **THAMES 21 LITTER SURVEY**





## **PLOGGING!**

The word plogging is an English-Swedish combination of jogging and plocka upp, which means "pick up" in Swedish











## EARPS AND THE CCS





#### What is the CCS?

- Independent organization founded to raise standards in the construction industry. Based around:
  - Care about Appearance
  - Respect the Community
  - Protect the Environment
  - Secure everyone's Safety
  - Value their Workforce
  - Inspire true Innovation
- 2 inspections carried out by a CCS inspector this year. Our scores:
  - 46/50
  - 47/50
- A few quotations from the inspection reports



"CVB introduced a monthly meeting to share updates and coordinate works to reduce disturbance to residents and material wastage"

"The information sheets are now sent out monthly recognising the number of residents spending more time working from home due to Covid 19"

"There have been very few complaints and enquiries, all dealt with quickly"

"Windows have been installed on the hoarding for the residents to look into site including low-level construction vehicle shaped windows for children" "H&S and productivity prize-money donated to London taxi drivers children's charity and Cancer Research UK"



# RECONNECTING LONDON WITH THE RIVER THAMES

#SuperSewer

www.tideway.london