



London Borough of Hounslow

Mogden Sewage Treatment Works

TW Site Inspection

Date of inspection: 3 rd January 2023	
Attendees: Mr Steven Maunders (London Borough of Hounslow) and Mr John Staines (Thames Water)	
LB Hounslow Observation	Thames Water Action / Response
<p><u>Storm Water Storage Tanks (SWST)</u></p> <p>Tank 1A – Tank empty – Approx. 50% of tank covered by grit and sludge – requires further flushing – All Hoppers full - requires draining/over-pumping.</p> <p>Tank 1B – Tank empty – Approx. 40% of tank covered by grit and sludge – requires further flushing – All Hoppers 15% full - requires draining/over-pumping.</p> <p>Tank 2A – Tank empty – Approx. 20% of tank covered by grit and sludge – requires further flushing – All Hoppers 15% full - requires draining/over-pumping.</p> <p>Tank 2B – Tank empty – Approx. 50% of tank covered by grit and sludge – requires further flushing – All Hoppers approx. 20% full - requires draining/over-pumping.</p> <p>Tank 3A – Tank in use. Two Amajets in operation.</p>	

Tank 3B – Tank in use. All Amajets in operation.

Tanks 4A, 4B, 5A & 5B which are covered, and odour controlled, were all in use - unable to gauge condition as lighting system still not working.

Tank 6A – Tank empty and flushed clean – All Hoppers approx. 50% full - requires draining/over-pumping.

Tank 6B – Tank empty – Approx. 10% of tank covered by grit and sludge – requires further flushing – All Hoppers approx. 50% full - requires draining/over-pumping.

Tank 7A – Tank in use. No Amajets in operation.

Tank 7B – Tank in use. No Amajets in operation.

Tank 8A – Tank in use. Two Amajets in operation.

Tank 8B – Tank in use. Two Amajets in operation.

Feed Channel - The level of effluent in both feed channels was approximately 30% capacity.

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					
28/12/22	0	1068	412	1480	456	1936 (TW figure 1963)
30/12/22	0	1358	412	1770	1088	2858
02/01/23	39	946	122	1107	304	1411

Complaints

The Council received no complaints by email from MRAG in the preceding week.

Thames Water controller advised that they had received no direct complaints in the preceding week.

The Council directly received no complaints by email in the preceding week.

The Council received no calls to the out of hours service.

Odour Monitors

The odour readouts (H₂S) were unavailable for all monitors at time of inspection as access to the SCADA system was down (awaiting IT support)

Monitor 1	No data	ppm	No data
Monitor 2	No data	ppm	No data
Monitor 3	No data	ppm	No data
Monitor 4	No data	ppm	No data
Monitor 5	No data	ppm	No data
Monitor 6	No data	ppm	No data
Monitor 7	No data	ppm	No data
Monitor 8	No data	ppm	No data
Monitor 9	No data	ppm	No data
Monitor 10	No data	ppm	No data
Monitor 11	No data	ppm	No data
Monitor 12	No data	ppm	No data
Monitor 13	No data	ppm	No data
Wind Speed	No data	mph	No data
Wind Direction	No data		No data

Odour Log (Thames):

Wednesday 28th December 2022:

AM – Cool – Rain.

All OMU's in use.

Observations/Complaints: "No odour issues."

Operational Issues/Causes: No data.

Actions: No data.

PM – Cool – Rain.

All OMU's in use.

Observations/Complaints: "No odour issues."

Operational Issues/Causes No data.

Actions: No data.

Thursday 29th December 2022:

AM – Cool – Cloudy.

All OMU's in use.

Observations/Complaints: "No odour issues found or reported."

Operational Issues/Causes: No data.

Actions: No data.

PM – Cool – Clear Night.

All OMU's in use.

Observations/Complaints: “No odour issues.”

Operational Issues/Causes: No data

Actions: No data.

Friday 30th December 2022:

AM – Cool – Patchy Rain.

All OMU's in use.

Observations/Complaints: “No odour issues found or reported.”

Operational Issues/Causes: No data.

Actions: No data.

PM – Cool – Rain.

All OMU's in use.

Observations/Complaints: “No odour issues.”

Operational Issues/Causes: No data.

Actions: No data.

Saturday 31st December 2022:

AM – Cool – Rain.

All OMU's in use.

Observations/Complaints: “No odour issues found or reported.”

Operational Issues/Causes: No data.

Actions: No data.

PM – Cool – Rain.

All OMU's in use.

Observations/Complaints: “No odour issues.”

Operational Issues/Causes: No data.

Actions: No data.

Sunday 1st January 2023:

AM – Cool – Cloudy.

All OMU's in use.

Observations/Complaints: “No odour issues found or reported.”

Operational Issues/Causes: No data.

Actions: No data.

PM – Cool – Rain.

All OMU's in use.

Observations/Complaints: “No odour issues found or reported.”

Operational Issues/Causes: No data.

Actions: No data.

Monday 2nd January 2023:

AM – Cold – Cloudy with Sunny Spells.

All OMU's in use.

Observations/Complaints: “No odour issues.”

Operational Issues/Causes: No data.

Actions: No data.

PM – Cold – Clear Night.

All OMU's in use.

Observations/Complaints: “No odour issues found or reported.”

Operational Issues/Causes: No data.

Actions: No data.

Tuesday 3rd January 2023:

AM – Cold – Sunny with Patchy Clouds.

All OMU's in use.

Observations/Complaints: “No odour (sic) issues.”

Operational Issues/Causes: No data.

Actions: No data.

PM – Cold – Overcast Night.

All OMU's in use.

Observations/Complaints: "No odour issues found or reported."

Operational Issues/Causes No data.

Actions: No data.

Digesters

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

Digester 5 – In use – seal level approx. 18” below coping stones - Seal weak and bubbling.

Digester 6 - In use – seal level approx. 2ft below coping stones - Seal weak and bubbling.

Digester 7 - In use – seal level approx. 3ft below coping stones - Seal weak and bubbling – Bell height high requiring draw down of Biogas.

Digester 8 - In use – seal level approx. 4ft below coping stones - Seal weak and bubbling.

Digester 9 - In use – seal level approx. 2ft below coping stones – Seal weak and bubbling.

Digester 10 - In use – seal level approx. 4ft below coping stones - Seal weak and bubbling.

Digester 11 - In use – seal level approx. 2ft below coping stones – Seal weak and bubbling.

Digester 12 - In use ? – seal level approx. 1ft below coping stones – Hoses from Tank 14 (currently out of service and undergoing maintenance) over-pumping into Tank 12.

Digester 13 - In use – seal level approx. 18” below coping stones - Seal weak and bubbling.

Digester 14 – Out of use.

Digester 15 – Out of use.

Digester 16 – Out of use.

Digester 17 - In use – seal level approx. 4ft below coping stones - Seal weak and bubbling.

Digester 18- In use – seal level approx. 4ft below coping stones - Seal weak and bubbling.

Digester 19 - In use – seal level approx. 5ft below coping stones - Seal weak and bubbling.

Digester 20 - In use – seal level approx. 6ft below coping stones - Seal weak and bubbling.

GENERAL

Sludge Screening House

All doors open at time of inspection. Roller shutter currently missing and awaiting replacement following damage – opening has been screened temporarily.

Imported Sludge

There were 47m³ imports in preceding seven days.

Final Settlement Tanks East Side of Works

The 8 circular tanks previously used as PSTs are now being used as final tanks (71-78) – no issues.

East Side Raw Sludge Screen House

Doors open at time of inspection.

West Side Aeration Lanes (Old)

Battery C aeration feed channel 100% obstructed in one channel (left) – requires jetting (TW advise that there is continuing flow below surface).

West side primary settlement tanks (PST)

Rectangular PSTs – no issues

Circular PST's 9, 10 & 11 in use – no issues. Number 12 drained down.

New Works (West Side) Battery E

No issues.

Pasteurisation Plant

Streams 1, 2, 6, 10 and 11 out of service.

Skips

2x small (blue) skips – rear of sludge screen house both empty.

1x open container grit skip (full) uncovered and 1x 10-Yard Rag skip (covered) at rear of Sludge Screening House.

1x open 8-Yard skip (scrap metal) in Service Road by Pasteurisation Plant.

1x 10-Yard enclosed General Waste skip in Service Road at rear of East Raw Sludge Screening House.

Odour Control Unit (OCU) performance monitoring – No data

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	No data	Unknown	Unknown
Main pumping station outlet	No data	0.2	Unknown
East OCU	No data	0.05	Unknown
West inlet OCU	No data	0.05	Unknown
Sludge reception inlet	No data	Unknown	Unknown
Sludge reception outlet	No data	0.8	Unknown
Thickening plant inlet	No data	Unknown	Unknown
Thickening plant outlet	No data	0.6	Unknown
Transfer PS inlet	No data	Unknown	Unknown
Transfer PS outlet	No data	0.5	Unknown
New West inlet (OCU11)	No data	0.5	Unknown
Pasteurisation Plant (OCU12)	No data	0.5	Unknown
GBT Plant OCU Outlet	No data	Unknown	Unknown