

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 8 th December 2016	
Attendees: Mr Zaheer Kadri, Mr D Kalamantis (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
Storm Water Storage Tanks (SWST)	
Tanks 1A – 3B All tanks were empty and all hoppers were completely drained down. There was no grit or effluent in the tanks. Tank 2A had slight grit near the hopper end that would require sweeping though there were no evidence of odour present.	
Tanks 4a, 4b, 5a & 5b are covered and odour controlled.	
Tanks 6A and 6B were empty and all hoppers were completely drained down. There was no grit or effluent in the tanks.	
Tanks 7A – 8B all tanks were empty and all hoppers were completely drained down apart from Tank 7B that had some thick grit near the hopper end which required removal. The hoppers in tank 8a and 8b required over pumping due to the level of effluent which was forming a thick fatty layer on top. Thames Water explained that this was due to issues with backfilling and there were no signs of odour from these hoppers.	
Storm Water Channel	
The level of effluent in storm feed channels serving STW's 1A-8B was low though it appeared sludgy and was not odorous. There was no noticeable odour. The sludge in these channels was dark and murky in colour.	

Odour Monitors

The odour readouts (H_2S) for all of the monitors, which were providing data at the time of inspection (approx 15:18).

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

Complaints

The Council received no complaints via telephone, e-mail or complaints via MRAG in the previous week.

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

Thursday 1st December 2016

AM – No odour issues on site – Nothing to report on trends **PM**– Monitor No2 spiked once at 00:15 but less than 15 mins duration max 0.018ppm – skip hosed down at east inlet.

Friday 2nd December 2015

AM – No odour issues on site – Nothing to report on Trends **PM** – Monitor No5 spiked once at 19:05 for a15 min duration (0.030ppm)

Saturday 3 rd December 2016 AM – No odour issues on site – Nothing to report on trends PM – Monitor No5 spiked at 13:30 (max 0.027ppm) – odour coming from manhole main drive
Sunday 4 th December 2016 AM – No odour issues on site – Nothing to report on trends PM – Trends flatlined early in shift – no odours issues
Monday 5 th December 2016 AM – OM 1-5 no spikes and OM6-13 no spikes. PM – No odour issues on site – nothing to report on Trends
Tuesday 6th December 2016 AM – OM1-5 no spikes OM13 crashed from 01:04 till 10:54 PM – No odour issues on site – nothing to report on Trends
Wednesday 7 th December 2016 AM – No odour issues on site – nothing to report on Trends PM – No odour issues on site – nothing to report on Trends

Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
			All un	its in m ³		
OMP limit	500					
02/12/2016	244	1012	0	1256	2930	4186
05/12/2016	435	1200	0	1635	1449	3084
07/12/2016	59	244	183	486	2450	2936

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 72 imports each of 30m³ of sludge in the last week.

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 good seals.

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. Digesters 14 and 18 clearly had pellets in use.

Return Activated Sludge Channel	
The RAS channel (which runs in the ground between FST's 61-64 & 65- 67) contained a layer of fluffy sludge for approximately 2 metres of its length.	
West side primary settlement tanks (PST)	
Rectangular PSTs are now covered and odour controlled.	
Circular PSTs 10, 11 & 12 were all in operation with no noticeable issues.	
PST 9 is currently out of service.	
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 8 tanks were in operation. All 8 tanks have hose and sprinkler systems fitted onto the sweeper bridges. Thames Water confirmed that there were currently no issues with these tanks though there was algal growth on a number of these tanks.	
East Side Screen House	
The screen house now has new doors fitted, both pairs of which were closed at the time of the inspection. Thames Water confirmed all screens were in operation. Skips	
East side 4 Bulk carriers covered and hatches closed (Screening House)	
1 Large Bulk carrier – full and covered (Grit skips) 2 Large Bulk carrier – empty and uncovered (Grit skips)	
West side There were no skips present on the West Side of the works	

Destaurigation Diant			
Pasteurisation Plant			
The pasteurisation plant was in no reported problems.	n service at th	e time of the	inspection with
Section 106 agreement			
There have been no breaches	of the s106 a	greement in	the last week.
West Side Aeration Lanes (C	<u>DId)</u>		
No issues appeared evident a effectively.	nd looked as i	f they were o	operating
New Works (West Side)			
<u>·</u>			
Thames confirmed tanker crew	s and cranes	are in operat	ion undertaking
work so unable to observe this	area.		
New Inlet Works (West Side)			
There were no reported issues	s on this part o	of the site.	
			00/40/0040
Odour Control Unit (OCU) pe	errormance m	ionitoring –	00/12/2010
Plant	Reading	Action	Compliant
Fiant	(ppm)	Level	Compliant
	(ppiii)	(ppm)	
Main pumping station outlet	0.031(av)	0.2	Yes
East OCU	0.015(av)	0.05	Yes
West inlet	0.003(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet	0.05(av)	0.6	Yes
Pasteurisation plant outlet	0.002(av)	0.5	Yes
(OCU 12)	0.002(av)	0.0	103
Transfer PS outlet	0.008(av)	0.6	Yes
New West OCU 11 outlet	0.006(av)	0.6	Yes
	0.000(av)	0.0	165
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