



LB Hounslow Mogden STW Site Inspection

Date of inspection	5 January 2012
Attendees	I Inman and P Bownds, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>All of the storm water tanks were full with one exception. Tanks 1A, 1B, 2A & 2B were going to storm. Tanks 3A & 3B were empty except for surface rain water. Tanks 4A, 4B, 5A & 5B were all full. Effluent from tanks 6A, 6B, 7A, 7B, 8A & 8B was being returned for treatment prior to re-filling.</p> <p>There was no noticeable odour from the effluent in the storm tanks. TW advised they are currently experiencing high input flows.</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>No further comment. This was due to high rainfall in our catchment area.</p>
<p>Odour monitors</p> <p>Odour levels had been below the current trigger level of 0.015ppm for more than 20 minutes in the last week.</p> <p>The site log recorded showed no adverse peaks since the beginning of the period 01/01/2012.</p> <p>The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13:39) were low, and below the trigger level of 0.015ppm.</p>	<p>No further comment.</p> <p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p>

Monitor 1	0.004	ppm
Monitor 2	0.003	ppm
Monitor 3	0.001	ppm
Monitor 4	*	ppm
Monitor 5	0.005	ppm
Monitor 6	0.009	ppm
Monitor 7	0.005	ppm
Monitor 8	0.008	ppm
Monitor 9	0.004	ppm
Monitor 10	0.004	ppm
Monitor 11	0.006	ppm
Monitor 12	0.003	ppm
Monitor 13	0.002	ppm

Monitors 9 & 11 had been bought back into service just before Christmas.
 * Monitor 4 had last showed a reading at 5.45am on the day of inspection, TW checking.

No further comment.
 This was a temporary issue and Monitor 4 was back in service by Saturday 7 January.

Complaints

The Council has received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

<p>Sludge Dip Records 02/01/2012 W3519m³ and E18451m³ = 21970m³ 03/01/2012 W3894m³ and E18451m³ = 22345m³ 04/01/2012 W3519m³ and E17365m³ = 20884m³</p> <p>The levels for each day are in breach of the current odour management plan (OMP) trigger levels in respect of the west side primary settlement tanks which are 3,000m³ for these tanks. The limit set for the west side circular primary settlement tanks is 250m³ and is being complied with. 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>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</p>
<p>Digesters</p> <p>Digester 10 had a small amount of sludge that had spilled over the edge. TW advised that the sludge spillage would be cleaned up.</p> <p>Digester 11 is drained down for engineering refurbishment. Digester 13 is drained down for engineering refurbishment.</p> <p>The seals on all other digesters were good with no excessive gassing or bubbling taking place.</p> <p>The odour monitors around the digesters showed only low levels of odour for the past few days which support this observation.</p> <p>Thames also advised that anti-foaming agent continues to be manually administered as a precautionary measure twice a day and additionally if necessary.</p>	<p>As LBH note, this was a minor spill, nonetheless it was cleaned up later that afternoon.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>

<p>West side primary settlement tanks (PST)</p> <p>PST 16 will remain out of service until it is covered and returned to service as part of the extension work.</p> <p>PST 14 was currently out of service due to a sensor problem.</p> <p>PSTs 13 & 15 were operational and showed no signs of surface scum, there was no noticeable bad odour.</p> <p>Thames advised that additional manual de sludging of the rectangular PSTs is being carried out to prevent gassing of these tanks. Please continue with manual desludging to ensure no build up of odorous sludge.</p>	<p>No further comment.</p> <p>This work is scheduled to be finished within the next few days.</p> <p>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</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 final tanks at full capacity.</p> <p>Tank 7 is currently drained down and out of operation due to a scraper fault and no date for its return to operation is currently available.</p> <p>Measures are being undertaken 24/7 with a contractor to prevent the build up of scum on these tanks.</p> <p>East Side Screen House</p> <p>All screens were working at the time of inspection and no doors or windows were open.</p> <p>The right hand side door has a missing glass pane and TW advised that this is due to be replaced in the near future. This door also needs replacing</p>	<p>No further comment.</p> <p>We will advise LBH as soon as we have a date for the completion of this work.</p> <p>No further comment.</p> <p>No further comment.</p> <p>A job has been raised with our buildings maintenance contractors for the missing pane of glass.</p>

<p>West Side Screens</p> <p>Screen 7 is currently out of service and awaiting contractor availability and parts manufacture.</p> <p>Skips</p> <p>On the East side there were three small skips (all were covered) and full of grit. On the West side there were two small skips (both were covered) one was full of grit and one half full of rag. There was no noticeable odour and TW advised all skips are due to be cleared before the end of the week; a skip lorry was on site during the inspection.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>No further comment.</p> <p>This was actioned, as advised.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																				
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	Average			
Thickening plant outlet	0.393 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.25#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	12 January 2012
Attendees	Gerry McCarthy, LB Hounslow Operational Plant Manager, 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 but amajet 3 of tank 1b was not operating.</p> <p>Storm water tank 3a and b were not in operation as new amajet pumps are being fitted to the tanks. There was a covering of rainwater on the surface of these tanks, which was not odorous.</p> <p>Storm water tanks 4 and 5 were in use and are covered and odour controlled.</p> <p>Storm water tanks 6a and 6b were empty but need flushing with hopper 3 of tank 6a being full and requires emptying. Hopper 1 of tank 6b was half full with sludge on the surface of the hopper and requires emptying. Hoppers 2 and 3 of this tank were one third full and will require emptying in due course to prevent the likelihood of odour occurring.</p> <p>Tanks 7a, 7b and 8a were in use.</p> <p>Tank 8b was empty but hoppers 1 and 3 of this tank were full and require emptying.</p> <p>Please ensure that any hoppers full of water are over pumped and any remaining sludge on the base of the tanks is cleared once the tanks have</p>	<p>We will investigate why this Amajet is not currently operational.</p> <p>No further comment.</p> <p>No further comment.</p> <p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>No further comment.</p> <p>Please see above.</p> <p>Please see above.</p>

<p>been returned.</p> <p>There was no noticeable odour from the effluent in the storm tanks.</p> <p>There was a covering of sludge on the storm channel serving storm tanks 1-4 and this area was odorous.</p>	<p>No further comment.</p> <p>The storm channel was back flushed to remove the sludge.</p>
<p>Odour monitors</p> <p>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 a been a number of peaks The East side monitor showed a number of peaks during the week though none lasted longer than ten minutes.</p> <p>There was a peak on the East side monitor on 8th January and the site log for the evening shift showed that odour was noted due to the storm water tanks being emptied.</p> <p>On 9th January there was a spike on the East side monitor and the site log for the day shift showed that the storm water tanks were being returned to the primary settlement tanks for treatment.</p> <p>On 10th January there were spikes on the East side monitor and the site log showed that this was due to storm water tank activity.</p> <p>On 11th January there were spikes during the day shift on monitors 7 and 8 and the site log showed that odour was detected on the road drains coming from the digesters and digester 13 was being cleaned.</p> <p>There was a further spike on the East side monitor between 00.32 and 00.42 on 12th January and the site showed that the storm water tanks were being emptied at this time with the tanks requiring flushing.</p> <p>Monitors 6-13 (around the digesters) did not show any readings between approximately midnight on 8th January and mid day on 10th January and this may be due to a defect on the system and please investigate this.</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>This data has since been recovered.</p>

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13:3) were low, and below the trigger level of 0.015ppm.

Monitor 1	0.004 ppm
Monitor 2	0.002 ppm
Monitor 3	0.000 ppm
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Monitor 5	0.005 ppm
Monitor 6	0.008 ppm
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Monitor 9	0.003 ppm
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Monitor 12	0.003 ppm
Monitor 13	0.003 ppm

No further comment.

Complaints

The Council received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

<p>Sludge Dip Records 09/1/2012 W3239m³ and E22795m³ = 26034m³ 10/1/2012 W3594m³ and E24242m³ = 27836m³ 11/1/2012 W4365m³ and E24605m³ = 28970m³ 12/1/2012 W5884m³ and E24605m³ = 30489m³</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. The limit set for the west side circular primary settlement tanks is 250m³ and is being complied with. 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>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</p>
<p>Digesters</p> <p>Digester 11 and 13 are out of service for maintenance.</p> <p>Digester 9 was gassing through the annular seal at the time of the inspection 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 10 and TW advised that this would be cleaned up immediately as a team had been despatched to clean it up.</p> <p>There was also evidence of a spillage from digester 18 and there was a noticeable smell of pig slurry from this digester, which indicates that there may be a problem with the PH of the digested sludge, and this needs investigation.</p> <p>TW also advised that anti-foaming agent continues to be manually</p>	<p>No further comment.</p> <p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 9 and additional doses of antifoam were applied.</p> <p>This minor spillage, along with the one observed around digester 18, was cleaned later that afternoon.</p> <p>Noted.</p> <p>No further comment.</p>

<p>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 sludge on tanks 13a, 13b, 15a and 15b with evidence of gassing from all tanks. Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</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>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</p> <p>The hosing down of PST 10 has continued, as advised. We will schedule the repairs required now 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 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.</p> <p>East Side Screen House</p> <p>The right hand side door has a missing glass pane and TW advised that this is due to be replaced in the near future. This door also needs replacing</p>	<p>No further comment.</p> <p>A job has been raised with our buildings maintenance contractors for the missing pane of glass.</p>

<p>Skips</p> <p>There was one covered six yard skip and fifteen yard skip on the East side which Thames advised would be removed before the weekend, with one empty six yard skip on this side also.</p> <p>On the West side there was 1 empty uncovered fifteen-yard skip, three washpactor skips and two covered six-yard skips.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>These skips were removed from site, as advised.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																								
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Thickening plant outlet	0.5	0.6	Yes																						

	Average			
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.37#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	19 January 2012
Attendees	Gerry McCarthy, LB Hounslow Operational Plant Manager, 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. There was a covering of rainwater on the surface of these tanks, which was not odorous.</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.</p> <p>Tanks 8a and 8b were empty but tank 8a was odorous and requires flushing. Hoppers 1 and 3 of this tank were full and require emptying. Hoppers 1,2 and 3 of tank 8b required emptying.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p>
<p>Odour monitors</p> <p>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 a been a number of peaks none of which lasted twenty minutes. The East side monitor showed a number of peaks during the week though none lasted longer than ten minutes.</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log. As LBH note, on these occasions, however, the trigger level was not breached.</p>

The site log for the day shift on 13th January showed that there were some odours on site from the thickening plant. The site log for the evening shift showed that there were spikes on monitors one and two with odour being detected from the storm tanks which were in use with the exception of tanks 3a, 3b and 8b. There were spikes on monitors 6,7 and 8 but for short periods of time but no odours were found upon inspection with the exception of a sludge odour from drains around the picket fence thickeners which are located on the west side of the works.

No further comment.

On 16th January on the evening shift there was a very high spike on the east side monitor and the contents of storm tanks one and six were being returned to the primary settlement tanks which may explain the cause of the very large spike. There were a number of spikes on monitor 8 of short duration on the same evening but the source was not identified.

No further comment.

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13:3) were low, and below the trigger level of 0.015ppm.

No further comment.

Monitor 1	0.009 ppm
Monitor 2	0.002 ppm
Monitor 3	0.000 ppm
Monitor 4	0.000 ppm
Monitor 5	0.004 ppm
Monitor 6	0.006 ppm
Monitor 7	0.005 ppm
Monitor 8	0.004 ppm
Monitor 9	0.003 ppm
Monitor 10	0.004 ppm
Monitor 11	0.006 ppm
Monitor 12	0.003 ppm
Monitor 13	0.002 ppm

<p>Complaints</p> <p>The Council received no odour complaints in the previous week.</p>	<p>Thames Water received a complaint from Elizabeth Gardens about odour noticed on Thursday 12 January around 9.30pm. The east and north boundary monitors recorded low readings of 0.006 ppm and 0.003 ppm respectively. The storm tanks were being flushed that day, which combined with the predominantly westerly wind, may have been the source of the odour detected.</p>
<p>Sludge Dip Records</p> <p>19/1/2012 W6084m³ and E22071m³ = 28155m³ 18/1/2012 W5358m³ and E24242m³ = 29239m³ 17/1/2012 W7552m³ and E23881m³ = 31433m³ 16/1/2012 W6114m³ and E23519m³ = 29633m³</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 for the west side circular primary settlement tanks 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>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</p>
<p>Digesters</p> <p>Digester 11,13 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 digesters10 and 15 and TW advised</p>	<p>No further comment.</p> <p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 9 and additional doses of antifoam were applied.</p> <p>This was actioned as advised.</p>

<p>that this would be cleaned up immediately as a team had been despatched to clean it up.</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>No further comment.</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, 15a and 15b with evidence of gassing from all tanks. There was a noticeable build up of sludge on tank 14a. Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</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>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</p> <p>The hosing down of PST 10 has continued, as advised. We will schedule the repairs required now 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 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 is out of service.</p>	<p>No further comment.</p>

<p>East Side Screen House</p> <p>The right hand side door has a missing glass pane and TW advised that this is due to be replaced in the near future.</p> <p>Skips</p> <p>There was one covered six yard skip, one uncovered empty six yard and one uncovered empty fifteen yard skip on the East side which Thames advised would be removed before the weekend.</p> <p>On the West side there was 1 empty uncovered fifteen-yard skip, one washpactor skip and two covered six-yard skips in the area.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>A job has been raised with our buildings maintenance contractors for the missing pane of glass.</p> <p>This was actioned as advised.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																
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Main pumping station outlet	0.015 Average	0.2	Yes														
East Ocu	0.009#	0.05	Yes														
West Ocu	0.04	0.05	Yes														

Sludge reception outlet	0.15 Average	0.8	Yes	
Thickening plant outlet	0.36 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.12#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	26 January 2012
Attendees	Gerry McCarthy, LB Hounslow Operational Plant Manager, 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 being returned for primary treatment.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>We will investigate why these Amajets are not currently operational.</p> <p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p>
Odour monitors	
<p>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 a been a</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p>

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

We agree with LBH's conclusion.

No further comment.

Complaints

The Council received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

<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>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</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 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>No further comment.</p> <p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 9 and additional doses of antifoam were applied.</p> <p>This was actioned as advised.</p> <p>No further comment.</p> <p>No further comment.</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, 14a 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>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</p> <p>This is due to an ICA fault, and is scheduled to be fixed in early February.</p> <p>The hosing down of PST 10 has continued, as advised. We will schedule the repairs required now 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 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.</p> <p>East Side Screen House</p> <p>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.</p>	<p>No further comment.</p> <p>A job has been raised with our buildings maintenance contractors for the missing pane of glass and repair of the door itself.</p>

<p>Skips</p> <p>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.</p> <p>On the West side there was 1 empty uncovered fifteen-yard skip, one washpactor skip and two covered six-yard skips in the area.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>This was actioned as advised, although there was no odour.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																								
<p>Odour control unit (ocu) performance monitoring (251/12)</p> <table border="1" data-bbox="190 981 1102 1324"> <thead> <tr> <th>This is the most recent set of data available. Plant</th> <th>Reading (ppm)</th> <th>Action Level (ppm)*</th> <th>Compliant</th> </tr> </thead> <tbody> <tr> <td>Main pumping station outlet</td> <td>0.001 Average</td> <td>0.2</td> <td>Yes</td> </tr> <tr> <td>East Ocu</td> <td>0.04</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>West Ocu</td> <td>0.04</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>Sludge reception outlet</td> <td>0.05 Average</td> <td>0.8</td> <td>Yes</td> </tr> <tr> <td>Thickening plant outlet</td> <td>0.55</td> <td>0.6</td> <td>Yes</td> </tr> </tbody> </table>	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	0.6	Yes	<ul style="list-style-type: none"> Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
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Sludge reception outlet	0.05 Average	0.8	Yes																						
Thickening plant outlet	0.55	0.6	Yes																						

	Average		
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

This is only the measure into the OCU and has no effect on what is leaving the H₂S stack. The sludge reception site has been out of service for a number of months and is not under any load.



LB Hounslow Mogden STW Site Inspection

Date of inspection	2 February 2012
Attendees	Anthony Robinson & Jane Boyd, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 4 and 5 were in use, these are covered and odour controlled. All other tanks were empty with the exception of tanks 7A and B which were being flushed with final effluent.</p> <p>Tanks 3A, 3B, 8A and 8B were out of use due to maintenance being carried out on the amajets. TW advised that they should both be operational soon.</p> <p>The following hoppers need draining / flushing through: Tank 1B hopper 1, tank 2A hopper 3, tank 2B hopper 3, 6B hopper 1.</p> <p>Tanks 2A, 2B, 8A and 8B needed flushing through to clear sludge.</p> <p>Amajet 1 on tank 7B was not operating effectively.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>We will investigate why these Amajets are not currently operational.</p>
<p>Odour monitors</p> <p>Odour levels had been below the current trigger level of 0.015ppm for more than 20 minutes in the last week. There have been a few short spikes but not for longer than 20 minutes.</p> <p>The site odour log reported short spikes on monitor 7 on 27th January at</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p>

22:30 and 02:00. The likely cause was reported as 'digester gas level 29m, engine turned over to gas'.

All odour monitors were flat lining from 29th - 31st January at 22:30 when the fault was resolved by resetting the system.

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13.46) were low, and below the trigger level of 0.015ppm.

Monitor 1	0.006	ppm
Monitor 2	0.004	ppm
Monitor 3	0.001	ppm
Monitor 4	0.002	ppm
Monitor 5	0.004	ppm
Monitor 6	0.011	ppm
Monitor 7	0.009	ppm
Monitor 8	0.013	ppm
Monitor 9	0.008	ppm
Monitor 10	0.004	ppm
Monitor 11	0.006	ppm
Monitor 12	0.003	ppm
Monitor 13	0.007	ppm

No further comment.

No further comment.

Complaints

The Council received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

<p>Sludge Dip Records 02/02/2012 W4084m³ and E21347m³ = 25431m³ 01/02/2012 W4155m³ and E23157m³ = 27312m³ 31/01/2012 W4105m³ and E23157m³ = 27262m³ 27/01/2012 W4360m³ and E18451m³ = 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.</p> <p>The level for the west side circular primary settlement tanks on 2nd February of 495 m³ was in breach of the OMP trigger level of 250 m³. 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>No further comment.</p> <p>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</p>
<p>Digesters</p> <p>Digesters 11, 13 and 18 were out of service for maintenance. 18 still contained sludge and was being flushed out with water, some localised odour from this tank was noted. Maintenance was being carried out to valves on top of various tanks, this was progressing without the need to take the tanks out of service.</p> <p>Seals on all digesters inspected were good with no indication of gassing. There was no evidence of any sludge spillage from any of the digesters. The level of the domes on all digesters was low (except digesters 5 and 18).</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>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>

<p>West side primary settlement tanks (PST)</p> <p>PST 16 on the west side of the works is still out of service. This tank is being covered as part of the site extension works and will be out of service until then.</p> <p>The scraper of tank 15B was stuck in the middle of the tank, this was also noted in last week's inspection. Please explain why the scraper has stopped at this location and whether the scraper needs repairing.</p> <p>Tank 13A, 13B, 14A and 14B had a build up of scum on the surface. Tanks 15A and 15B had very little surface scum.</p> <p>Thames advised that manual de sludging of the rectangular PSTs is being carried out each morning to reduce the build up of scum and prevent gassing.</p> <p>Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</p>	<p>No further comment.</p> <p>This is due to an ICA fault, and is scheduled to be fixed in early this month.</p> <p>No further comment.</p> <p>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</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 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.</p> <p>East Side Screen House</p> <p>The right hand side door still has a missing glass pane and does not close, TW advised that a contractor has now been appointed to replace the doors along with a set of doors in the power house. This is estimated to take 14 days.</p>	<p>No further comment.</p> <p>No further comment.</p>

<p>Skips</p> <p>There were 3 standard empty skips and 1 large full covered skip on the East side.</p> <p>On the west side there were 2 large empty skips in addition to the 3 skips attached to the wash compactors.</p> <p>TW advised that that grit and rags from the remainder of the site are now deposited in the inlet works.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																								
<p>Odour control unit (ocu) performance monitoring (01/02/12)</p> <table border="1" data-bbox="190 1013 1097 1316"> <thead> <tr> <th>This is the most recent set of data available. Plant</th> <th>Reading (ppm)</th> <th>Action Level (ppm)*</th> <th>Compliant</th> </tr> </thead> <tbody> <tr> <td>Main pumping station outlet</td> <td>0</td> <td>0.2</td> <td>Yes</td> </tr> <tr> <td>East Ocu</td> <td>0.016#</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>West Ocu</td> <td>0.01</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>Sludge reception outlet</td> <td>0.045</td> <td>0.8</td> <td>Yes</td> </tr> <tr> <td>Thickening plant outlet</td> <td>0.35</td> <td>0.6</td> <td>Yes</td> </tr> </tbody> </table>	This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant	Main pumping station outlet	0	0.2	Yes	East Ocu	0.016#	0.05	Yes	West Ocu	0.01	0.05	Yes	Sludge reception outlet	0.045	0.8	Yes	Thickening plant outlet	0.35	0.6	Yes	<p>No further comment.</p>
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Sludge reception outlet	0.045	0.8	Yes																						
Thickening plant outlet	0.35	0.6	Yes																						

	Average		
Pasteurisation plant outlet	Not operating		N/A
Transfer PS Outlet	0.15#	0.6	Yes
# Portable Jerome measurement			
* Odour Management Plant version 2.0 action level outlet values			



LB Hounslow Mogden STW Site Inspection

Date of inspection	9 February 2012
Attendees	Anthony Robinson & Jane Boyd, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>All storm water tanks were in use and over half full. All Amajets were working with one exception, Amajet 1 on tank 7B was not working effectively, TW advised this was being looked at.</p> <p>The new amajets on tanks 3A and 3B were operational, these have now been signed off although this is the first time they have been immersed in raw effluent.</p> <p>Please ensure any remaining sludge is cleared once the contents of the tanks is returned to the works for treatment. Also ensure that any sludge or grit is cleared from hoppers as soon as possible.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p>
<p>Odour monitors</p> <p>Odour levels had been below the current trigger level of 0.015ppm for more than 20 minutes in the last week. A few short spikes above 0.015ppm occurred on 2nd, 3rd and 4th February but not for longer than 20 minutes.</p> <p>The site odour log reported spikes on monitor 8 on 2nd February PM with short duration, it also noted that monitor 6 was showing corrupt values, the fault was</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p>

reported. On 3rd February the PM log notes 'spikes on monitor 9 from 16:00 – bells on the digesters were high, problems with engines EA 3 & 4. Upped loads on EA1 and 2 to bring dome heights down'.

The AM log for 4th February notes 'some spikes on monitor 6, a sludge spillage from digester 15 – day works called to clean up'.

LBH looked at the odour levels recorded on the SCADA system for the past 7 days. Spikes were noted on 7th Feb on monitor 8 at 19:03 and 19:07, these were very brief. Spikes were also noted on 6th February. These are in addition to those recorded on the site odour log.

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13.51) were low, and below the trigger level of 0.015ppm.

Monitor 1	0.004	ppm
Monitor 2	0.004	ppm
Monitor 3	0.001	ppm
Monitor 4	0.000	ppm
Monitor 5	0.004	ppm
Monitor 6	0.014	ppm
Monitor 7	0.009	ppm
Monitor 8	0.010	ppm
Monitor 9	0.005	ppm
Monitor 10	0.004	ppm
Monitor 11	0.006	ppm
Monitor 12	0.003	ppm
Monitor 13	0.005	ppm

This was actioned, as noted in the odour log.

No further comment.

No further comment.

Complaints

The Council received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

Sludge Dip Records

Date	West Total (m ³)	East Total (m ³)	Overall Total (m ³)
06/02/12	4522.5	22071	26593.5
07/02/12	4310	22795	27105
08/02/12	6258	16022	22280
09/02/12	8555	20985	23192

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.

The levels for the west side circular primary settlement tanks on 6th and 7th February were in breach of the OMP trigger level of 250m³. There are no limits for the East Side Primary Settlement tanks as these are covered and odour controlled.

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.

No further comment.

No further comment.

We can confirm that we notified LBH as the terms of the abatement notice require.

Digesters

Digesters 9 and 13 were out of service for maintenance. There was evidence of minor sludge spillages around digesters 15, 16 and major sludge spillage around digester 12 which had not been cleaned up. Thames advised this would be cleared as soon as possible and arrangements were made for this at the time of inspection. Digester 9 was gassing significantly.

The seals on the remainder of the digesters were generally good. The level of the domes varied with some digesters having a relatively high level, particularly digesters 10 and 15.

This was actioned, as advised.

Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 9 and additional doses of antifoam were applied.

No further comment.

<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>No further comment.</p>
<p>West side primary settlement tanks (PST)</p> <p>PST 16 is still out of service and is being covered as part of the site extension works and will be out of service until then.</p> <p>The scraper of tank 15B was still stuck in the middle of the tank, this was also noted in the previous 2 inspections. TW advised that the scraper has been cutting out half way and needs to be restarted manually, ICA will be looking into the fault. In the mean time any surface sludge is being broken up with a high pressure hose, there was evidence of this during the inspection although there was still a moderate level of surface scum and some gassing.</p> <p>Tank 13A, 13B, 14A, and 14B and had a limited amount scum on the surface. Thames advised that manual de sludging of the rectangular PSTs is being carried out each morning to reduce the build up of scum and prevent gassing.</p> <p>Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</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 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.</p> <p>East Side Screen House</p> <p>The glass pane on the right hand side door has been temporarily repaired</p>	<p>No further comment.</p> <p>No further comment.</p>

although the door still doesn't close properly. TW advised that the doors will be replaced in due course.

Skips

There were 2 standard empty skips and 1 large full covered skip on the East side.

On the west side there were 2 large empty skips and 1 small full covered skip.

TW advised that that grit and rags from the remainder of the site are now deposited in the inlet works, this will prevent the East side skips area becoming soiled and potentially odorous.

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.

No further comment.

No further comment.

No further comment.

No further comment.

No further comment.

No further comment.

Odour control unit (ocu) performance monitoring (09/02/12)

This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant
Main pumping station outlet	0.0 Average	0.2	Yes
East Ocu	0.1	0.05	Yes
West Ocu	0.01	0.05	Yes

No further comment.

Sludge reception outlet	0.04 Average	0.8	Yes	
Thickening plant outlet	0.47 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.13#	0.6	Yes	
# Portable Jerome measurement				
* Odour Management Plant version 2.0 action level outlet values				



LB Hounslow Mogden STW Site Inspection

Date of inspection	16 February 2012
Attendees	Gerry McCarthy, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 1a and 1b were empty though hopper 1 of tank 1b was full and covered with sludge on the surface of the hopper and required emptying with hoppers 2 and three of the same tank being two thirds and half full respectively and also requiring emptying though not as urgently as hopper one.</p> <p>Storm water tanks 3a and b were in the process of being flushed out.</p> <p>Storm water tanks 4 and 5 were in use and are covered and odour controlled.</p> <p>Storm water tanks 6a and 6b were in use.</p> <p>Storm water tanks 7a and 7b were empty though tank 7b required flushing and the hoppers of this tank also required emptying.</p> <p>Storm water tanks 8a and 8b were in use.</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>Please see above.</p> <p>No further comment.</p>
<p>Odour monitors</p> <p>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 a been a number of peaks in excess of the trigger level on the East side monitors</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p>

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 13.43) were low, and below the trigger level of 0.015ppm.

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

We agree with LBH's conclusion.

No further comment.

Complaints

The Council received no odour complaints in the previous week.

Thames Water did not receive any odour complaints either during this time.

<p>Sludge Dip Records 16/2/2012 W3895m³ and E20623m³ = 24518m³ 15/2/2012 W6194m³ and E16665m³ = 22859m³ 14/2/2012 W4646m³ and E19537m³ = 24183m³</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. The sludge stock levels were compliant for the OMP trigger level for the west side circular primary settlement tanks on all of these days, 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>No further comment.</p> <p>We can confirm that we notified LBH as the terms of the abatement notice require.</p>
<p>Digesters</p> <p>Digesters 13 and 18 are out of service for maintenance though there was a noticeable odour of pig slurry around digester 18, which was localised.</p> <p>Digester 9 and 11 were gassing through the annular seal at the time of the inspection and were odorous. TW advised that measures would be taken to draw off additional gas from the digester domes to reduce this.</p> <p>There was evidence of a spillage from digester 10 and TW advised that this would be cleaned up once a team had been despatched to clean it up.</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>We will investigate the source of this localised odour.</p> <p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 9 and 11 and additional doses of antifoam were applied.</p> <p>This was actioned, as advised.</p> <p>No further comment.</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 and work has commenced on this.</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 build up of scum on tanks 13a, 13b and 14b with evidence of gassing from all of these tanks. Please continue with manual desludging to ensure there is no build up of sludge and to reduce gassing.</p> <p>Thames had issued an odour notification on 15th February advising that the scraper to west side rectangular primary settlement tanks had developed a fault and required repair. The tanks had to be emptied before the necessary repairs had been carried out and the repairs were needed to tank 15b though 15a had also to be drained down to facilitate the repairs. The necessary repairs were completed by the time the inspection had been undertaken and it is anticipated that the tank will be back in service by 17th February.</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 as soon as it is practicable to do so.</p>	<p>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued.</p> <p>No further comment.</p> <p>This was actioned, as advised.</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 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.</p>	<p>No further comment.</p>

<p>East Side Screen House</p> <p>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.</p> <p>Skips</p> <p>There were two covered empty six yard skips, one covered six-yard skip and one covered full fifteen-yard skip on the East side skip area.</p> <p>On the West side there was 1 empty uncovered fifteen-yard skip, one washpactor skip and one covered six-yard skip in the area.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>We will continue to update LBH on the progress of this job.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>
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Odour control unit (ocu) performance monitoring (15/2//12)				<ul style="list-style-type: none"> • Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant	
Main pumping station outlet	0.000 Average	0.2	Yes	
East Ocu	0.04	0.05	Yes	
West Ocu	0.01	0.05	Yes	
Sludge reception outlet	0.03 Average	0.8	Yes	
Thickening plant outlet	0.3 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.19#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	23 February 2012
Attendees	A Robinson and I Inman, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 1a and 1b were empty and all hoppers of 1b were full. Sludge was present on the bottom of both tanks and needed cleaning.</p> <p>Storm water tanks 2a and 2b were empty and hopper 3 of 2a was full. Sludge was present on the bottom of both tanks and needed cleaning.</p> <p>Storm water tanks 3a and 3b were empty. Some sludge was present on the bottom of both tanks at the hopper end and needed cleaning.</p> <p>Storm water tanks 4a and 4b were being filled.</p> <p>Storm water tanks 5a and 5b were being filled.</p> <p>Storm water tanks 6a and 6b were being back filled. Amajets 1 & 2 of tank 6b appeared not to be working.</p> <p>Storm water tanks 7a and 7b were in use and approximately half full.</p> <p>Storm water tanks 8a and 8b were in use and approximately half full. Amajet 3 in tank 8a and Amajet 2 in tank 8b appeared not to be working.</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>Please see above.</p> <p>No further comment.</p> <p>No further comment.</p> <p>The amajets are on timers and start and stop automatically, as required; however, we are investigating whether there was another reason why at the time of the inspection these amajets were not working.</p> <p>No further comment.</p> <p>Please see above.</p>

Odour monitors

No odour levels had been above the current trigger level of 0.015ppm for more than 20 minutes in the last week, although there have been several short duration spikes in excess of the trigger level on the North and East side monitors on Saturday 18th when the storm tanks were filling.

Monitor-9 showed some peaks on Sunday 19th (am) when Digesters 9 & 11 was gassing off.

Monitor-8 showed a short duration spike above the trigger level on Tuesday 21st (am) but no odours were found when investigated by TW staff.

Monitor-7 showed short duration spikes above the trigger level on Wednesday 22nd between 06.00-09.00, however no odours were found when investigated by TW staff.

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13.59) were low, and below the trigger level of 0.015ppm.

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

As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.

Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines.

No further comment.

No further comment.

No further comment.

<p>Complaints</p> <p>On Wed 22nd February the Council received an e-mail complaint via the MRAG, originating from a resident of Elmer Gardens and referring to incidents of odour on Sun 19th & Mon 20th of February in the area of Worton Road at around 7.45 and again on Tuesday 21st February in the area of Mogden Lane during the afternoon.</p>	<p>Thames Water also received and responded to this complaint.</p>
<p>Sludge Dip Records</p> <p>20/2/2012 W2768m³ and E20261m³ = 23029m³ 21/2/2012 W2768m³ and E20623m³ = 23391m³ 22/2/2012 W2392m³ and E21347m³ = 23739m³ 23/2/2012 W2087m³ and E20985m³ = 23072m³</p> <p>The sludge records for the above four days are compliant with the current Odour Management Plan (OMP).</p> <p>The sludge stock levels were compliant for the OMP trigger level for the west side circular primary settlement tanks on all of these days, 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>No further comment.</p> <p>No further comment.</p> <p>Notification is not required when we have compliant sludge stocks.</p>
<p>Digesters</p> <p>Digesters 13 was gassing and Digester 11 was gassing and spitting heavily. TW advised that measures would be taken to draw off additional gas from the digester domes to reduce this, TW also advised that the resulting spillage around Digester 11 would be cleaned up once a team was available to do so.</p> <p>TW also advised that anti-foaming agent continues to be manually</p>	<p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 11 and 13 and additional doses of antifoam were applied. This was actioned, as advised.</p> <p>No further comment.</p>

<p>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 and work has commenced on this.</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 large build up of scum on tanks 13a, 13b, 14a, 14b, 15a & 15b with evidence of gassing from all of these tanks. Manual desludging was taking place on tanks 15a & 15b during the inspection and a manual scrape of tank 15b was also taking place. The surface sludge level on all tanks at the time of inspection was unacceptable.</p> <p>PST 11 had a heavy layer of scum covering approximately one third of its surface area.</p>	<p>No further comment.</p> <p>Manual desludging of these tanks continued and we also hosed down the surface sludge to break it up.</p> <p>This was also hosed down to break up the layer of scum.</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 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.</p> <p>East Side Screen House</p> <p>The glass pane on the right hand side door has been temporarily repaired although the door still doesn't close properly. TW advised that the doors will be replaced in due course.</p>	<p>No further comment.</p> <p>We will continue to update LBH on the progress of this job; however, the screens inside the building are odour controlled and so, although we will progress the job as soon as we are able, this issue is not giving rise to odour.</p>

<p>Skips</p> <p>On the West side there was one small covered skip and two large empty skips.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																																
<p>Odour control unit (ocu) performance monitoring (23/2//12)</p> <table border="1" data-bbox="190 826 1102 1295"> <thead> <tr> <th>This is the most recent set of data available. Plant</th> <th>Reading (ppm)</th> <th>Action Level (ppm)*</th> <th>Compliant</th> </tr> </thead> <tbody> <tr> <td>Main pumping station outlet</td> <td>0.000 Average</td> <td>0.2</td> <td>Yes</td> </tr> <tr> <td>East Ocu</td> <td>0.006#</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>West Ocu</td> <td>0.01</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>Sludge reception outlet</td> <td>0.04 Average</td> <td>0.8</td> <td>Yes</td> </tr> <tr> <td>Thickening plant outlet</td> <td>0.48 Average</td> <td>0.6</td> <td>Yes</td> </tr> <tr> <td>Pasteurisation plant outlet</td> <td>Not operating</td> <td></td> <td>N/A</td> </tr> <tr> <td>Transfer PS Outlet</td> <td>0.15#</td> <td>0.6</td> <td>Yes</td> </tr> </tbody> </table>	This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant	Main pumping station outlet	0.000 Average	0.2	Yes	East Ocu	0.006#	0.05	Yes	West Ocu	0.01	0.05	Yes	Sludge reception outlet	0.04 Average	0.8	Yes	Thickening plant outlet	0.48 Average	0.6	Yes	Pasteurisation plant outlet	Not operating		N/A	Transfer PS Outlet	0.15#	0.6	Yes	<ul style="list-style-type: none"> • Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
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Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	1 March 2012
Attendees	Gerry McCarthy, LB Hounslow Operational Team Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>Storm water tanks 1a and 1b were empty though storm water tank 1a requires flushing. The hoppers to tank 1a were satisfactory though hopper 1 of tank 1b was full and covered with sludge on the surface of the hopper and required emptying with hoppers two and three of the same tank being two thirds and half full respectively and also requiring emptying though not as urgently as hopper one.</p> <p>Storm water tank 2a was in the use and in the process of being emptied and tank 2b was in use and the effluent in the tank was odorous. Tank 2b requires emptying as a matter of priority.</p> <p>Storm water tanks 3a and 3b were empty though the new amajets had not fully cleaned the surface of both tanks and these require flushing. The hoppers to both of these tanks require over pumping.</p> <p>Storm water tanks 4 and 5 were in use and are covered and odour controlled.</p> <p>Storm water tanks 6a and 6b were in use.</p> <p>Storm water tanks 7a and 7b were in use though amajets one and three of tank 7b were not operating</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>Please see above.</p> <p>Please see above.</p> <p>No further comment.</p> <p>No further comment.</p> <p>The amajets are on timers and start and stop automatically, as required; however, we are investigating whether there was another reason why at the time of the inspection these amajets were not working.</p>

<p>Storm water tanks 8a and 8b were in use with amajets one and three of tank 8a not operating with the same amajets of tank 8b not working.</p>	<p>Please see above.</p>																												
<p>Odour monitors</p> <p>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 a been a number of peaks in excess of the trigger level on a number of monitors during the last week but for short periods of time and are likely to be explained by the storm water tanks being in operation and odour from the digester area in respect of monitors 7,8 and 9.</p> <p>The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13.43) were low, and below the trigger level of 0.015ppm.</p> <table border="1" data-bbox="190 735 591 1184"> <tr><td>Monitor 1</td><td>0.006 ppm</td></tr> <tr><td>Monitor 2</td><td>0.004 ppm</td></tr> <tr><td>Monitor 3</td><td>0.001 ppm</td></tr> <tr><td>Monitor 4</td><td>0.003 ppm</td></tr> <tr><td>Monitor 5</td><td>0.005 ppm</td></tr> <tr><td>Monitor 6</td><td>0.001 ppm</td></tr> <tr><td>Monitor 7</td><td>0.007 ppm</td></tr> <tr><td>Monitor 8</td><td>0.009 ppm</td></tr> <tr><td>Monitor 9</td><td>0.004 ppm</td></tr> <tr><td>Monitor 10</td><td>0.006 ppm</td></tr> <tr><td>Monitor 11</td><td>0.006 ppm</td></tr> <tr><td>Monitor 12</td><td>0.003 ppm</td></tr> <tr><td>Monitor 13</td><td>0.004 ppm</td></tr> <tr><td></td><td></td></tr> </table>	Monitor 1	0.006 ppm	Monitor 2	0.004 ppm	Monitor 3	0.001 ppm	Monitor 4	0.003 ppm	Monitor 5	0.005 ppm	Monitor 6	0.001 ppm	Monitor 7	0.007 ppm	Monitor 8	0.009 ppm	Monitor 9	0.004 ppm	Monitor 10	0.006 ppm	Monitor 11	0.006 ppm	Monitor 12	0.003 ppm	Monitor 13	0.004 ppm			<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>We agree with LBH's conclusion.</p> <p>No further comment.</p>
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<p>Complaints</p> <p>The Council received one complaint via MRAG in the previous week where a resident of Erncroft Way, Twickenham complained of odour but did not give a specific time or date though the e-mail was sent on 26th February and it is</p>	<p>Thames Water also received and responded to this complaint.</p>																												

<p>assumed it relates to 25th February.</p> <p>The site log for 25th February showed that there were no problems on the day shift but on the evening shift there was a spike on monitor 1 and the storm water tanks were being returned for primary treatment. Monitors 7,8 and 9 were spiking throughout the evening shift though no odours were detected upon investigation.</p> <p>On 26th February monitor 8 spiked in the afternoon with a maximum of 0.029ppm H₂S for five minutes though no odour was found upon investigation. On the evening shift monitor 7 spiked at approximately 6.00pm but this was of short duration. Monitors 7 and 8 spiked at approximately 18.00 with monitor 7 spiking throughout the shift though no abnormal odours were found upon investigation. This peaks on these monitors are likely to be due to odour from the digesters.</p>	<p>No further comment.</p>
<p>Sludge Dip Records 01/3/2012 W2838m³ and E17108m³ = 19946m³ 29/2/2012 W2462m³ and E18918m³ = 21380m³ 28/2/2012 W2462m³ and E18918m³ = 21380m³ 27/2/2012 W2462m³ and E17470m³ =19932m³</p> <p>The levels for all of the days are compliant of the current OMP trigger levels in respect of the west side rectangular primary settlement tanks, which are 3,000m³ for these tanks. The sludge stock levels were compliant for the OMP trigger level for the west side circular primary settlement tanks on all of these days, which is 250m³. There are no limits for the East Side Primary Settlement tanks as these are covered and odour controlled.</p>	<p>No further comment.</p>
<p>Digesters</p> <p>Digesters 12 and 18 are out of service for maintenance.</p> <p>Digesters 7, 9 and 11 were gassing vigorously through the annular seals of each of the digesters at the time of the inspection and were odorous. TW</p>	<p>No further comment.</p> <p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 7, 9 and</p>

<p>advised that measures would be taken to draw off additional gas from the digester domes to reduce this.</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>11 and additional doses of antifoam were applied.</p> <p>No further comment.</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 and work has commenced on this.</p> <p>The rest of the rectangular primary settlement tanks were in a very poor condition with a build up of a scum on a number of the tanks, gassing taking place and sludge on the tanks. There was a build up of scum and sludge on tanks 13a, 13b with evidence of gassing from all of these tanks. There was a very build up of sludge on the surface of tank 14a with most of tank 14b being covered with a layer of scum. Part of tank 15a had been covered with a layer of scum and was gassing and tank 15b was gassing.</p> <p>It will be necessary to continue with manual desludging to ensure there is no build up of sludge and to reduce gassing. Please also ensure that adequate ferric chloride dosing is undertaken to ensure that the tanks are operating effectively.</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 as soon as it is practicable to do so.</p> <p>PST 11 was being hosed down at the time of the inspection as it also had a covering of scum on the surface of the tank.</p> <p>PST 12 is out of service due to a defective drive bearing on the gearbox of the tank.</p>	<p>No further comment.</p> <p>We can confirm that the manual desludging of these tanks has continued and the dosing levels have been checked.</p> <p>The hosing of this tank continued.</p> <p>No further comment.</p> <p>No further comment.</p>

GENERAL

Final Settlement Tanks East Side of Works

The 8 circular tanks previously used as PSTs are now being used as 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.

No further comment.

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.

We will continue to update LBH on the progress of this job; however, the screens inside the building are odour controlled and so, although we will progress the job as soon as we are able, this issue is not giving rise to odour.

Skips

There were three empty six yard skips and one empty six-yard skip on the East side skip area.

No further comment.

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

No further comment.

Pasteurisation Plant

The pasteurisation plant continues to be out of service.

No further comment.

Imported Sludge

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

No further comment.

Section 106 agreement

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

No further comment.

Odour control unit (ocu) performance monitoring (29/2//12)				<ul style="list-style-type: none"> • Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
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	0.064 Average	0.8	Yes	
Thickening plant outlet	0.56 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.01#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	8 March 2012
Attendees	Anthony Robinson and Brett Stacey, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>All storm water tanks were full and tank 8 was in the process of being filled. Raw effluent appeared fresh in the majority of tanks, with the exception of tank 6 where some localised gassing was occurring.</p> <p>Please ensure all amajets function correctly when the tanks are being returned and any sludge is cleared from the tanks. Also ensure that any grit or effluent is cleared from hoppers as soon as possible.</p> <p>TW advised that the new amajets on tank 3 may need some adjustment to clear front of the tank effectively.</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>Noted.</p> <p>This is currently being investigated.</p>
<p>Odour monitors</p> <p>No odour levels had been above the current trigger level of 0.015ppm for more than 20 minutes in the last week, although a few spikes of short duration were recorded on Monitor 4 on 3rd and 5th March.</p> <p>The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13:34) were low, and below the trigger level of 0.015ppm.</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p>

Monitor 1	0.004 ppm		
Monitor 2	0.005 ppm		
Monitor 3	0.000 ppm		
Monitor 4	0.003 ppm		
Monitor 5	0.005 ppm		
Monitor 6	0.009 ppm		
Monitor 7	* ppm		
Monitor 8	0.005 ppm		
Monitor 9	0.005 ppm		
Monitor 10	0.004 ppm		
Monitor 11	0.006 ppm		
Monitor 12	0.003 ppm		
Monitor 13	0.001 ppm		
* out of service for repair			As the monitor has to be sent to America, this will take 6-8 weeks. The monitor will therefore be back in service by the beginning of May.
Complaints			
On Friday 2 nd March the council received a telephone complaint at approximately 15:16 referring to odour at Tesco (Mogden Lane) on the previous day (1 st March). The site log for 1 st March shows no odour issues and the SCADA odour traces show that there were no spikes above the 0.015 threshold on this date.			Thames Water did not receive this complaint, but accept LBH's investigation findings.

<p>Sludge Dip Records</p> <p>05/3/2012 W2462m³ and E16746m³ = 19208m³ 06/3/2012 W2838m³ and E14936m³ = 17774m³ 07/3/2012 W2462m³ and E15298m³ = 17760m³ 08/3/2012 W2837m³ and E17707m³ = 20544m³</p> <p>The sludge records for the above four days are compliant with the current Odour Management Plan (OMP). The sludge stock levels were compliant for the OMP trigger level (250m³) for the west side circular primary settlement tanks on all of these days. 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. This has not been necessary over the last 7 days.</p>	<p>No further comment.</p> <p>No further comment.</p>
<p>Digesters</p> <p>Seals on the digesters were generally good and the dome heights on the whole were quite low. Digester 11 was gassing and spitting lightly and there was evidence of previous spillages on digesters 13 and 14.</p> <p>Digester 9 was overflowing with sludge due to a technical problem, TW took immediate action to identify the problem and sent out a team to clear the sludge spillage.</p> <p>TW also advised that the resulting spillage around Digesters 11, 13 and 14 would be cleaned up once a team was available to do so. 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>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digester 11 and additional doses of antifoam were applied. The spillages were cleaned once the problem with digester 9 was rectified.</p> <p>No further comment.</p> <p>This was actioned, as advised. Please see above.</p> <p>No further comment.</p>

<p>West side primary settlement tanks (PST)</p> <p>Rectangular PSTs 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 and work has commenced on this. Materials had arrived to begin works.</p> <p>Thames advised that ferric chloride dosing of effluent before it reaches the primary settlement tanks is improving conditions on the West side rectangular PSTs (13-16).</p> <p>The scraper on 15B is now operational. All tanks had some fatty deposits floating on the surface but little evidence of activated sludge and no noticeable odour or gassing. Approximately ¼ of the surface of tank 13A was covered with sludge which needed breaking up.</p> <p>Circular PSTs Tank 12 has been partially drained down to allow a bearing on the scraper mechanism to be repaired. Some surface scum was visible around the scraper. All other circular PSTs appeared OK.</p> <p>PST 11 had a heavy layer of scum covering approximately one third of its surface area.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>Hosing of the tank 13A took place over the next couple of days as required.</p> <p>No further comment.</p> <p>The tank was hosed down to break up the scum.</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 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.</p>	<p>No further comment.</p>

<p>East Side Screen House</p> <p>The glass pane on the right hand side door has been temporarily fixed and the doors were almost completely closed, the doors will not close flush and need repairing. TW advised that Perspex has been ordered for the right hand side door.</p> <p>Skips</p> <p>On the West side there were 2 large covered skips and 1 small empty skip.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>No imported sludge has been received into the site this week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>We will continue to update LBH on the progress of this job; however, the screens inside the building are odour controlled and so, although we will progress the job as soon as we are able, this issue is not giving rise to odour.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																				
<p>Odour control unit (ocu) performance monitoring (8/3/12)</p> <table border="1" data-bbox="190 1013 1102 1321"> <thead> <tr> <th>This is the most recent set of data available. Plant</th> <th>Reading (ppm)</th> <th>Action Level (ppm)*</th> <th>Compliant</th> </tr> </thead> <tbody> <tr> <td>Main pumping station outlet</td> <td>0.001 Average</td> <td>0.2</td> <td>Yes</td> </tr> <tr> <td>East Ocu</td> <td>0.03</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>West Ocu</td> <td>0.01</td> <td>0.05</td> <td>Yes</td> </tr> <tr> <td>Sludge reception outlet</td> <td>0.04 Average</td> <td>0.8</td> <td>Yes</td> </tr> </tbody> </table>	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	0.03	0.05	Yes	West Ocu	0.01	0.05	Yes	Sludge reception outlet	0.04 Average	0.8	Yes	<ul style="list-style-type: none"> Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
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Main pumping station outlet	0.001 Average	0.2	Yes																		
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Sludge reception outlet	0.04 Average	0.8	Yes																		

Thickening plant outlet	0.071 Average	0.6	Yes	
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.04#	0.6	Yes	

Portable Jerome measurement



LB Hounslow Mogden STW Site Inspection

Date of inspection	15 March 2012
Attendees	J Boyd and I Inman, LB Hounslow Operational Plant Manager, Thames Water
LB Hounslow Observation	Thames Water Action / Response
<p>Storm Water Storage Tanks (SWST)</p> <p>With the exception of tanks 3A, 3B and 6B all storm water tanks were full or being filled. All three hoppers to tank 6B need draining down</p> <p>Amajets to tanks 2B, jets 2 and 3 of tank 8A and all three of tank 8B were not working. Please ensure all amajets function correctly when the tanks are being returned and any sludge is cleared from the tanks. Also ensure that any grit or effluent is cleared from hoppers as soon as possible.</p> <p>TW advised that the new amajets on tank 3 may still need some adjustment to clear front of the tank effectively.</p>	<p>As per section 3.2 of the odour management plan and the East Side Storm Water Tanks and Hoppers Management Plan; every effort is made to ensure the storm tanks and hoppers are cleaned as soon as possible after use. To this end, the storm tanks are inspected twice a day and the condition of the hoppers / tanks is noted and prioritised for draining and/or cleaning.</p> <p>Noted.</p> <p>This is currently being investigated.</p>
<p>Odour monitors</p> <p>No odour levels had been above the current trigger level of 0.015ppm for more than 20 minutes in the last week, although a few spikes of short duration were recorded on Monitor 6 on 13th March and one spike on 14th March.</p> <p>The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx 13:48) were low, and below the trigger level of 0.015ppm.</p>	<p>As per section 3.5.1 of the odour management plan, any activity detected above the trigger level is investigated and findings noted in the site odour log.</p> <p>No further comment.</p>

Monitor 1	0.002 ppm		
Monitor 2	0.005 ppm		
Monitor 3	0.000 ppm		
Monitor 4	0.001 ppm		
Monitor 5	0.004 ppm		
Monitor 6	0.005 ppm		
Monitor 7	* ppm		
Monitor 8	0.005 ppm		
Monitor 9	0.003 ppm		
Monitor 10	0.004 ppm		
Monitor 11	0.006 ppm		
Monitor 12	0.004 ppm		
Monitor 13	0.003 ppm		
* out of service for repair			As the monitor has to be sent to America, this will take 6-8 weeks. The monitor will therefore be back in service by the beginning of May.
Complaints			
On 12th March the Council received a telephone complaint at approximately 18:46 referring to odour in the area of Queensbridge Park. The site log for 12th March shows no odour issues and the SCADA odour traces show that there were no spikes above the 0.015 threshold on this date.			Thames Water did not receive this complaint, but accept LBH's investigation findings.

<p>Sludge Dip Records</p> <p>12/3/2012 W3213m³ and E17108m³ = 20321m³ 13/3/2012 W2857m³ and E17832m³ = 20689m³ 14/3/2012 W2522m³ and E17108m³ = 19630m³ 15/3/2012 W2460m³ and E17470m³ = 19932m³</p> <p>The sludge records for the above four days are compliant with the current Odour Management Plan (OMP). The sludge stock levels were compliant for the OMP trigger level (250m³) for the west side circular primary settlement tanks on all of these days. 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. This has not been necessary over the last 3 days.</p>	<p>No further comment.</p> <p>No further comment.</p>
<p>Digesters</p> <p>Seals on the digesters were generally good and the dome heights on the whole were quite low. Digester 11 was gassing strongly, but no spillage, Digesters 9 and 13 were also gassing but lightly, no spillage.</p> <p>TW advised that anti-foaming agent continues to be manually administered as a precautionary measure twice a day and additionally if necessary.</p> <p>Digester 18 is being taken out of service for maintenance.</p>	<p>Adjustments were made to prevent further 'gassing' by drawing more biogas off to our combined heat and power (CHP) engines to help digesters 9, 11 and 13, and additional doses of antifoam were applied.</p> <p>No further comment.</p> <p>No further comment.</p>
<p>West side primary settlement tanks (PST)</p> <p>Rectangular PSTs</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</p>	<p>No further comment.</p>

<p>tanks are covered and work has commenced on this. Materials had arrived to begin works.</p> <p>Thames advised that ferric chloride dosing of effluent before it reaches the primary settlement tanks is improving conditions on the West side rectangular PSTs (13-16).</p> <p>The scraper on 15B is now operational. All tanks had some fatty deposits floating on the surface but little evidence of activated sludge and no noticeable odour or gassing. Approximately ¼ of the surface of tank 13A was covered with sludge which needed breaking up.</p> <p>Circular PSTs</p> <p>PST tank 12 has been partially drained down to allow a bearing on the scraper mechanism to be repaired. Some surface scum was visible around the scraper. TW advised that this was to be repaired that afternoon.</p> <p>PST tank 10 had a heavy layer of scum covering the whole surface area and it was noted that the scraper bridge paddle was missing. TW agreed to log this defect for repair as soon as possible.</p>	<p>No further comment.</p> <p>No further comment.</p> <p>Hosing of the tank 13A took place over the next couple of days as required.</p> <p>No further comment.</p> <p>No further comment.</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 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.</p> <p>East Side Screen House</p> <p>The glass pane on the right hand side door has been replaced and the doors were almost completely closed, the doors will not close flush and need</p>	<p>No further comment.</p> <p>We will continue to update LBH on the progress of this job; however, the screens inside the building are odour controlled and so, although we will</p>

<p>repairing.</p> <p>Skips</p> <p>On the East side there were 2 filled covered skips, 1 partially filled covered skip and 1 empty skip.</p> <p>On the West side there was 1 covered skip half filled and 1 empty skip.</p> <p>Pasteurisation Plant</p> <p>The pasteurisation plant continues to be out of service.</p> <p>Imported Sludge</p> <p>Currently trialling import of sludge from Chertsey of 1 tanker. If trial successful there will be an import of 3 tankers per day for 1 week.</p> <p>Section 106 agreement</p> <p>There have been no breaches of the s106 agreement in the last week.</p>	<p>progress the job as soon as we are able, this issue is not giving rise to odour.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p> <p>No further comment.</p>																								
<p>Odour control unit (ocu) performance monitoring (8/3/12)</p> <table border="1" data-bbox="190 981 1102 1327"> <thead> <tr> <th data-bbox="190 981 593 1045">This is the most recent set of data available. Plant</th> <th data-bbox="593 981 743 1045">Reading (ppm)</th> <th data-bbox="743 981 936 1045">Action Level (ppm)*</th> <th data-bbox="936 981 1102 1045">Compliant</th> </tr> </thead> <tbody> <tr> <td data-bbox="190 1045 593 1109">Main pumping station outlet</td> <td data-bbox="593 1045 743 1109">0.000 Average</td> <td data-bbox="743 1045 936 1109">0.2</td> <td data-bbox="936 1045 1102 1109">Yes</td> </tr> <tr> <td data-bbox="190 1109 593 1173">East Ocu</td> <td data-bbox="593 1109 743 1173">0.01</td> <td data-bbox="743 1109 936 1173">0.05</td> <td data-bbox="936 1109 1102 1173">Yes</td> </tr> <tr> <td data-bbox="190 1173 593 1204">West Ocu</td> <td data-bbox="593 1173 743 1204">0.01</td> <td data-bbox="743 1173 936 1204">0.05</td> <td data-bbox="936 1173 1102 1204">Yes</td> </tr> <tr> <td data-bbox="190 1204 593 1300">Sludge reception outlet</td> <td data-bbox="593 1204 743 1300">0.14 Average</td> <td data-bbox="743 1204 936 1300">0.8</td> <td data-bbox="936 1204 1102 1300">Yes</td> </tr> <tr> <td data-bbox="190 1300 593 1327">Thickening plant outlet</td> <td data-bbox="593 1300 743 1327">0.51</td> <td data-bbox="743 1300 936 1327">0.6</td> <td data-bbox="936 1300 1102 1327">Yes</td> </tr> </tbody> </table>	This is the most recent set of data available. Plant	Reading (ppm)	Action Level (ppm)*	Compliant	Main pumping station outlet	0.000 Average	0.2	Yes	East Ocu	0.01	0.05	Yes	West Ocu	0.01	0.05	Yes	Sludge reception outlet	0.14 Average	0.8	Yes	Thickening plant outlet	0.51	0.6	Yes	<ul style="list-style-type: none"> <li data-bbox="1176 917 1971 949">Odour Management Plant version 2.0 action level outlet values <p>No further comment.</p>
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	Average			
Pasteurisation plant outlet	Not operating		N/A	
Transfer PS Outlet	0.33#	0.6	Yes	

Portable Jerome measurement