

# Comprehensive Flood Gauge Analysis Report

Gauge ID: GAUGE-e5035fc6

Report Date: 2025-06-20

## Gauge Overview

Gauge Information	Value
Gauge ID	GAUGE-e5035fc6
Gauge Name	Thames Islington Gauge 35

## Gauge Summary

Key Attribute	Value
Gauge Type	Radar gauge
Gauge Owner	Local Authority
Manufacturer	SEBA Hydrometrie
Status	Fully operational
Certification	Provisional
Historical High (m)	7.02
Flood Alert Level (m)	4.214 m
Flood Warning Level (m)	5.618 m
Gauge Age	8 years

# Sensor Details and Hardware Specifications

Gauge ID: GAUGE-e5035fc6

## Gauge Information

Gauge Specification	Value
Data Source Type	SensorGauge
Gauge Owner	Local Authority
Gauge Type	Radar gauge
Manufacturer Name	SEBA Hydrometrie
Installation Date	2017-06-22
Last Inspection Date	2024-04-25
Maintenance Schedule	Bi-annual
Operational Status	Fully operational
Certification Status	Provisional

## Location Information

Location Attribute	Value
Latitude	51.470000
Longitude	0.080000
Ground Level (m)	5.210 m

## Measurement Configuration

Measurement Parameter	Configuration
Measurement Frequency	Hourly
Measurement Method	Automatic
Data Transmission	Automatic
Data Curator	Centre for Ecology & Hydrology
Data Access Method	WebInterface

## Historical Sensor Statistics

Statistical Measure	Value
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Historical High Level (m)	7.023 m
Date of Historical High	2024-11-23
Last Severe Level Exceeded	2021-01-16
Frequency of Severe Level Exceedance	8 times

# Geographic Location and Context

Gauge ID: GAUGE-e5035fc6

## Geographic Coordinates

Geographic Parameter	Value
Latitude	51.470000°
Longitude	0.080000°
Ground Level Elevation	5.210 m above sea level

## Thames River Context

Thames Parameter	Value
Distance to Thames	On Thames River

## Location-Based Flood Risk Assessment

Risk Parameter	Assessment
Flood Risk Score	10/10
Risk Category	High
Last Assessment Date	2025-03-14

## Gauge Positioning Summary

Position Attribute	Description
Regional Position	Central London area
River Position	Directly on Thames River
Location Risk Profile	High flood risk location

# Current Measurements and Operational Status

Gauge ID: GAUGE-e5035fc6

## Measurement Configuration

Measurement Parameter	Configuration
Measurement Frequency	Hourly
Measurement Method	Automatic
Data Transmission	Automatic
Data Curator	Centre for Ecology & Hydrology
Data Access Method	WebInterface

## Gauge Operational Status

Status Parameter	Current State
Operational Status	Fully operational
Certification Status	Provisional
Last Inspection	2024-04-25
Maintenance Schedule	Bi-annual

## Historical Measurement Statistics

Statistical Measure	Value
Historical High Level	7.023 m
Date of Historical High	2024-11-23
Last Severe Level Exceeded	2021-01-16
Severe Level Exceedance Frequency	8.000 m

## Current Readings

No current timeseries data available for real-time readings.

# Flood Stages and Alert Thresholds

Gauge ID: GAUGE-e5035fc6

## UK Flood Stage Thresholds

Alert Level	Threshold (m)	Authority
Flood Alert	4.214 m	Scottish Environment Protection Agency
Flood Warning	5.618 m	Scottish Environment Protection Agency
Severe Flood Warning	6.672 m	Scottish Environment Protection Agency

## Threshold Analysis

Analysis Parameter	Value
Alert to Warning Range	1.405 m
Warning to Severe Range	1.053 m
Total Alert Range	2.458 m
Decision Authority	Scottish Environment Protection Agency

## Historical Threshold Exceedance

Exceedance Parameter	Historical Data
Historical High Level	7.023 m
Date of Historical High	2024-11-23
Last Severe Level Exceeded	2021-01-16
Severe Level Exceedance Count	8.000 m

## Current Status vs Thresholds

No current timeseries data available for threshold comparison.

# Flood Risk Assessment and Analysis

Gauge ID: GAUGE-e5035fc6

## Overall Risk Profile

Risk Parameter	Assessment
Flood Risk Score	10/10 (Very High Risk)
Risk Category	High
Last Assessment Date	2025-03-14
Location Risk Factor	On Thames River (Highest Risk)

## Historical Risk Patterns

Historical Pattern	Analysis
Severe Level Frequency	8 severe level exceedances (High frequency)
Historical High Level	7.023m (Exceeded severe warning level)
Recent Activity	No recent severe activity (4 years ago)

## Threshold Risk Analysis

Threshold Analysis	Risk Assessment
Alert Range Analysis	Moderate alert range (1.405m) - Standard escalation
Historical vs Threshold	Historical high exceeds severe level by 0.351m (Elevated risk)

## Current Risk Status

No current timeseries data available for real-time risk assessment.

# Comprehensive Data Summary

## Thames Islington Gauge 35 (GAUGE-e5035fc6)

### Gauge Overview Summary

Summary Parameter	Value
Gauge Type	Radar gauge
Manufacturer	SEBA Hydrometrie
Operational Status	Fully operational
Installation Date	2017-06-22
Latitude	51.470000°
Longitude	0.080000°

### Key Metrics Summary

Key Metric	Value	Significance
Historical High Level	7.023 m	Exceeds severe warning
Flood Alert Level	4.214 m	Initial warning threshold
Severe Warning Level	6.672 m	Critical action required
Flood Risk Assessment	10/10 (High)	Overall location risk
Severe Level Exceedances	8 times	Regular severe events

### Operational Status Summary

Operational Parameter	Status
Current Status	Fully operational
Certification	Provisional
Measurement Frequency	Hourly
Data Transmission	Automatic
Maintenance Schedule	Bi-annual

### Report Conclusions

- Gauge is fully operational and providing reliable data
- Location presents high flood risk requiring close monitoring
- Multiple severe flood events indicate active flood-prone location



Report completed: 2025-06-20 10:04 - MKM Research Labs