Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 11 th May 2017				
Attendees: Mr Anthony Robinson (London Borough of Hounslow), Mr Dimitrios Kalamantis (Thames Water)				
LB Hounslow Observation	Thames Water Action / Response			
Storm Water Storage Tanks (SWST)				
All storm water storage tanks were empty.				
Hopper 1 in tank 3A and hopper 1 in tank 3B were ³ / ₄ full and needed over pumping. Thames water advised that a fault on the pump was causing a problem with back filling.				
Hopper 3 in tank 6a was half full and needed over pumping, the other hoppers were low. All hoppers in tanks 8A and 8B were half full and needed over pumping.				
Storm Water Channel				
The level in the storm feed channels serving STW's 1A-8B was very low.				

Odour Monitors

The odour readouts (H_2S) for all of the monitors, which were providing data at the time of inspection (approx. 13:23.

Monitor 1	0.005	ppm
Monitor 2	0.007	ppm
Monitor 3	0.003	ppm
Monitor 4	0.005	ppm
Monitor 5	0.006	ppm
Monitor 6	0.004	ppm
Monitor 7	0.006	ppm
Monitor 8	0.008	ppm
Monitor 9	0.005	ppm
Monitor 10	0.005	ppm
Monitor 11	0.005	ppm
Monitor 12	0.006	ppm
Monitor 13	0.009	ppm

Complaints

The Council received 1 complaint via telephone in the previous week and no complaints via e-mail.

On 11th May at approximately 14:11 a resident called to report odour in the area of Crofters Close, Isleworth (South West side of the works) over the last few weeks. The duty officer called the resident back and left a message. The weekly inspection was being undertaken at the time the resident called and no odour issues were identified while on site between 13:00 and 14:30 (approx). The digesters are part of the site closest to the resident and no issues were identified with the digesters at the time

of the inspection and are not likely to be the source of odour complained of by the resident. The odour traces for the previous seven days were analysed and no odour incidents were identified. On this occasion it has not been possible to identify any potential source of odour top the resident.

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

Thursday 4th May 2017
AM – No odour issues on site. No spikes on trends.
PM – OM 1-5 no spikes. 6-13 no spikes.

Friday 5th May 2017

AM – No odour issues on site. No spikes on trends. **PM** – No odour issues. Nothing to report on trends.

Saturday 6th May 2017

AM – No odour issues on site.PM – No odour issues. Nothing to report on trends.

Sunday 7th May 2017

AM – Monitor 9 – two spikes up to 0.023ppm both under 15 minutes. OCU Fans running in hand because of final effluent supply issue to quench tower.

PM – No odour issues. Nothing to report on trends.

Monday 8st May 2017

AM – No odour spikes, no odour problems.PM – No odour issues on site. No spikes on trends.

Tuesday 9th May 2017

AM - OM 1 to 5 = no spikes. OM 6 to 13 = no spikes

PM – Monitor 3 – one spike 0.016ppm – 10 minute duration. No other odour issues on site.	
Wednesday 10 th May 2017 AM – No odour issues. No spikes. PM – No odour issues. No spikes on trends.	

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					
05/05/2017	0	1398	122	1520	4281	5801
08/05/2017	59	1055	61	1175	3272	4447
10/05/2017	59	1491	61	1611	3419	5030

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.

Imported Sludge

There have been 8 deliveries per day of imported sludge each of 30m³ in the last week.

Digesters

Digesters 1-4 are permanently out of use.

Digester 13, 16 and 19 were out of use at the time of inspection.

All of the remaining digesters were in use and had good seals with no evidence of gassing.	
Automatic dosing of anti-foaming agent in 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) were free flowing, there were no deposits or sludge.	
West side primary settlement tanks (PST)	
Rectangular PSTs are now covered and odour controlled.	
Circular PSTs 9, 11 & 12 were all in operation with no noticeable issues and no algae build up. The bridge on PST 10 had failed on the day of the inspection and sludge had begun to build up. LBH requested Thames to ensure any sludge was broken down or removed to prevent potential odour issues.	
GENERAL	
Final Settlement Tanks East Side of Works	
Tanks 71-78 were all in operation with sprinklers and hoses operating as normal. There was no sign of sludge build up or fatty deposits.	

East Side Screen House

The screen house doors were all closed at the time of the inspection. Thames Water confirmed all screens were in operation. There were no skips outside the screen house.

<u>Skips</u>

East side 1 x 16 yard skip – empty and uncovered

West side 1 x 6 yard skip – empty and uncovered. 1 x 16 yard skip – empty.

Pasteurisation Plant

Ten of 12pasteurisation plant streams were in service at the time of the inspection with no reported problems. Work to replace activated carbon in OCU 12 is now complete.

Section 106 agreement

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

West Side Aeration Lanes (Old)

No reported issues

New Works (West Side)

The West side aeration lanes feed channel contained a moderate amount of rag and sludge although there did not appear to be an associated odour problem. The surface of the lanes had improved over previous conditions.

New Inlet Works (West Side)

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

Odour Control Unit (OCU) performance monitoring – 08/05/2017

(ppm)	
0.2	Yes
0.05	Yes
0.05	Yes
0.8	Yes
0.6	Yes
0.5	Yes
0.6	Yes
0.6	Yes