

BATHING WATER PROFILE

Environmental Protection (EP) has produced a bathing water profile for all monitored bathing waters in Jersey. The profile summarises EP's knowledge of a bathing water, including its quality and details of any improvements aimed at providing better water quality for bathers.

The bathing water profiles are a requirement of the revised Bathing Water Directive 2006/7/EC.

Name: Bonne Nuit



Beach operator States of Jersey

Details

Monitoring began: 2004

Sampling point location: Lat/Long 49.15 N 2.07 W (see map)

Bathing water quality: Weekly monitoring results are uploaded to the web page at: www.gov.je/water

For details of yearly compliance assessments for this bathing water, please see below.

Bonne Nuit

Annual water quality classification

2015: Sufficient bathing water quality



A classification for each bathing water is calculated annually, based on all of the samples from the previous four years. These classifications, from best to worst, are “excellent”, “good”, “sufficient” or “poor”.

Classification	Thresholds	Confidence level
Excellent	EC: ≤ 250 cfu/100ml; IE: ≤ 100 cfu/100ml	95 th percentile
Good	EC: ≤ 500 cfu/100ml; IE: ≤ 200 cfu/100ml	95 th percentile
Sufficient	EC: ≤ 500 cfu/100ml; IE: ≤ 185 cfu/100ml	90 th percentile
Poor	Values are worse than sufficient	

Escherichia coli (EC)
Intestinal enterococci (IE)

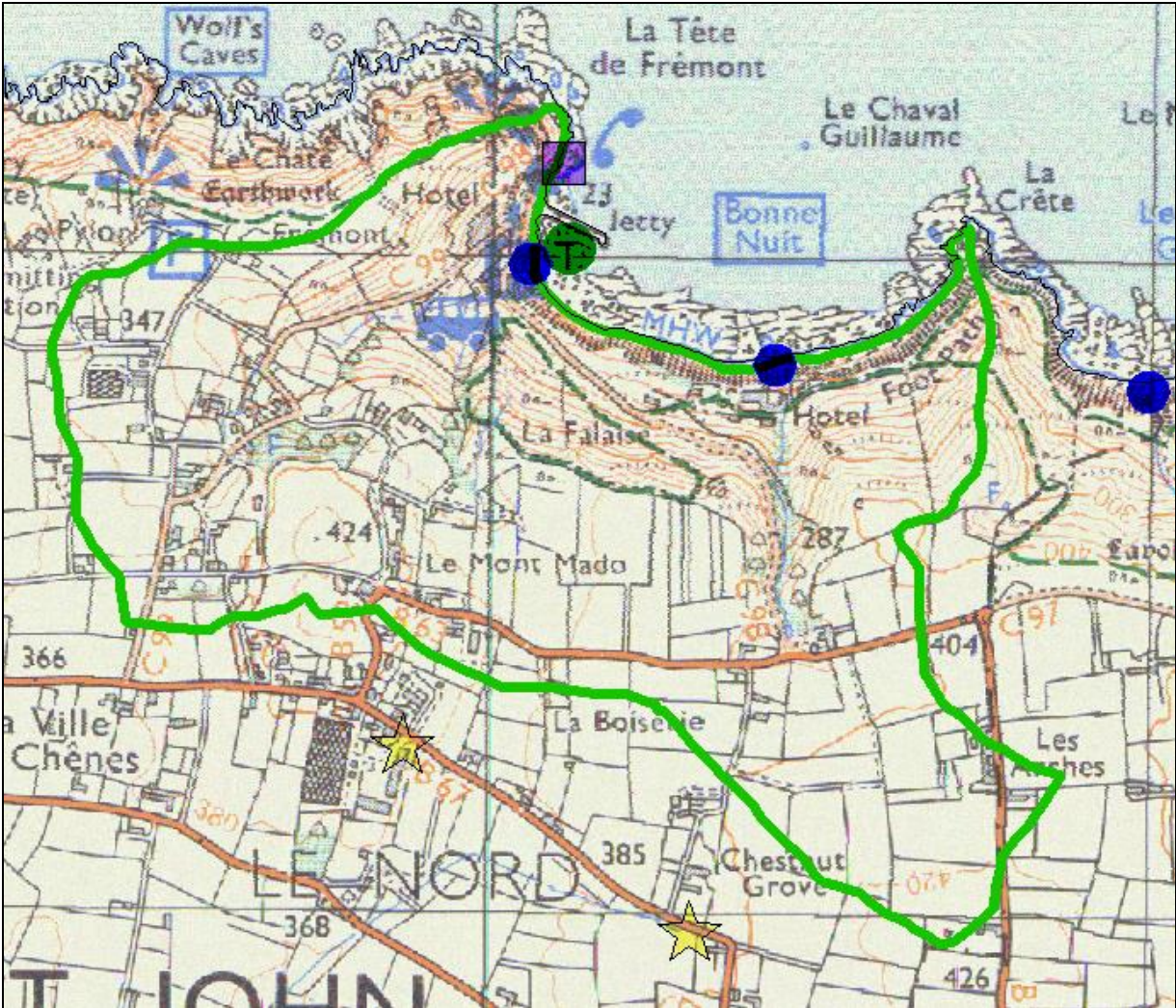
Bathing water description









Bonne Nuit is a small fishing harbour on the north coast of Jersey. The bathing water is situated in a small and shallow bay, approximately 600 m long. The beach composition is mainly shingle and sand and is fairly steeply sloping.

There are two small streams that drain into the bay (see bathing water map). There is a small package sewage treatment plant with tertiary, ultra violet treatment that discharges into the seaward side of the harbour.

During and after heavy rainfall events water quality may deteriorate in streams and outfalls flowing onto the beach.

Bathing water map



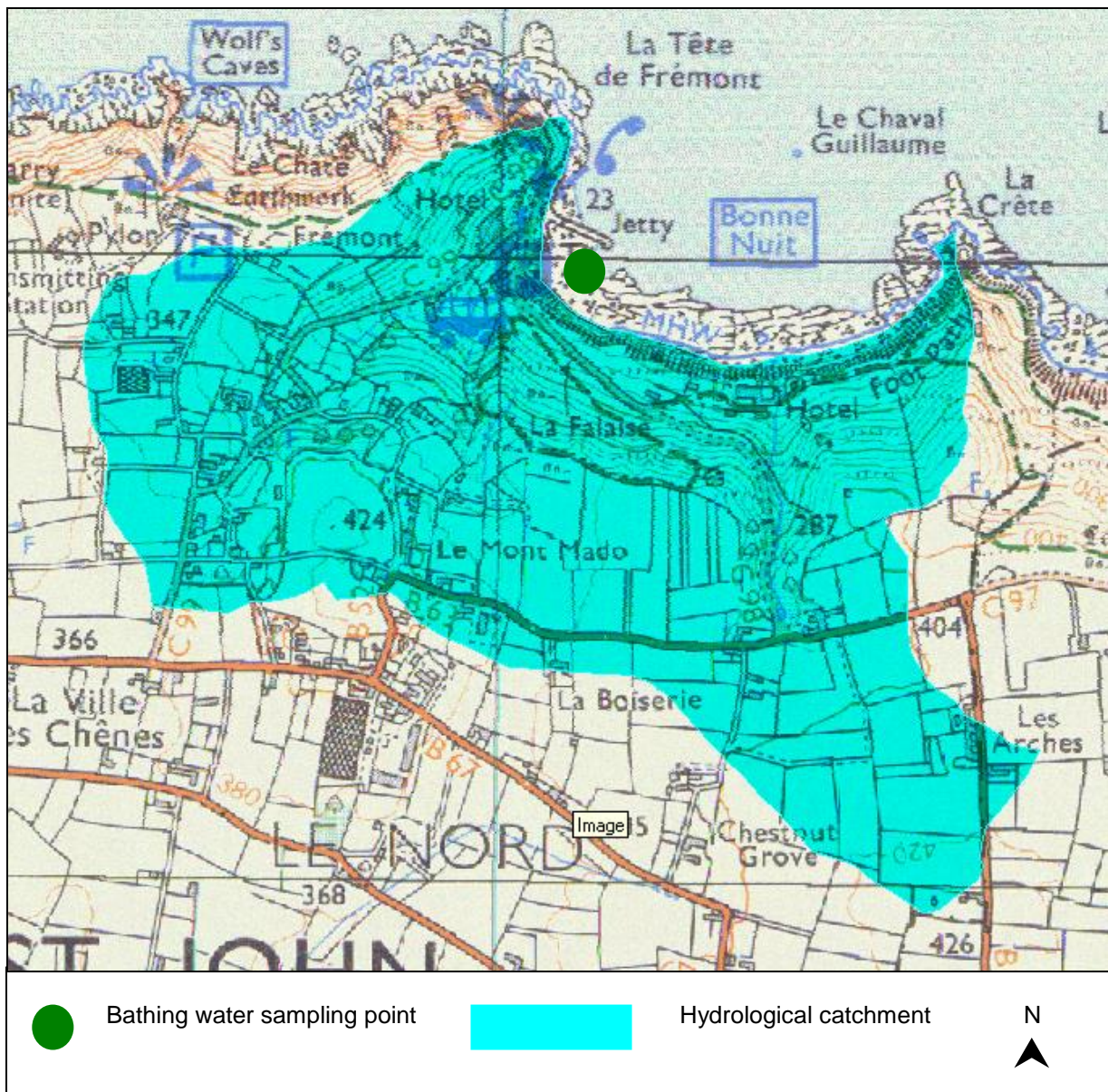
	Bathing water catchment		N
	Sampling point		Stream
	Surface water outfall		Pumping station
	Treated sewage works outfall		Outfall with potential foul storm overflow

Catchment description

The natural drainage (hydrological) catchment surrounding the bathing water is approximately 92 hectares. The lower catchment slopes steeply causing water to run off the land into streams and onto the beach very quickly.

The upper part of the catchment is agricultural split roughly equally between livestock and arable. The lower part of the catchment is very steep and consists of natural vegetation (mainly woodland and cliffs) with a few scattered residential properties and a small hotel.

Catchment map



Pollution management

The quality of the sea is dependant on the type and size of land (the catchment) draining to the coast and the activities undertaken on it.

The following section gives an indication of potential sources of pollution, conditions under which they may arise and measures put in place to drive improvements.

Sewage Treatment Works outfall

The Package Sewage Treatment Plant is continuously monitored on-line, but should the plant fail, to meet required quality standards, the sewage is diverted to a catchment tank situated under the public toilets which has 60m³ storage capacity (1- 5 days depending upon the time of year) prior to the sewage being taken by tanker to the main Sewage Treatment Works at Bellozane. A discharge permit has been issued under the Water Pollution (Jersey) Law 2000 to regulate the discharge. Weekly compliance samples are collected from a designated sampling point within the Bonne Nuit Package Sewage Treatment Plant post ultra violet treatment, and are analysed for Chemical Oxygen Demand (COD), Suspended Solids (SS) and Biochemical Oxygen Demand (BOD). The Package Sewage Treatment Plant has been compliant throughout the five-year period 1 January 2011 to 31 December 2015. The outfall is indicated by the purple square on the bathing water map.

Emergency/Storm overflows

There are no storm overflows within this bathing water catchment.

Misconnections

The misconnection of domestic foul water to surface water drainage can affect the water quality of streams and the sea.

EP is not aware of any current misconnections within the bathing water catchment. One misconnection identified in 2002 was rectified shortly afterwards. A broken foul water pipe belonging to a different property was rectified in 2012.

Surface water outfalls

There is one outfall on the seaward side of the harbour wall that discharges surface water from Les Charrieres de Bonne Nuit and the treated effluent from the package sewage treatment works (see purple square on the bathing water map).

Highway drains

Heavy rain falling on pavements and roads often drains into highway drains surface water sewers, ending up in local streams, and ultimately, the sea.

Highway drains are often connected to streams which could result in the quality of the stream or bathing water becoming adversely affected, especially following periods of heavy rainfall.

Working with the farming community

Approximately 20 poultry are registered to various holdings within this catchment.

During and after periods of heavy rainfall, run-off from agricultural areas will be greatly increased. The quality of the bathing water may be adversely affected as a result of such events.

Working with industry

There is no heavy industry within this catchment.

Working with private owners

More than half of domestic properties are not on the main sewerage system and have private sewage treatment arrangements. EP do not believe these are a source of pollution to the bathing water at present. If any concerns arise, EP will investigate and request immediate remedial action from those responsible.

Streams

Streams can be affected by human or industrial inputs from further up the catchment. Two small streams which run onto the beach at this bathing water (see blue circles on the bathing water map) may sometimes be a source of poorer water quality than usual after heavy rainfall.

Boats

Bonne Nuit is a working harbour and a number of fishing boats are moored in this bathing water. In the summer pleasure craft also moor in this bathing water bringing the total number of boats located here to about 30.

Wildlife

There is a resident duck population of 10 to 20 birds at this bathing water.

Algae

Macroalgae (seaweed) and phytoplankton (microscopic algae) are a natural part of the marine environment.

Seaweed (macroalgae)

EP's current information suggests that the bathing water can be subject to small amounts of seaweed depending on tides and the weather.

Phytoplankton

Phytoplankton (microscopic algae) naturally increase in numbers at certain times of the year. This process is known as a phytoplankton bloom. EP's current information suggests that this bathing water is unaffected by phytoplankton blooms.

Access and Facilities

Parking	•
Easy access	✓
Access by steps	
Refreshments	✓
Deck chair hire	
Watersports	
Toilets	✓
Disabled toilets	✓
Showers	
Lifeguards	

- Limited parking

Further information

To make any comments about the contents of this bathing water profile please send an email to: envprotection@gov.je. Please phone the water pollution hotline on Tel: 709535 to report pollution. For health advice please contact Health Protection Tel: 443712 or visit www.gov.je/HealthProtection

About this document

Original: August 2011

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