



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 16 th August 2018	
Attendees: Mr A Devine (L B Hounslow) & Mr M Hussain (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A was empty and clean. Hoppers 1, 2 & 3 were all drained down.</p> <p>Tank 1B was empty and clean. Hoppers 1 & 2 were drained down. Hopper 3 was full.</p> <p>Tank 2A was empty and clean. Hoppers 1, 2 & 3 were all approximately 50% full.</p> <p>Tank 2B was empty and clean. Hoppers 1, 2 & 3 were all approximately 50% full.</p> <p>Tank 3A was empty and clean. Hoppers 1, 2 & 3 were all approximately 50% full.</p> <p>Tank 3B was empty but had a small amount of grit in the tank. Hoppers 1, 2 & 3 were all approximately 50% full.</p> <p>Tanks 4A, 4B, 5A & 5B are covered and odour controlled. Unable to gauge condition as lighting system still not working. Window hatch removed to enable access for over-pumping and requires replacement.</p>	

Tank 6A and Tank 6B were both 50% full of effluent and were being filled during the inspection.

Tank 7A and Tank 7B was empty and clean. Hoppers 1, 2 & 3 (shallow hoppers) were all full.

Tank 8A was empty and clean. Hoppers 1 & 3 were all approx. $\frac{3}{4}$ full. Hopper 2 was approximately $\frac{1}{4}$ full.

Tank 8B was empty and clean. Hoppers 1 & 3 were all approx. $\frac{3}{4}$ full. Hopper 2 was approximately $\frac{1}{4}$ full.

Thames advised that all tanks are likely to be filled to due the weather conditions.

Storm Water Channel

The storm feed channel serving STW's 1A-8B was high and flowing.

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx. 13:10 on 16th August 2018).

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

Wind Direction	246.000		
Wing Speed	8.000		

Complaints

The Council received 1 complaint via telephone in the preceding week

On the 14th August 2018 at 11:44 a telephone complaint was received from a resident of Mogden Lane, Isleworth, which is located to the southeast of the works (ref: 975981). The complainant was contacted at 12:27 and after confirming odour was still causing an issue the duty officer agreed to visit the area as soon as possible. A visit was made to Mogden Lane at approx. 13:06 and H2S sampling was carried which gave average readings of 0.000ppm. The subjective assessment confirmed excessive odour was not present. The historic odour monitoring trends around the time of the complaint showed no excessive readings on odour monitors 1 to 13. A letter was sent out to the complainant on the 16th August 2018 advising details of the site visit along with information on the 24 hour Mogden call out service and information of how to access weekly reports from inspections.

The Council received 1 complaint via email in the preceding week

On the 14th August 2018 at 14:39 an email complaint was received from a resident of Weavers Close, Isleworth (ref: 976054). The historic odour monitoring trends at the time of the complaint showed that there were no spikes or excessive readings on odour monitors 1 to 13 around the time the complaint was originally made (14th August 2018 at 14:39). A letter was sent out to the complainant on the 16th August 2018 with information on the 24 hour Mogden call out service and information of how to access weekly reports from inspections.

The Council received no complaints via MRAG in the preceding week

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

Thursday 09th August 2018

AM Warm. Rain with sunny spells.

All OMU's in use.

Observations: 17:30 Nil. No odour issues noted.

Actions None.

PM Cool with rain.

All OMU's in use.

Observations: 05:30 Nil. No odour issues.

Actions None.

Friday 10th August 2018

AM Warm. Rain with sunny spells.

All OMU's in use.

Observations: 17:30 Nil. No odour issues.

Actions None.

PM Cool, clear night.

All OMU's in use.

Observations: 05:30 Nil. No odour issues.

Actions None

Saturday 11th August 2018

AM Warm. Sunny with patchy clouds.

All OMU's in use.

Observations: 17:30

Actions No actions

PM Cool, overcast night.

All OMU's in use.

Observations: 05:30 Nil. No odour issues.

Actions None.

Sunday 12th August 2018

AM Cool, rain with sunny spells

All OMU's in use.
Observations: 00:00 Nil. No odour issues.
Actions None.
PM Cool, overnight cast.
All OMU's in use.
Observations: 05:30 Nil. No odour issues.
Actions None.

Monday 13th August 2018

AM Cool, sunny with patchy clouds.
All OMU's in use.
Observations: 17:20 Nil. No information recorded
Actions None.
PM Cool, clear night
All OMU's in use.
Observations: 05:30 Nil no odour issues
Actions No actions

Tuesday 14th August 2018

AM Warm. Cloudy with sunny spells.
All OMU's in use.
Observations: 17:30 Nil. No odour issues.
Actions None.
PM Cool. Clear night.
All OMU's in use.
Observations: 05:30 Nil. No odour issues.
Actions None.

Wednesday 15th August 2018

AM Warm, sunny with patchy clouds.
All OMU's in use.
Observations: 17:30 Nil. No odour issues.
Actions None.
PM Cool, clear night
All OMU's in use.

Observations: 05:30 Nil. No odour issues.

Actions None.

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					
13/08/18	0	534	0	534	1088	1622
15/08/18	0	0	0	0	1592	1917
*						

*** Only two readings taken this week. Thames Water also advised that sludge stocks were low across the site.**

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

Thames Water advised that there have been 12 imports daily on average.

Sludge Screening House

The large roller shutter door of the Raw Sludge Screening building was closed at the time of the inspection.

Digesters

Digesters 1-4 are permanently out of use.

Digesters 5 & 6 were both in use and had good dry crusty seals.

Digesters 7 & 8 were both in use and had good dry crusty seals.

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

Digester 10, 11 & 12 was in use and had wet seals.

Digesters 13, 14 and 16 were all out of operation.

Digester 15 was in use and had a good dry crusty seal.

Digesters 17 & 18 were all in use and had good dry crusty seals.

Digesters 19 & 20 were both in use and had good dry crusty seals.

Automatic dosing of anti-foaming agent is in use and TW advised that this is also applied manually at least twice a day to all operational digesters.

Return Activated Sludge Channel

The nearside RAS channel (which runs in the ground between FST's 61-64 & 65-67) was relatively free flowing along its length.

West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled.

Circular PSTs 9, 10, 11 & 12 were all in operation at the time of the inspection, all had clean 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 settlement tanks (71-78).
At the time of the inspection all tanks were in operation.

East Side Screen House

The screen house doors were closed at the time of the inspection.

Skips

On the East side there was four 12yds skips. Three were empty and one contained a small amount of general rubbish that was covered with a tarpaulin.

On the West side there was one 40yds closed bulk carrier.

There was one 12yd covered skip by the east side screen house

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection. Thames Water advised three streams were out of operation for maintenance, however one of these streams was to be brought back in to use today.

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)

All of the aeration tanks have again developed a thick “fluffy” coverage across their entire surface. However, the surface appears much improved and free flowing. Almost all the sprinklers were in operation at the time of the inspection and appeared to be functioning correctly.

E Battery:

The feed channel for aeration lane 25 was unclogged and running freely along the majority of the length however there was a part of the length which had a thick sludge that appeared crusty in places. Odour was not noticeable at time of Inspection.

The mixed liquor feed channel serving aeration lanes 24 & 23 were both clear and free flowing. The channel serving aeration lanes 22 & 21 were both free flowing.

New Inlet Works (West Side)

No issues appeared evident at the new inlet works.

Odour Control Unit (OCU) performance monitoring – 13/08/2018

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.01(av)	0.2	Yes
East OCU	0.00(av)	0.05	Yes
West inlet	0.00(av)	0.05	Yes
Sludge reception outlet	No data	0.8	Yes
Thickening plant outlet	0.00(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.00(av)	0.5	Yes
Transfer PS outlet	0.00(av)	0.6	Yes
New West OCU 11 outlet	0.00(av)	0.6	Yes

Jerome reading