



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 23 rd March 2017	
Attendees: L. Phillips (LB Hounslow) & Mr D Kalamantis (Thames Water).	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>All hoppers on Tank's 7A, 7B, 8A and 8B were half full and needed over pumping.</p> <p>All other tanks and hoppers were empty and clear with the hoppers drained down.</p> <p><u>Storm Water Channel</u></p> <p>The storm feed channel serving STW's 1A-8B was low with no significant build-up of sludge.</p>	

Odour Monitors

The odour readouts (H₂S) for all of the monitors, which were providing data at the time of inspection (approx. 13:49).

Monitor 1	0.005	ppm
Monitor 2	0.004	ppm
Monitor 3	0.000	ppm
Monitor 4	0.006	ppm
Monitor 5	0.007	ppm
Monitor 6	0.006	ppm
Monitor 7	0.004	ppm
Monitor 8	0.007	ppm
Monitor 9	0.007	ppm
Monitor 10	0.004	ppm
Monitor 11	0.006	ppm
Monitor 12	0.007	ppm
Monitor 13	0.008	ppm

Complaints

The Council received one odour complaint by telephone in the preceding week.

On 21st March 2017 at 11:06 a resident of Beaumont Place, Isleworth (South East side of the works) called to complain about odour from Mogden. The duty Officer called the resident back however the resident advised that they had left the property and could not give an assessment of the current situation. A visit was not made as the resident was unable to confirm that odour was ongoing. The resident was advised that should it still be an issue later on to inform the duty Officer. The resident was then advised that the matter would be taken up during the weekly inspection. The historic odour traces for this date show no issues during that period. Beaumont Place is close to the storm water tanks on the south east side of the works and the storm log for the AM shift on that day take at 09.00 showed that none of the uncovered tanks were in use, none of the tanks required flushing and none of the hoppers required over pumping and thus not likely to be the source of odour complained of by the resident. It has not been possible to identify the source of odour complained of by the resident on this

occasion.

The Council did not receive any complaints either by e-mail or via MRAG.

Odour Log (Thames Water)

Thursday 16th March 2017

AM No odour issues/spikes.

PM No odour spikes showing on trends no odour problems.

Friday 17th March 2017

AM OM1-5 No spikes- Windy 6-13- No spikes.

PM No Odour Issues found on site or reported no spikes on trends.

Saturday 18th March 2017

AM OM-1-5 – No spikes- Windy 6-13- OM8= 0.016 at 1.51 to 2.04.

PM No odour issues.

Sunday 19th March 2017

AM OM1-5 – No spikes windy 6-13= No spikes.

PM No odour issues no spikes on trends.

Monday 20th March 2017

AM No odour issue no odour spikes on trends.

PM Monitors No5 4&8 spiking around 18:00 most certainly due to gas leak discovered on gas main. Gas compressors shut down and leak isolated reported to site management.

Tuesday 21st March 2017

AM OM1-5 =Monitors 5- 20.33 to 20.46 6-13 = No odour spikes. Flare stack levels reduced.

PM OM 1-5 No spikes 6-13.

Wednesday 22nd March 2017

AM No odour spikes/issues.

PM No odour issue.

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					
17/03/2017	0	1073	0	1073	8257	9330
20/03/2017	0	1030	206	1236	7588	8824
22/03/2017	59	1697	122	1878	12974	14852

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 has been no imported sludge over the last 7 days.

Sludge Screening House

The large roller shutter door of the Raw Sludge Screening building was closed. Moderate odour was present at the crossroads outside the sludge screening house.

Digesters

Digesters 1 - 4 are permanently out of use.

Digesters 13, 16 and 19 were all out of use

Digester 5 –In use weak sloppy seal no evidence of spillage.

Digester 6- In use weak sloppy seal no evidence of spillage.

Digester 7- In use weak sloppy seal no evidence of spillage.

Digester 8 – In use weak sloppy seal no evidence of spillage.

Digester 9 – In use weak sloppy seal no evidence of spillage.

Digester 10- In use weak sloppy seal no evidence of spillage.

Digester 11 - In use weak sloppy seal no evidence of spillage.

Digester 12- In use weak sloppy seal no evidence of spillage.

Digester 14- In use good seal new pellets in use no evidence of spillage.

Digester 15- In use weak sloppy seal no evidence of spillage.

Digester 17- In use good seal new pellets in use no evidence of spillage.

Digester 18- In use good seal very hard crusty seal no evidence of spillage.

Digester 20- In use weak sloppy seal no evidence of spillage.

Automatic dosing of anti-foaming agent is continuing and there was evidence of the use of pellets to thicken the digester seals.

Return Activated Sludge Channel

The West side RAS channel (which runs in the ground between FST's 61-64 & 65-67) was clogged along the first 1/3 of 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 with no noticeable scum or sludge build-up.

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.

East Side Screen House

Both pairs of which were closed at the time of the inspection.

Skips

On the East side there were two bulk carriers one containing grit and covered with a yellow tarpaulin, one was not covered. Thames advised that contractors were on site shoveling grit into the bulk carrier.

In the West side skips area there was one empty 8 yard skip.

Pasteurisation Plant

The pasteurisation plant was in service at the time of the inspection. Thames Water confirmed that the plant is operating normally.

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)

The mixed liquor feed channel serving aeration lanes 21-25 (E Battery)

was filled with rag and sludge along part of the channel and was being hosed and sucked out by a tanker crew at the time of the inspection.

A number of sprinklers were clogged with algae and not working at the time of the inspection.

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

New Inlet Works (West Side)

No reported issues at the new inlet works.

Odour Control Unit (OCU) performance monitoring – 13/03/2017

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station outlet	0.0000(av)	0.2	Yes
East OCU	0.003(av)	0.05	Yes
West inlet	0.000(av)	0.05	Yes
Sludge reception outlet	0.00(av)	0.8	Yes
Thickening plant outlet	0.000(av)	0.6	Yes
Pasteurisation plant outlet (OCU 12)	0.0002(av)	0.5	Yes
Transfer PS outlet	0.000(av)	0.6	Yes
New West OCU 11 outlet	0.000(av)	0.6	Yes

Jerome reading