



Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 26th January 2012	
Attendees: Gerry McCarthy, LB Hounslow Andrew Gerogiades, Thames Water	
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 1 and 2 were in use and full following heavy rainfall in the area.</p> <p>Storm water tanks 3a and b were not in operation as new amajet pumps are being fitted to the tanks and are in the process of being commissioned.</p> <p>Storm water tanks 4 and 5 were in use and are covered and odour controlled.</p> <p>Storm water tanks 6a, 6b, 7a and 7b were in use and full of effluent. Amajets 1 and 3 of tanks 7a were not operating and amajet 1 of tanks 7b was not operating.</p> <p>Tanks 8a and 8b were also in use.</p> <p>The effluent in tanks 1a, 1b, 2a, 2b, 6a, 6b, 7a, 7b, 8a and 8b were all</p>	

being returned for primary treatment.

Odour monitors

Odour levels had been generally below the current trigger level of 0.015ppm for more than 20 minutes in the last week though there have been a number of peaks in excess of the trigger level on the East side monitors during the last week all of which had been for short periods of time and are likely to be explained by the storm water tanks being filled, emptied and filled again during the last week.

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 14.10) were low, and below the trigger level of 0.015ppm.

Monitor 1	0.005 ppm
Monitor 2	0.002 ppm
Monitor 3	0.001 ppm
Monitor 4	0.000 ppm
Monitor 5	0.004 ppm
Monitor 6	0.007 ppm
Monitor 7	0.010 ppm
Monitor 8	0.004 ppm
Monitor 9	0.004 ppm
Monitor 10	0.004 ppm
Monitor 11	0.006 ppm
Monitor 12	0.003 ppm
Monitor 13	0.001 ppm

Complaints

The Council received no odour complaints in the previous week.

<p>Sludge Dip Records 26/1/2012 W6613m³ and E15722m³ = 22335m³ 25/1/2012 W4756m³ and E18813m³ = 23569m³ 24/1/2012 W7059m³ and E20261m³ = 27320m³ 23/1/2012 W9112m³ and E21709m³ = 30821m³</p> <p>The levels for all of the days are in breach of the current OMP trigger levels in respect of the west side rectangular primary settlement tanks which are 3,000m³ for these tanks and were in breach of the OMP trigger level for the west side circular primary settlement tanks on 23rd January which is 250m³. There are no limits for the East Side Primary Settlement tanks as these are covered and odour controlled.</p> <p>Thames is required by the terms of the abatement notice agreed in 2005 to notify LBH on the next working day of any such exceedance and notify LBH within three working days of any appropriate remedial measure taken within three days, which it has done.</p>	
<p>Digesters</p> <p>Digesters 11 and 18 are out of service for maintenance.</p> <p>Digester 9 was gassing through the annular seal at the time of the inspection which was odorous and TW advised that measures would be taken to draw off additional gas from the digester dome to reduce this.</p> <p>There was evidence of a spillage from digester 15 and TW advised that this would be cleaned up immediately as a team had been despatched to clean it up. There was also evidence of a spillage from digester 10 which TW had advised had been cleaned up earlier in the</p>	

<p>day.</p> <p>TW also advised that anti-foaming agent continues to be manually administered as a precautionary measure twice a day and additionally if necessary.</p>	
<p>West side primary settlement tanks (PST)</p> <p>PST 16 on the west side of the works is still out of service. PST 16 is being covered as part of the site extension works but will be out of service until the tanks are covered. PST 14 is now back in service.</p> <p>Thames advised that additional manual de sludging of the rectangular PSTs is being carried out to reduce the build up of scum and to prevent gassing of these tanks. There was a noticeable build up of scum on tanks 13a, 13b, 14b and 15a with evidence of gassing from all tanks. There was an even more noticeable build up of sludge on tank 15b. Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing. The desludging mechanism was half way along the tanks and please explain why it had stopped at this location.</p> <p>Hosing down of scum on PST 10 will need to continue to be undertaken, as a rubber scraper and tension cable need to be replaced on this and the tank needs to be taken out of service and drained down to enable this to be completed. TW advised this would be undertaken now that PST 14 is back in service.</p>	
<p>GENERAL</p> <p>Final Settlement Tanks East Side of Works</p> <p>The 8 circular tanks previously used as PSTs are now being used as</p>	

final tanks at full capacity. Measures are being undertaken 24/7 with a contractor to prevent the build up of scum on these tanks. Tank 76 has been drained down for maintenance and is out of service.

East Side Screen House

The right hand side door has a missing glass pane and TW advised that this is due to be replaced in the near future. The door is also not closing properly and needs to be repaired to ensure that it is sealed shut when closed to prevent odours escaping from the screen house.

Skips

There was one covered empty six yard skip, and one uncovered full fifteen yard skip on the East side and Thames advised that this would be covered immediately.

On the West side there was 1 empty uncovered fifteen-yard skip, one washpactor skip and two covered six-yard skips in the area.

Pasteurisation Plant

The pasteurisation plant continues to be out of service.

Imported Sludge

No imported sludge has been received into the site this week.

Section 106 agreement

There have been no breaches of the s106 agreement in the last week.

Odour control unit (ocu) performance monitoring (251/12)				* Odour Management Plant version 2.0 action level outlet values
This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant	
Main pumping station outlet	0.001 Average	0.2	Yes	
East Ocu	0.04	0.05	Yes	
West Ocu	0.04	0.05	Yes	
Sludge reception outlet	0.05 Average	0.8	Yes	
Thickening plant outlet	0.55 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.25#	0.6	Yes	

Portable Jerome measurement

Please also explain why the sludge reception inlet is showing a level of – 62.5ppm,which was also the same level showing on the SCADA system