



Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 14 th July 2017	
Attendees: Mr Anthony Robinson (London Borough of Hounslow) and Mr Dimitrios Kalmantis (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A – Tank had just been returned, the hoppers were low but the front of the tank contained some grit and needed flushing.</p> <p>Tank 1B – 2B – Empty and clean. All hoppers were low.</p> <p>Tank 3A 3B – Tank full approx. 20% full.</p> <p>Tanks 4A, 4B, 5A & 5B are all covered and odour controlled.</p> <p>Tank 6A – Tank full approx. 20% full.</p> <p>Tank 6B – Tank empty. Hoppers drained down.</p> <p>Tank 7A - 8B – All approximately 20% full.</p> <p>Feed Channel – The feed channel level was very low. The base of the channel feeding tanks 5-8 contained a thick layer of sludge although no excessive odour was detected.</p>	

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at time of inspection (1:22pm) are as follows:

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

All readings accessed using Envirosuite which provides data in ppb.

Complaints

The Council received one complaint by telephone in the preceding week and no complaints via e-mail.

The Council received no complaints by email from MRAG.

On 7th July 2017 at approximately 13:39 a resident of Trevor Close, Isleworth called to report odour. The historic odour data shows that there were no spikes above the 0.015ppm threshold on 7th July. Trevor Close is South of the Storm tanks on the South East side of the works although these were not in use on 7th July. There is no evidence of excessive odour on this date.

Odour Log (Thames)

Thursday 6th July 2017

AM – No odour spikes showing on trends. No odour problems.

PM – No odour issues. Nothing to report on trends. Odour complaints from WOC @ 22:30. Checked site for odours and nothing of note found.

Friday 7th July 2017

AM – No odour spikes

PM – No odour spikes

Saturday 8th July 2017:

AM – No odour spikes. Area around tanker imports cleaned up (East side inlet).

PM – No odour spikes

Sunday 9th July 2017

AM – No odour spikes. Trends failed between 13:00 – 15:00. Sludge spill in no. 5 station, cleaned up by day workers.

PM – Sheet blank.

Monday 10th July 2017

AM – No spikes on trends. No odour issue on site.

PM – No spikes.

Tuesday 11th July 2017

AM – No spikes on trends. No odour issues on site.

PM – No spikes on trends. No odour issues on site.

Wednesday 12th July 2017

AM – Monitor 1-5 no spikes. Monitor 10 – one spike 0.015ppm under 10 minutes.

one noted.

PM – Odour monitor 10 spiked, area checked, digesters not blowing

seals 18:49 – 19:04 (0.017).

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					
07/07/17	439	394	740	1573	5763	9164
10/07/17	343	0	305	648	2955	3603
28/07/17	304	206	305	815	1486	2301

The sludge stock levels for the West side circular primary settlement tank 1 were **compliant** with the OMP trigger level (500m³) for all dates on which data has been provided. 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.

Sludge Screening House

Shutter doors closed at time of inspection.

Imported Sludge

Ten imports of 35m³ daily for preceding seven days.

Digesters

Digesters 1-4 – Out of use (permanent).

Digesters 13, 16 and 19 were out of use for maintenance.

Digesters 7 & 9 were gassing vigorously. Thames arranged for additional gas to be drawn off from this digester to control the release of gas from the seal.

Digesters 5, 6, 8, 10, 11, 12, 14, 15, 17 and 18 had slightly weak / sloppy seals.

All other digesters appeared to have good seals with evidence of the use of pellets to thicken the seals and prevent gassing.

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) all are back in service following maintenance works to scrapers. The surfaces of Tanks 71, 77 & 78 were still covered in a thick layer of algae.

East Side Screen House

All doors closed.

Other Skips

1 x 15 yd. open general waste skip at rear of screen house.

Pasteurisation Plant

The pasteurisation plant is in service and fully operational.

Section 106 agreement

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

West side primary settlement tanks (PST)

Rectangular PSTs – no issues

Circular PST's 9, 10, 11 & 12 all in use

West Side Aeration Lanes (Old)

Battery C aeration feed channel was clear, contractors were on site clearing the channels further North.

New Works (West Side)

Feed Channel for Aeration Lanes 20 - 25

Fluffy layer of sludge across the surface of the aeration lanes. None of the sprinklers were working properly as they had become blocked with algae – this was raised with Thames Water.

Odour Control Unit (OCU) performance monitoring – (13/07/17)

Plant	Reading (ppm) (Average)	Action Level (ppm)	Compliant
Main pumping station outlet	0.000	0.2	Yes
East OCU	0.002	0.05	Yes
West inlet OCU	0.000	0.05	Yes
Sludge reception outlet	0.025	0.8	Yes
Thickening plant outlet	0.007	0.6	Yes
Transfer PS outlet	0.000	0.6	Yes
New West inlet (OCU 11)	0.000	0.5	Yes
OCU 12 (Pasteurisation Plant)	0.000	0.5	Yes

