



# London Borough of Hounslow

## Mogden Sewage Treatment Works

### TW Site Inspection

<b>Date of inspection:</b> 15 <sup>th</sup> June 2017	
<b>Attendees:</b> Mr Z KADRI (L B Hounslow) & Mr Manzour Hussain (Thames Water).	
<b>LB Hounslow Observation</b>	<b>Thames Water Action / Response</b>
<b><u>Storm Water Storage Tanks (SWST)</u></b>	
<p>Tank 1A and 1B had a small amount of dried grit and sludge near the hopper end. Hoppers 1, 2 &amp; 3 were all drained down and had some crust covering the top. The Amajets were all in working order.</p> <p>Tank 2A and 2B were both empty &amp; clean. Hoppers 1, 2 and 3 had been drained down and empty again with a slight crusty layer.</p> <p>Tank 3A and 3B were both empty &amp; clean. Hoppers 1, 2 and 3 had been drained down and empty again with a slight crusty layer.</p> <p>Tanks 4A, 4B, 5A &amp; 5B are covered and odour controlled.</p> <p>Tank 6A and 6B were both empty &amp; clean. Hoppers 1, 2 and 3 had been drained down and empty again.</p> <p>Tank 7A and 7B were both empty &amp; clean. Hoppers 1, 2 &amp; 3 (shallow hoppers) were all drained down.</p> <p>Tank 8A and 8B were empty &amp; clean. Hoppers 1, 2 and 3 were both empty.</p> <p>It was reported that the general condition of Amajets were all in good working order. .</p>	

### **Storm Water Channel**

The storm feed channel serving STW's 1A to 4B has a small amount of water at the base. The feed channel serving STW's 5A-8B was empty of effluent along its entire length.

### **Odour Monitors**

The odour readouts (H<sub>2</sub>S) for all of the monitors, which were providing data at the time of inspection (approximately 13:50).

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

### **Complaints**

The Council received 2 complaints one via e-mail and another via telephone over the last week.

#### **E-mail**

An email was received on the 13<sup>th</sup> June 2017 from a resident in the Beaumont Place area of Isleworth located to the south east of the works and close to the site boundary . This was in regards to Noise and odour. After checking the trends overview there were no significant spikes along the odour monitors that would suggest a rise in odour levels. When queried about the noise Thames Water confirmed that there had been works undertaken to the Primary Settlement Tanks. The uncovered storm water tanks are the part of the works closest to the works and the

storm log for that evening taken at 19.30 showed that none of the uncovered tanks were in use and none of the hoppers required over pumping and it has not been possible to identify the source of odour complained of on this occasion. s area and this may have been the likelihood of noise complaints.

### **Telephone**

A complaint was received by telephone regarding odour from Mogden on the 16<sup>th</sup> of June 2017 for a resident of Mann's Close, Isleworth located to the south east of the works and close to the site boundary. The complainant was contacted by the duty Officer at 17:10 in an attempt to confirm the odour was still apparent and in order to witness the nuisance however there was no response from the complainant. The weekly inspection did not show any spikes in odour for the time the complaint was received. There was no abnormality or increase in odour throughout the day. The uncovered storm water tanks are the part of the works closest to the works and the storm log for that evening taken at 21.00 showed that none of the uncovered tanks were in use and none of the hoppers required over pumping and it has not been possible to identify the source of odour complained of on this occasion.

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

#### **Thursday 8<sup>th</sup> June 2017**

**AM** No odour issues on site.

**PM** No odour issues on site

#### **Friday 9<sup>th</sup> June 2017**

**AM** No odour issues on site (Servers 1 and 2 Rebooted some data lost)

**PM** No odour issues. Nothing of note on trends. (Odour suppression units topped up at PST Number 10)

#### **Saturday 10<sup>th</sup> June 2017**

**AM** No odour issues on site..

**PM** No odour issues on site

#### **Sunday 11<sup>th</sup> of June 2017**

**AM** Odour monitor 5 spiked once to 0.016ppm at 07:07 - 07:19).

**PM** Odour monitor 3 spiked to 0.045ppm (14:50) and again to 0.021 (22:35). Odour Suppression units checked by PST 10

**Monday 12<sup>th</sup> of June 2017**

**AM** Odour monitor 3 spiked once to 0.024ppm for less than 12 minutes

**PM** No odour spike. Nothing to report on site.

**Tuesday 13<sup>th</sup> June 2017**

**AM** No odour spikes.

**PM** No spikes on trends. No odour issues.

**Wednesday 14<sup>th</sup> June 2017**

**AM** No odour spikes. No odour problems

**PM** Odour monitor 3 spiked once to 0.015ppm for less than 15 minutes

### Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
	All units in m <sup>3</sup>					
OMP limit	500					
09/06/17	0	740	0	740	5257	5997
12/06/17	0	1466	122	1588	4608	6196
14/06/17	0	1091	0	1091	6591	7682

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 46 imports of sludge over the last week, each import containing 30m<sup>3</sup> of sludge.

### Sludge Screening House

The large roller shutter door of the Raw Sludge Screening building was closed at the time of the inspection and No skips in the area.

### Digesters

Digesters 1-4 are permanently out of use.

Digester 5 was in use and had a good dry seal.

Digester 6 was in use and had a good dry seal.

Digester 7 was OUT OF USE.

Digester 8 was in use and had a good dry seal.

Digester 9 was in use and had a good dry seal.

Digester 10 was in use and had a good dry seal.

Digester 11 was in use and had a good dry seal.

Digester 12 was in use and had a good dry seal.

Digester 13 was OUT OF USE

Digester 14 was OUT OF USE

Digester 15 was in use and had a good dry seal however bubbling over coping stone at one part.

Digester 16 was OUT OF USE.

Digester 17 was in use and had a good dry seal

Digester 18 was OUT OF USE

Digester 19 was OUT OF USE..

Digester 20 was in use and had a good dry seal.

Automatic dosing of anti-foaming agent is now in use and TW advised that this is also applied manually at least twice a day to all operational digesters. Thames Water advised that immediate remedial action would be taken with regard to digester 7.

**Return Activated Sludge Channel**

The nearside RAS channel (which runs in the ground between FST's 61-64 & 65-67) was clogged along the three quarters of its length with thick dry sludge at the time of the inspection. Thames advised a tanker is cleaning this out on a weekly basis.

**West side primary settlement tanks (PST)**

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 11 & 12 were all in operation at the time of the inspection. PST 10 is currently out of service and drained down. Hoses were spraying into PT 10 at the time of the inspection.

**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 and appeared to be working fine. Tanks 77 and 78 had a build-up of green algae on the surface.

**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 confirmed all screens were in operation. No skips were on site at this location

**Skips**

On the East side there was 1 open low level bulk carrier on site that was empty and no odour was present.

On the West side there was one 6yd skip that was covered and used for general waste and one bulk container.

A 6yd skip which was covered was also present outside the pasteurisation plant

A small 6 yard skip was placed at the entrance to the Digester Plant.

**Pasteurisation Plant**

The pasteurisation plant was in service at the time of the inspection. TW confirmed all 12 streams were operating at the time of the inspection.

**Section 106 agreement**

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

**West Side Aeration Lanes (Old)**

No issues appeared to be evident.

**New Works (West Side)**

The mixed liquor feed channel serving aeration lanes 21-25 (E Battery) was clogged with rag & debris along more than half its length. This had a scum on the surface and was noted to be locally slightly odorous

The surface of the tanks appeared much improved and was visibly flowing again.

The sprinkler system for the aeration lanes should be in permanent use but a number of sprinklers were not working properly at the time of the inspection, being clogged with pondweed.

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

**New Inlet Works (West Side)**

No issues appeared evident at the new inlet works.



**Odour Control Unit (OCU) performance monitoring – 12/06/2017**

<b>Plant</b>	<b>Reading (ppm)</b>	<b>Action Level (ppm)</b>	<b>Compliant</b>
Main pumping station outlet	0.000(av)	0.2	Yes
East OCU	0.006(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.000(av)	0.8	Yes
Thickening plant outlet	0.000(av)	0.6	Yes
Pasteurization plant outlet (OCU 12)	0.000(av)	0.5	Yes
Transfer PS outlet	0.000(av)	0.6	Yes
New West OCU 11 outlet	0.006(av)	0.6	Yes

# Jerome reading