

# Pool Compliance Report

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<b>Client</b>	Mersey Grand Hotel & Spa
<b>Site</b>	Liverpool Waterfront, L3 4AA
<b>Period</b>	1 to 30 April 2026
<b>Report ID</b>	R-2026-04-MGH
<b>Prepared by</b>	AquaAssure

# The answer at a glance.

This report covers all water testing, plant equipment maintenance, and compliance activity at Mersey Grand Hotel & Spa for April 2026. The site operates under HSG179 and PWTAG guidance, and is monitored continuously by AquaAssure.

<p><b>96%</b> Compliance score</p>	<p><b>0</b> Critical incidents</p>	<p><b>4</b> Out-of-range, all resolved</p>	<p><b>278</b> Tests logged</p>
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## Headline findings

The site maintained full compliance against all 12 HSG179 and PWTAG core requirements throughout the reporting period. Two minor incidents were recorded, both resolved within the same shift. One PPM task is currently overdue and is flagged for immediate action.

All required water testing was completed within tolerance windows. Microbiological testing returned no positive results. Operator competency records remain current for all named personnel.

## Items requiring attention

#	Item	Severity	Owner	Target
1	Plant room emergency lighting test overdue	Medium	D. Andrews	03 May 2026
2	Combined chlorine elevated on 28 April, monitor	Low	J. Henley	02 May 2026

# HSG179 and PWTAG status, by requirement.

Each requirement is verified against live data captured throughout the reporting period. "Last verified" reflects the most recent qualifying record.

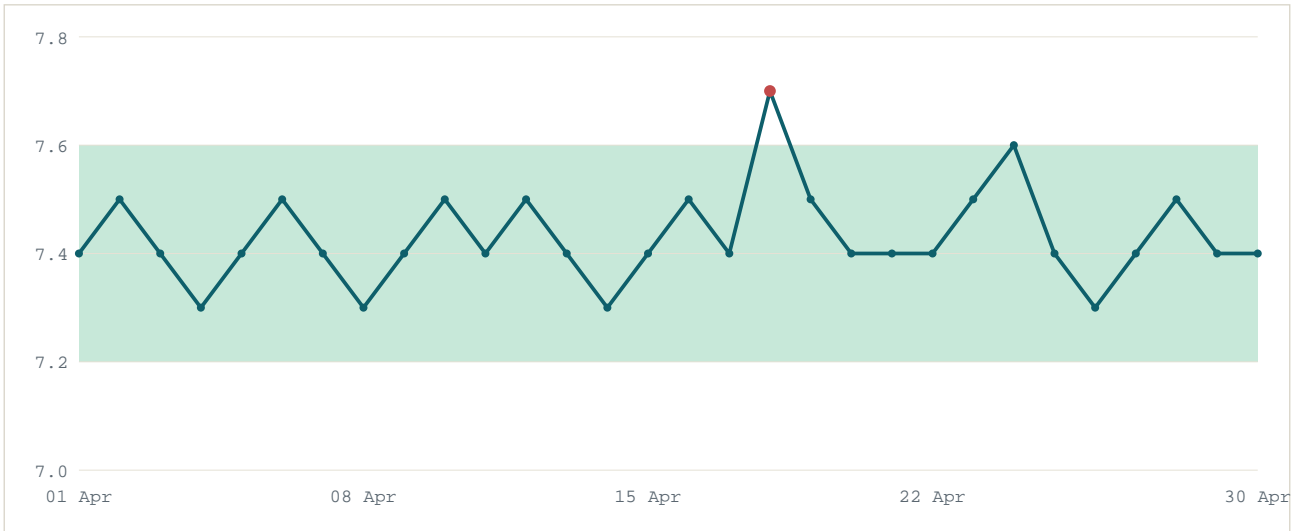
Standard	Requirement	Status	Last verified
HSG179 §3.2	Bathing water testing 3x daily	COMPLIANT	30 Apr 2026
HSG179 §4.1	Coagulation and disinfection control	COMPLIANT	30 Apr 2026
HSG179 §4.4	Combined chlorine below 0.5 mg/L	WATCH	28 Apr 2026
HSG179 §5.3	Microbiological testing monthly	COMPLIANT	15 Apr 2026
HSG179 §6.1	Plant equipment inspection schedule	COMPLIANT	29 Apr 2026
HSG179 §7.2	Operator competency records	COMPLIANT	01 Apr 2026
PWTAG CoP §2.1	Pool water turnover requirements	COMPLIANT	30 Apr 2026
PWTAG CoP §3.4	pH range 7.2 to 7.6	COMPLIANT	30 Apr 2026
PWTAG CoP §4.2	Free chlorine 1.0 to 3.0 mg/L	COMPLIANT	30 Apr 2026
PWTAG CoP §5.1	LSI within $\pm 0.5$	COMPLIANT	30 Apr 2026
PWTAG CoP §6.3	Backwash records	COMPLIANT	29 Apr 2026
PWTAG TN §16	Disinfection by-product control	ACTION	28 Apr 2026

**Note on combined chlorine.** A reading of 0.6 mg/L was recorded on 28 April, exceeding the 0.5 mg/L threshold. The system flagged the deviation in real time and notified the duty holder. Superchlorination was performed and the level returned to range within 6 hours. See section 04 for full incident detail.

03 · WATER TESTING

# pH stability across the month.

Daily mean pH readings for the main pool, plotted against the PWTAG acceptable range of 7.2 to 7.6 (shaded). Out-of-range points are highlighted.



Acceptable range · 7.2 to 7.6 · per PWTAG Code of Practice §3.4

## Sample week — full reading log.

Representative week, 22 to 28 April. Full log available in appendix A.

Date	Time	Pool	pH	Free Cl	Combined	Alk	Temp	LSI	Status
Mon 22 Apr	06:42	Main	7.4	1.8	0.3	120	29.5	+0.12	OK
Tue 23 Apr	06:38	Main	7.3	1.7	0.3	118	29.4	+0.08	OK
Wed 24 Apr	06:51	Main	7.6	1.6	0.3	122	29.9	+0.21	OK
Thu 25 Apr	06:44	Main	7.4	1.8	0.5	120	29.5	+0.14	OK
Fri 26 Apr	06:39	Main	7.3	2.0	0.4	118	29.4	+0.10	OK
Sat 27 Apr	07:10	Main	7.4	1.9	0.5	120	29.6	+0.13	OK
Sun 28 Apr	06:48	Main	7.5	1.7	0.6	120	29.7	+0.15	WATCH

04 · INCIDENTS

# Out-of-range events and resolution.

Every event where a parameter fell outside its tolerance window. AquaAssure flagged each one in real time and routed alerts to the named duty holder.

Date · Time	Parameter	Reading	Threshold	Action taken	Resolved
28 Apr · 06:48	Combined Cl	0.6 mg/L	< 0.5 mg/L	Superchlorination dose at 09:00. Backwashed	Resolved at 14:00
18 Apr · 19:22	pH	7.7	7.2 to 7.6	Acid feed adjusted by lead operator. Re-tested	Resolved at 20:00
11 Apr · 14:05	Free Cl	0.9 mg/L	> 1.0 mg/L	Chlorinator output increased. Re-tested every 30 min	Resolved at 16:00
04 Apr · 06:30	Turbidity	0.6 NTU	< 0.5 NTU	Filter inspection. Replaced media on filter #	Resolved at 12:00

## Mean time to resolution

<p><b>2h 47m</b></p> <p>Average time from flag to resolution</p>	<p><b>100%</b></p> <p>Incidents resolved within shift</p>	<p><b>0</b></p> <p>Pool closures required</p>
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## 0 5 · P L A N N E D P R E V E N T A T I V E M A I N T E N A N C E

# Plant equipment maintenance status.

Service intervals are derived from manufacturer guidance and PWTAG technical notes. Each completion is recorded with operator ID, time stamp, and photo evidence where appropriate.

Asset	Last service	Next due	Status
Main pool circulation pump (P-01)	12 Apr 2026	12 Jul 2026	CURRENT
Main pool circulation pump (P-02)	12 Apr 2026	12 Jul 2026	CURRENT
Filter A · backwash	29 Apr 2026	06 May 2026	CURRENT
Filter B · backwash	29 Apr 2026	06 May 2026	CURRENT
Granudos S5 dosing unit	03 Apr 2026	03 Jul 2026	CURRENT
ORP sensor calibration	15 Apr 2026	15 May 2026	CURRENT
UV unit lamp inspection	01 Apr 2026	01 Oct 2026	CURRENT
Heat exchanger	08 Apr 2026	08 Jul 2026	CURRENT
Surge tank inspection	24 Apr 2026	24 Oct 2026	CURRENT
Plant room emergency lighting	20 Mar 2026	20 Apr 2026	OVERDUE

**Action required.** Plant room emergency lighting test is now 8 days overdue. Site to schedule remedial test before 03 May 2026 to maintain HSG179 §6.1 compliance.

# Lab results, monthly.

Samples taken on 15 April 2026 by site operator and submitted to UKAS-accredited laboratory ALS Environmental (lab ref ALS-MGH-2604). Results received 18 April.

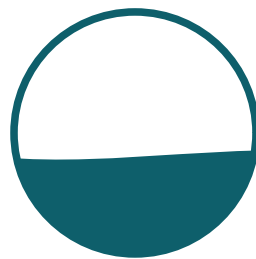
Parameter	Result	Threshold	Status
Heterotrophic plate count (37°C)	<10 cfu/mL	<100 cfu/mL	<b>PASS</b>
Coliforms	Not detected	0 cfu/100mL	<b>PASS</b>
E. coli	Not detected	0 cfu/100mL	<b>PASS</b>
Pseudomonas aeruginosa	Not detected	0 cfu/100mL	<b>PASS</b>
Staphylococcus aureus	Not detected	0 cfu/100mL	<b>PASS</b>
Legionella spp.	Not detected	<100 cfu/L	<b>PASS</b>

All parameters returned satisfactory results. No further action required. Next sampling scheduled for 15 May 2026.

07 · CERTIFICATION

# Audit trail certificate.

This document and all supporting records are reproducible from the AquaAssure platform. Every reading, every action, every alert is time stamped and operator signed.



This is to certify that

## Mersey Grand Hotel & Spa

operated its commercial swimming pool in compliance with HSG179 and PWTAG guidance throughout the period 1 to 30 April 2026, with all variances recorded, addressed, and resolved within tolerance.

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Signed

**Danny Andrews**

Facilities Manager · Duty holder

Verified by

**AquaAssure**

Cert ID · AA-VR-04262026-MGH

# How this report was produced.

Every figure in this report is generated automatically from records captured by AquaAssure during the reporting period. There is no manual data entry between operator and inspector.

## Data capture

Operators record water tests on mobile devices, three times daily as a minimum. Tests are time stamped at the point of submission and tagged to the operator's named account.

## LSI calculation

Langelier Saturation Index is calculated automatically from pH, temperature, calcium hardness, total alkalinity and total dissolved solids.

## Microbiological testing

Samples are taken monthly and submitted to a UKAS-accredited laboratory. Results are uploaded to AquaAssure on receipt and matched to the originating sample record.

## PPM scheduling

Service intervals are configured per asset, per site. AquaAssure surfaces overdue items on the duty holder dashboard and via push notification.

## Audit trail

Every record carries an immutable operator ID, time stamp, and cryptographic signature. The audit log captures every change, every export, every access.

## Compliance mapping

Each requirement under HSG179 and PWTAG is mapped to one or more data sources within AquaAssure.

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