



## Mogden Sewage Treatment Works: 2012 updates



## **10 December 2012 - Mogden Upgrade update**

In the run up to Christmas the final phase of Mogden's £140 million upgrade is on track for completion at the end of March next year.

### Christmas working arrangements

To avoid disturbing you during the festive season we do not plan to carry out activities involving heavy machinery between Monday 24 December and Wednesday 2 January.

We will have a small workforce on site between Christmas and the New Year who will continue working on the existing uncovered primary tanks so they can be refurbished, covered and odour controlled. These tanks are away from the site boundary so this work should not cause any disruption. During this period, we will also continue to operate and carry out routine maintenance on parts of the new plant that have recently been brought into service.

Our security arrangements will continue on a 24-hour basis as they have throughout the whole project.

### Embankment update

Our temporary office buildings from the north-west corner of the site have now been completely removed, allowing the final phase of the embankment shaping to get underway. No work on the embankment will be carried out during the Christmas break – the work will continue in the New Year.

We plan to complete the final shaping of the mound so it is ready for planting in early 2013. At this point, we will be introducing a range of native trees including English oak, Scots pine, birch and hornbeam, and shrubs including holly, hazel, blackthorn and hawthorn – encouraging biodiversity and wildlife.

Thank you for bearing with us during this important project which will increase the site's treatment capacity by 50 per cent. This will significantly reduce the need to discharge partially-treated sewage into the River Thames.

## **2 November 2012 - Mogden Upgrade update**

We are now into the final phase of Mogden's £140 million upgrade.

This involves gradually bringing more of the new treatment plant into service and landscaping the site's western embankment.

We are already just weeks away from reducing the embankment to its final height.

Over the coming months, people living nearby are likely to see an increase in earth-moving machinery working close to their properties. This will be particularly noticeable at the northern end of the site – the area previously occupied by our construction offices.

Section by section, we will carefully be shaping the mound. This will then be finished with a layer of good quality topsoil, currently reserved in piles at the foot of the embankment. Unfortunately the



nature of this work will involve some noise and vibration. We are sorry for any disturbance you may experience, and will do our best to minimise this as much as possible.

Early next year, the embankment will be fully shaped and ready for us to start planting a range of native trees such as English oak and hornbeam, and shrubs including holly and hawthorn – encouraging biodiversity and local wildlife.

Meanwhile, over the embankment, the team are gearing up to bring the next set of treatment tanks into operational service.

Thank you for bearing with us during this important project. On completion in March 2013, we will have increased the site's treatment capacity by 50 per cent. This will significantly reduce the need to discharge partially-treated sewage into the River Thames.

## **21 September 2012 - Mogden Upgrade update**

After months of preparation, September saw a major milestone in Mogden's £140m extension.

We have now switched on around half of the new works, including the new inlet area and primary tanks - where solid and heavy particles are removed.

This step has allowed us to start taking the existing uncovered primary tanks on the west side of the works out of service so that they can be upgraded, and then covered to control odour.

We are now gearing up to gradually switch on the remainder of the new works by the end of March 2013. At this point the site's treatment capacity will have been boosted by 50 per cent so it can cope better following heavy rain.

As we get closer to reducing the embankment to its final height by the end of the year, there will be an increase in activity in this area, particularly at the northern end as we remove our construction offices. You may notice some vibration as a result.

We are committed to minimising this as best as we can but we are sorry for any disruption you may experience.

By the end of this month we will be returning to our normal working hours, between 8am and 6pm for the main activities. This follows weeks of working on the embankment until 7pm to recover time lost as a result of this year's unusually wet weather.

Thank you for bearing with us.

## **28 August 2012 - Mogden Upgrade update**

After two years of construction, around half of the new works is now fully built, equipped, tested and ready to be brought into service.

Over the next few weeks wastewater will enter part of the extension for the first time - through the new inlet works and primary tanks, where solid and heavy particles are removed.

This extra capacity will allow us to switch off the existing primary tanks on the west side of the works so we can refurbish and cover them to control odour.



Meanwhile, work to reduce the embankment to its final height by the end of this year and improve the outlook for people living nearby is starting to take shape.

We will shortly begin removing our site offices overlooking properties bordering the north-west corner of the site - near Worton Hall Industrial Estate. This will allow us to advance with landscaping this area.

We are continuing to work hard to recover time lost as a result of the unusually wet weather earlier this summer, which may include working on the embankment until 7pm on weekdays. We apologise for any inconvenience this may cause.

Thank you for bearing with us while we carry out work to improve Mogden, the result of which will reduce the amount of partially-treated sewage that overflows into the River Thames after heavy rain.

### **19 July 2012 - Mogden Upgrade update**

Despite the recent wet weather and the challenges it brings to a large construction site, work to increase Mogden's treatment capacity by 50 per cent remains on track for our March 2013 completion date.

The team continue to carry out the installation of mechanical and electrical equipment to get the extension up and running. With this process now practically complete for the new Inlet Works and Primary Tanks, final inspections are beginning to take place, which is the last step before the commissioning process can begin in earnest for these areas.

Work is now almost complete on the first of two new odour control units. This will be ready to capture and treat the odorous air from the new equipment to be put into service shortly.

One part of the site which has been affected by the recent heavy rain is the reduction of the western embankment – where we are gradually moving the soil stored temporarily on the embankment to fill around the new structures.

We are working hard to recover the lost time in this area so we remain on target to lower the embankment to its final height by the end of this year. At this point we will begin a comprehensive planting project to reintroduce various native species of trees, plants and shrubs to improve the outlook.

Thank you for bearing with us while carry out work to improve Mogden, the result of which will reduce the amount of sewage that overflows into the River Thames after heavy rain.

### **22 June 2012 - Mogden Upgrade update**

As we continue work to increase Mogden's treatment capacity by 50 per cent, the team is busy installing mechanical and electrical equipment, and carrying out rigorous testing on the completed structures.

Testing to ensure the water-tightness of the aeration lanes - where we will pump air into the wastewater to encourage naturally occurring micro organisms to break down the organic matter – is



approximately 50 per cent complete. We have also started installing the walkways and work platforms so that we can start installing the air pipes.

This testing process is also being carried out on the inlet works - where we filter the sewage to remove grit and other large items. The new inlet works has recently been covered and will be linked to the new odour control units. Mechanical testing is also underway here to ensure the new plant is operating effectively.

For all water-testing being carried out we are using treated water from the works, known as final effluent. As the testing and commissioning process has not yet been completed there is currently no sewage flowing through the new extension.

The final settlement tanks have all been constructed and work to install the outlet channels – called 'launder channels' - is well underway. Once completed, this will allow us to ramp up the process of 'backfilling' around

the structures with earth temporarily stored on the western embankment.

Progress in this area has been badly affected by the recent wet weather but we are working hard to try and make up for lost time. We are still on target to complete backfilling works this autumn, lowering the embankment to its final height. At this point we will undertake a comprehensive planting project to reintroduce various trees, plants and shrubs to improve the outlook.

Elsewhere on site, works is now almost complete on the first of two odour control units, while the second unit is well underway.

Thank you for bearing with us while carry out work to improve Mogden, the result of the which, due for completion in March 2013, will reduce the amount of sewage that overflows into the River Thames after heavy rain.

### **18 June 2012 - Primary tank drain down**

We are ready to undertake the planned refurbishment of one of our west side circular primary settlement tanks.

Before the maintenance team can carry out any work, however, we need to empty the tank. We are giving 24 hours notice and plan to drain down the tank tomorrow.

We would like to apologise for any odour that residents may notice as a result of this essential work.

### **23 May 2012 - Mogden Upgrade update**

With less than a year to go before we increase Mogden's treatment capacity by 50 per cent, preparations for the commissioning of the new works are ramping up.

This involves a rigorous testing process, which is currently underway to ensure the new structures are fully watertight and all the new equipment operates correctly before we start to use it.

This process is nearly complete on the new inlet works and primary settlement tanks – where we will remove grit, rags and the heaviest solids from the large volume of sewage that enters the site.



Next in line are the recently completed aeration lanes – where we pump air into the wastewater to encourage naturally occurring micro organisms to break down the organic matter.

In order to conserve as much drinking water as possible we are using treated water from the works, known as final effluent, for the testing process. This final effluent will be reused to test each of the five aeration lanes, cutting water usage by around 80 per cent – equivalent to the daily water use of around 1 million people.

Elsewhere, work to reduce the height of the western embankment is entering its fourth month, with soil being removed at a steady pace as we continue to fill around the recently completed tanks. We are also using final effluent here, to damp down the soil on the western embankment where necessary to minimise dust.

Thank you for bearing with us while carry out work to improve Mogden, which will reduce the amount of sewage that overflows into the River Thames after heavy rain.

### **20 April 2012 - Mogden Upgrade update**

As we look ahead to completion next year, our project to increase capacity at Mogden Sewage Treatment Works by 50 per cent enters a new phase this month.

We are beginning preparation work to commission the first phase of the extension – around half of the new works – which will include the introduction of the new odour control plant.

As with recent months, the majority of activity on site will continue to be around electrical and mechanical installation rather than construction work. This includes a focus on installing electrical cables to power the new equipment, along with rigorous testing and trial-running to ensure it is ready for service.

Work to reduce the height of the western embankment is also ramping up as it enters its third month. We have planted the soil on top of the embankment with grass seed to help knit the soil together, minimising dust levels for our neighbours – something we continue to monitor closely.

Thank you for continuing to bear with us during our work.

### **23 March 2012 - Mogden Upgrade update**

This month marks an important milestone for the Mogden upgrade project, as we are now entering the final year of work to increase the site's treatment capacity by March 2013.

With just months left before all the structures are finally formed, work to provide power to the extension is ramping up.

This will allow us to bring half of the new works into service in May, along with a new odour-control plant.

Work to reduce the height of the embankment is now into its second month, and we are working hard to keep dust down for people living nearby by watering the haul routes in this area. We are very aware of the need to conserve water supplies, particularly in the current drought. We are



therefore dampening the embankment with some of the cleaned water we pump back into the River Thames at the end of the treatment process.

Thank you for bearing with us while we carry out this essential work, which will significantly reduce the amount of sewage that overflows into the Thames after heavy rain.

## **16 February 2012 - Mogden Upgrade update**

We are continuing to work hard to boost Mogden's treatment capacity by 50 per cent by March 2013, ensuring the works achieves high treatment standards and minimising the use of the storm tanks, even after heavy rainfall.

The focus of our work continues to be on mechanical and electrical installation, as most of the civil engineering work - such as building foundations and tanks – is now complete.

Last week we took delivery of two new 40-tonne transformers. In conjunction with the renewable energy that we generate on site, these will provide enough electricity to power the entire works, and are an important element of our work to upgrade the electrical infrastructure at Mogden.

This month sees the start of work to reduce the western embankment to its final height , which will be carried out in phases until completion in the autumn.

As a result, people living nearby are likely to notice diggers and dump trucks working in this area. The machinery will remove the soil temporarily stored on the embankment, and then use this to fill around the completed structures.

Meanwhile, work to build the last few treatment tanks is also nearing completion, and will be finished by the spring.

Working hours for the main construction activities will continue to be limited to between 8am and 6pm, Monday to Friday.

Thank you for bearing with us while we carry out this essential work. We apologise for any disruption it may cause and remain committed to keeping this to an absolute minimum.

## **16 January 2012 - Mogden Upgrade update**

January is an important month for the team improving Mogden Sewage Treatment Works, as it heralds the start of our final year of construction and installation work.

We continue to work hard to increase the site's capacity by 50 per cent by March next year, which will reduce the amount of sewage that overflows into the River Thames after heavy rain.

The focus of our work in the next month will be pushing ahead with the mechanical and electrical work for the new inlet works, where sewage enters the site and is screened to remove large objects. We will also be working on the new odour control plant, and some of the new primary tanks, where heavy particles are removed from the sewage.

Together, these elements will be commissioned in the spring as part of the first phase of putting the site into full operational service.



You may have noticed recent work to install the chimney of the odour control plant, located at the northern end of the site. This will mostly be hidden from view once we have completed work on the embankment and associated planting.

Our workforce will shortly start removing the earth temporarily placed on the mound, meaning the embankment will be back to its original height by the end of this year.

Thank you for bearing with us while we carry out this essential work. We apologise for any inconvenience it may cause.

We would like to take this opportunity to wish all our neighbours the very best for 2012.