



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 9 th February 2017	
Attendees: Mr A Devine, Mr D Kalamantis (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A was empty, drained down and clean – all hoppers required over pumping.</p> <p>Tank 1B was empty, drained down, there was a small amount of sludge in the tank. All hoppers were empty.</p> <p>Tank 2A was empty, drained down, however there was sludge in the tank. Hopper 1 required over pumping.</p> <p>Tank 2B was empty, drained down, however there was sludge and grit in the tank. Hoppers 1, 2 and 3 all required over pumping.</p> <p>Tank 3A was empty, drained down and clean. All the hoppers were drained down.</p> <p>Tank 3B was empty, drained down and clean. All the hoppers were drained down.</p> <p>Tanks 4A, 4B, 5A & 5B are covered and odour controlled.</p> <p>Tanks 6A & 6B were empty, drained down and clean. In both tanks Hoppers 1, 2 and 3 were drained down.</p> <p>Tank 7A and 7B were empty, drained down, however there was sludge</p>	

in the tank. All hoppers require further draining down.

Tank 8A and 8B were empty, drained down, however there was sludge in the tank. Hoppers 1, 2 and 3 in both tanks required over pumping.

There have been issues with the pumps which Thames Water advised would be resolved today.

Storm Water Channel

The level of effluent in storm feed channels serving STW's 1A-8B was very low. The sludge in these channels was very dark.

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx. 14:06).

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

Complaints

The Council received no complaints via telephone or e-mail in the previous 7 days.

Odour Log (Thames) - Photocopies of log entries taken:

Thursday 02nd February 2017

AM – Odour monitors 1 to 13 no spikes

PM– No odour spikes. No odour problems.

Friday 03rd February 2017

AM – Odour monitor 3 0.02ppm at 09:19am to 09:29am. Odour monitor 6 to 13 no spikes.

PM – No odour issues found or reported, no spikes on trends..

Saturday 04th February 2017

AM – Odour monitor 5 0.023ppm at 12:15pm to 12:27pm. Odour monitors 6 to 13 no spikes.

PM – No odour issues found or reported. No spikes on trends.

Sunday 05th February 2017

AM – Odour monitors 1 to 13 no spikes.

PM – Odour monitor 9 spiked at 00:30am for less than 15 minutes duration (max 0.028ppm). No other odour issues.

Monday 06th February 2017

AM – No odour problems. Nothing of note on trends.

PM – No odour issues.

Tuesday 07th February 2017

AM – Odour monitors 1 to 5 no spikes. Odour monitor 9 recorded the following

0.015ppm at 18:15pm to 18:27pm

0.017ppm at 18:45pm to 18:57pm

0.017ppm at 19:15pm to 19:27pm

0.019ppm at 20:15pm to 21:12pm

Odour monitor 8 0.019ppm at 20:47pm to 21:02pm

PM – No odour showing on trends.

Wednesday 08th February 2017

AM – No odour problems. Nothing to report.

PM – Odour monitors 1 to 13 no spikes.

Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
	All units in m ³					
OMP limit	500					
03/02/2017	0	1611	1616	3227	3578	6805
08/02/2017	0	2030	1406	3436	13979	17415

Thames Water advised that a third sludge dip record was not provided due resource issues.

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 and which has been complied with in this instance

Imported Sludge

There have been 15 imports each of 30m³ of sludge between 2nd February to 8th February.

Digesters

Digesters 1-4 are permanently out of use.

Digester 13, 16 and 19 were out of use.

All of the other digesters which were in use had weak seals with the exception of digesters 9 and 10 which had good seals. A spill was noted at digester 15. Thames Water advised that this would be dealt with today.

Automatic dosing of anti-foaming agent is now in use and TW advised that this is also applied manually as required to all operational digesters.

Return Activated Sludge Channel

The RAS channel (which runs in the ground between FST's 61-64 & 65-67) was generally free flowing however sludge build up was noted at the start of the channel.

West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 10, 11 & 12 were all in operation with no reported problems and had 'fat-free' surfaces

GENERAL

Final Settlement Tanks East Side of Works

The 8 circular tanks previously used as PSTs are now being used as final tanks (71-78).

At the time of the inspection all tanks were in operation with the exception of tanks 71 and 78.

East Side Screen House

The screen house doors were all closed.

Skips

East side

1 16yd skips - covered.

West side

There were three skips – 2 6yd empty uncovered and 1 bulk container.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection with no reported problems.

Section 106 agreement

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

West Side Aeration Lanes (Old)

No issues appeared evident

New Works (West Side)

The feed channel to Aeration Lanes 21-25 (E-Battery) was filled with rag and surface scum. The surface of the tanks was filled with a dense layer of scum.

Thames confirmed tanker crews are cleaning the mixed feed liquor channel out on a weekly basis.

New Inlet Works (West Side)

There were no reported issues on this part of the site.

Odour Control Unit (OCU) performance monitoring – 07/02/2016

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.026(av)	0.2	Yes
East OCU	0.010(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet	0.039(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.00002(av)	0.5	Yes
Transfer PS outlet	0.002(av)	0.6	Yes
New West OCU 11 outlet	0.003(av)	0.6	Yes