

# Mogden Sewage Treatment Works

**TW Site Inspection** 

Date of inspection: Tuesday 2 <sup>nd</sup> November (13:00pm)	
Attendees: Mr Z Kadri (London Borough of Hounslow), Caitlin Simmonds	(Thames Water)
LB Hounslow Observation	Thames Water Action / Response
Storm Water Storage Tanks (SWST)	
<b>Tank 1A</b> was empty however some patches of dry grit across the tank. Hoppers 1, 2 & 3 were drained down.	
<b>Tank 1B</b> was empty however wet patches of grit to the sides of the tank. Hoppers 1, 2 & 3 were drained down.	
<b>Tank 2A</b> was empty however wet patches of grit to the sides of the tank. Hoppers 1, 2 & 3 were drained down.	
<b>Tank 2B</b> was empty however wet patches of grit to the sides of the tank. Hoppers 1, 2 & 3 were drained down.	
<b>Tank 3A</b> was empty however thick layer of grit across the surface of the tank. Hoppers 1, 2 & 3 were drained down.	
<b>Tank 3B</b> was empty however wet patches of grit across the surface of the tank. Hoppers 1, 2 & 3 were full and needed draining down.	

Tanks 4A, 4B, 5A & 5B All tanks are covered and odour controlled. Unable to gauge condition as lighting system still not working.
<b>Tank 6A</b> was empty and clean however hoppers 1, 2 & 3 were full and needed draining down.
<b>Tank 6B</b> was empty but had a thick layer of sludge and grit across the surface of the tank. Hoppers 1, 2 & 3 was in need of draining down.
<b>Tank 7A</b> was empty but had a thick layer of sludge and grit across the surface of the tank. Hoppers 1, 2 & 3 were in need of draining down – (Shallow hoppers)
<b>Tank 7B</b> was empty and had patches of sludge and grit across the surface of the tank. Hoppers 1, 2 & 3 were in need of draining down – (Shallow hoppers)
<b>Tank 8A</b> was empty and had patches of thick sludge and grit across the surface of the tank. Hoppers 1, 2 & 3 were in need of draining down.
<b>Tank 8B</b> was empty and had patches of thick sludge and grit across the surface of the tank. Hoppers 1, 2 & 3 was in need of draining down.
<b>Storm Feed Channel</b> - The level of effluent in both feed channels was low and bottomed out in places where thick grit islands were noticeable. In places the effluent looked murky and muddy but no signs of fatty deposits.
<u>Complaints</u>
The Council received 0 complaints by telephone in the preceding week.
The Council received 0 complaints via the on-line web system and no complaint via email in the preceding week.

# **Odour Monitors**

The odour readouts (H<sub>2</sub>S) for all monitors that were providing data on 2/11/2021 at the time of the inspection are below.

Monitor 1	0.000	ppm	13:39pm
Monitor 2	0.001	ppm	13:39pm
Monitor 3	0.000	ppm	13:39pm
Monitor 4	0.004	ppm	13:39pm
Monitor 5	0.011	ppm	13:39pm
Monitor 6	0.000	ppm	13:39pm
Monitor 7	0.004	ppm	13:39pm
Monitor 8	0.007	ppm	13:39pm
Monitor 9	0.000	ppm	13:39pm
Monitor 10	0.000	ppm	13:39pm
Monitor 11	0.000	ppm	13:39pm
Monitor 12	0.000	ppm	13:39pm
Monitor 13	0.000	ppm	13:39pm
Wind Speed	4.768	mph	13:39pm
Wind Direction	268.087		13:39pm

# Odour Log (Thames)

DAY SHIFT

Temp. Warm

Weather. Sunny with patchy clouds. Odour Readings. All OMU's in operation.

Time: 17:30.

Observations / Customer Complaint. No odour issues. Operational issues / causes observed No odour issues.

Actions Taken. Blank. **NIGHT SHIFT** 

Temp. Cool.

Weather. Clear night.

Odour Readings. All OMU's in operation. Time: 05:30. Observations / Customer Complaint. No odour issues. Operational issues / causes observed. Blank. Actions Taken. Blank. Thursday 28<sup>th</sup> October 2021 DAY SHIFT Temp. Cool. Weather. Cloudy with sunny spells. Odour Readings. All OMU's in operation. Time: 17:30 Observations / Customer Complaint. No odour issues found or reported. Operational issues / causes observed. Blank. Actions Taken. Blank. **NIGHT SHIFT** Temp. Warm. Weather. Overcast Night. Odour Readings. All OMU's in operation. Time: 05:30. Observations / Customer Complaint. No odour issues found or reported. Operational issues / causes observed. Blank. Actions Taken. Blank Friday 29th October 2021 DAY SHIFT Temp. Cool. Weather. Rain. Odour Readings. All OMU's in operation. Time: 17:30. Observations / Customer Complaint. No odour issues found or reported. Operational issues / causes observed. Blank. Actions taken. Blank. **NIGHT SHIFT** Temp. Cool.

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	Time: 17:30.	
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	reported.	
	Operational issues / causes observed. Blank.	
	Actions taken. Blank.	
NIGHT SHIFT	NIGHT SHIFT	

Temp. Cool. Weather. Overcast Night. Odour Readings. All OMU's in operation.	
Time: 05:30.	
Observations / Customer Complaint. No odour issues found or	
reported.	
Operational issues / causes observed. Blank.	
Actions Taken. Blank.	
Monday 1 <sup>st</sup> November 2021	
DAY SHIFT	
Temp. Cool	
Weather. Sunny	
Odour Readings. All OMU's in operation. Time: 17:30.	
Observations / Customer Complaint. No odour issues found or	
reported.	
Operational issues / causes observed. Blank.	
Actions taken. Blank.	
NIGHT SHIFT	
Temp. Cold.	
Weather. Clear Night.	
Odour Readings. All OMU's in operation.	
<b>Time:</b> 05:30.	
Observations / Customer Complaint. OM5 spiked to 0.026 at 18:50.	
Operational issues / causes observed. Blank.	
Actions Taken. Blank.	
Tuesday 2 <sup>nd</sup> November 2021	
DAY SHIFT	
Temp. Cool.	
Weather. Sunny.	
Odour Readings. All OMU's in operation. Time: 17:30.	
Observations / Customer Complaint. No odour issues found or	
reported.	
Operational issues / causes observed. Blank.	
Actions taken. Blank.	

NIGHT SHIFT
Temp. Cold.
Weather. Clear night
Odour Readings. All OMU's in operation.
Time: 05:30.
Observations / Customer Complaint. OM5 0.020ppm 19:20, OM8
0.024ppm 19:17, OM4 0.019ppm 20:03.
Operational issues / causes observed. Blank.
Actions Taken. Blank.

### Sludge Dip Records

Date	West PSTs 1	West PSTs 2	West PSTs 3	West Total	East PSTs	Grand Total
			All un	its in m <sup>3</sup>		
OMP limit	500					
29/10/2021	0	885	885	1770	1425	3195
01/11/2021	0	1236	1030	2266	1577	3843
03/11/2021	0	1236	1030	2266	1425	3691

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.

#### Imported Sludge

There have been an average of **12 imports** of sludge per day in the preceding week.

### **No.5 Pumping Station**

The doors of No.5 pumping station were open at the time of the inspection. Slight unpleasant / offensive odour was noticeable.

### Sludge Import Area

It was noted that the condition around the sludge import area was much improved and noticeably clean. No odours witnessed .

# **Raw Sludge Screening House**

The large roller shutter door of the Raw Sludge Screening building were CLOSED at the time of the inspection.	
Digesters	
Digesters 1-4 Out of use (permanent).	
Thames advised of a long term project currently initiated to bring these units back into service that will require significant investment.	
Digester 5 Out of service.	
<b>Digester 6</b> was in service and had a good low sludgy seal – No evidence of recent/previous sludge spillages.	
<b>Digester 7</b> was in service and had a low wet seal that was bubbling off gas, it was noted that the seal level was low. A spill had also taken place on the far side of the digester nearest the service Road that required cleaning up. This side was also noticeably erupting as usual.	
<b>Digester 8</b> was in service and had a low thick sludgy seal. No evidence of previous spillages. Coping stones were tidy.	
<b>Digester 9</b> was in service and had a high thick sludgy seal – no evidence of spillage.	
<b>Digester 10</b> was in service and had a low wet moist pasty seal. No signs of any spillages.	
<b>Digester 11</b> was in service and had a low thick sludgy seal. No signs of previous spillages and coping stones were clean.	
Digester 12 Out of service.	
<b>Digester 13</b> was in service and had a thick sludgy seal that was approx. 2ft below the coping stone.	
<b>Digester 14</b> was in service and had a low level wet seal that was approx. 2ft below the coping stone.	

Digester 15 Out of service.
<b>Digester 16</b> was in service and had a wet seal that was bubbling off minimal amounts gas. No signs of previous spillage.
<b>Digester 17</b> was in service and had a low level thick sludgy stable seal.
Digester 18 Out of service.
<b>Digester 19</b> was in service and had a low level sludgy seal- no signs of previous spillages.
<b>Digester 20</b> was in service and had a wet seal. it was noted that the seal level was low approx. 2ft below coping stone. No sign of previous spillages.
Anti-foaming agent is in use, which TW advised was also being applied manually to all operational digesters.
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).
All tanks were in operation at the time of the inspection and had surfaces covered with algae. There was no evidence of fatty deposits on the
surface. The hose on the arm was rotating and clearing off any remaining deposits. No odours or offensive odours witnessed.
<u>Skips</u>
On the East side there were two 14yds open skips- both skips contained
a small amount of general rubbish & inert material. Tarpaulin was present but not covering the skips.

There was one 20yds open bulk carrier that contained grit, no tarpaulin cover was in place.

There was one was one 14yds skip adjacent to the Sludge Import area (West of the works) that contained inert material. There was no tarpaulin cover over or near the skip.

On the West side of the works just after the pumping station there was a 14yds Biffa skip in situ filled with some inert material and general waste. The skip was covered with tarpaulin.

# East Side Screen House

The doors at one end of the screen house were open at the time of the inspection. No staff were seen working inside. No other issues appeared evident.

# **Return Activated Sludge Channel**

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

The far side channel was clogged along 80% of its length, there was a significant number of weeds which have been growing out of it and through the steel grating. This has been in the same condition most part of the year.

### West side primary settlement tanks (PST)

Rectangular PSTs are now covered and odour controlled. TW advised no issues.

Circular PST's 9, 10 and 11 were all in use and had relatively fat free surfaces. Slight algae covered the surfaces of the PSTs.

No other issues were evident with these tanks.

Circular PST 12 is still out of service.

#### **Pasteurisation Plant**

The pasteurisation plant is in service. TW advised 10 streams are currently operational.

### Section 106 agreement

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

#### West Side Aeration Lanes

The surface area of the mixed liquor feed channel serving the aeration lanes of E-Battery was mostly free-flowing between lanes 22-25 - A lot better condition than previous visits. Progress has been made with this channel. All the lanes in E Battery were distinct and dividing walls were visible. The sprinkler systems were in operation.

### New Inlet Works (West Side)

No issues appeared evident at the new inlet works and everything appeared to be in a good tidy order.

#### Odour Control Unit (OCU) performance monitoring: 02/11/2021

Plant	Reading (ppm)	Action Level (ppm)	Compliant
Main pumping station inlet	Not provided	Unknown	Unknown
Main pumping station	0.00ppm	0.2	Unknown
outlet	0.00ppm		
	0.00ppm		

East OCU	0.00ppm	0.05	Yes
	0.00ppm	0.05	162
	0.00ppm		
West islat OCU		0.05	Vaa
West inlet OCU	0.00ppm	0.05	Yes
	0.00ppm		
	0.00ppm		<u></u>
Sludge reception inlet	Not provided	Unknown	Unknown
Sludge reception outlet	Not provided	0.8	Unknown
Thickening plant inlet	Not provided	Unknown	Unknown
Thickening plant outlet	0.21ppm	0.6	Yes
_	0.18ppm		
	0.19ppm		
New West inlet (OCU 11)	0.00ppm	0.5	No
, ,	0.00ppm		
	0.00ppm		
Pasteurisation (OCU 12)	0.33ppm	0.5	Yes
	0.28ppm		
	0.27ppm		
Transfer PS inlet	0.81ppm	Unknown	Unknown
	0.78ppm	Onarown	Officient
	0.96ppm		
Transfer PS outlet	0.00ppm	0.6	Yes
Transier FS outlet		0.0	165
	0.00ppm		
	0.00ppm		
GBT Plant OCU Outlet	0.00ppm	Unknown	Unknown
	0.00ppm		
	0.00ppm		