

Pollution Incident Report

As at 10/12/2008 10:25:34

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Report Number	2008065	Officer In Charge	██████████
Date Reported to EP	31/07/2008	Time Reported	13:30
Time Action Commenced	13:30	Response Time	00:00

Name / Location of Incident

Oyster Beds

unknown

Foreshore

Grouville

Telephone Number

Mobile Number

Polluter Name / Address

unknown

unknown

Incident Type	Natural	Incident Category	
Controlled Water Affected	N/A	Enforcement Action	Unknown
Reason for Decision			

Report Signed by 1:	Date 1: 07/01/09
Report Signed by 2:	Date 2: 07/01/09
Report Signed by 3:	Date 3: 07/01/09

Incident Log

29/07/08

I obtained water sample results taken by from Le Hurel Outfall by ██████████ (Veterinary Assistant) from ██████████.

03/06/08 1,100 (E.coli cfu)

18/06/08 89,000 (E.coli cfu)

31/07/08

██████████ (Fisheries) collected a sample from seaweed/bird faeces leachate near Le Hurel slipway. TTS have been scraping seaweed from this area and moving it to the tide line north of the oyster beds.

01/08/08

██████████ received verbal confirmation from ██████████ that the E.coli result is above the upper limit of 200 cfu/100ml. Further leachate sample to be collected on 04/08/08 (if present) at time of outfall sample.

Health Protection erected signs between Le Hurel and Royal Jersey Golf course advising the public not to collect wild shellfish.

03/08/08

Heavy rainfall.

04/08/08

08:30 ██████████ asked me to collect water samples from ██████████ at Jersey Oyster Company, St Martin. ██████████ collected water samples from ██████████ which had been collected in coke and lucozade bottles. ██████████ informed me that these were collected from Le Hocq outfall yesterday afternoon at 14:00 and 17:00. Samples had been stored in the shed overnight. ██████████ had driven along the beach yesterday afternoon during the rain to look at the outfalls. ██████████ also informed me that he thought sewage came out of Fauvic outlet during times of high rainfall.

I collected water samples from the following outfalls:

Gorey Pier - no flow

Beach Hotel

Longbeach

Fort Henry

Outfall between Fort Henry & Fauvic

Fauvic
Le Hurel
Outfall between Le Hurel and Seymour - no flow
Seymour slip
Le Bourg 2
Le Bourg 1
Pontac 1
Pontac 2
Le Hocq.

█ and █ collected extra sea water sample at Le Hurel on the BW run.

05/08/08

Outfall and Le Hurel seawater analysis results received

	Coliform bacteria presumptive	E.coli
Le Hurel sea water	78/100ml	25/100ml
Outfalls all	>20,000/100ml	
Outfalls all		>20,000/100ml except
Outfall between Le Hurel and Seymour		20,000/100ml
Seymour slip		2,400/100ml
Le Bourg 2 (?)		8,900/100ml
Le Bourg 1 (?)		3,200/100ml
Pontac 2		5,900/100ml

Discussed results with █ and █. Decided to resample next week under normal flow conditions. █ and I did box plots of outfall project data and 05/08/08 results are not out of the ordinary.

06/08/08

I phoned █ to ask which day would be best to accept samples next week. Due to BW and Trinity monitoring on Mon -Wed, it would be easier to sample on Thursday. I asked █ about thermotolerant faecal coliforms to E.coli ratios. █ informed me that thermotolerant faecal coliforms are likely to be mostly E.coli, but can only say for certain if confirmatory testing is carried out.

07/08/08

█ spoke with █ at Jersey Oyster re results. Manhole cover at Fauvic mentioned. I sent email to █ of photo of Fauvic outlet.

08/08/08

Received two emails from █ at Jersey Oyster asking for maps, future results etc.

09:30 Phoned █ but on holiday. Spoke with █. █ will dig out maps and give me a call back.
09:40 Call put through via reception. █. Lives at █ and concerned about signs as he fishes at low water. Explained signs put up by Health Protection and gave him telephone number on sign 443717.
12:00 Returned call from █. Seen signs and was worried about taking her grandchildren into the sea. I explained that Grouville BW failed guide but passed imperative and passed guide for E.coli at additional sample taken at Le Hurel. Explained after heavy rainfall runoff from fields etc can be washed into sea and expect decrease in water quality. Gave █ Health Protection tel no. for health advice.
12:45 █ phoned back. Several maps covering wide area. Suggested I go and have a look to see what is required. He is in meetings this afternoon and I was on duty so arranged to visit Bellozanne on Monday at 9:30.
16:30 Spoke to █ - shellfish results not received yet.

11/08/08

Drainage map obtained from █ at TTS, Bellozanne.

12/08/08

10:30 Meeting with █, Jersey Oyster. Attended by █ and █. Location of manhole covers obtained by directions from █.
11:30 █ and █ left HDF to locate manhole covers as █ has knowledge of the area. Manhole cover in the pavement by white house located (cover 1 photo). Entered field via track and found second manhole cover (2- photo). Walked tree line to point opposite shed of Eastern Railway line but could not locate cover. Found large pond containing ducks.

15:00 █ and I arrived at Le Hurel. █ and █ (Health Protection) interviewed for BBC Spotlight. Outfall flow medium and colourless. Approx 30 seagulls in the sea off the slipway. Two people swimming.

13/08/08

09.30 █ and █ walked passed outfalls between Le Hurel slip and Fort Henry. Photos were taken of the outfalls - the water appeared clear.

We then walked around the immediate area looking for potential sources of E-coli. We found nothing significant but noticed that a lot of farming activities occur in the area including, sheep and cattle grazing, crop production, hens, glass houses and a number of ponds with ducks. All of which could contribute to the high levels of E-coli in the bay. There appeared to be three farms one of which was a small holding close to the beach.

We also visited a demolition site on the beach front, which had been reported to smell of sewage - nothing was found here either.

09:40 phoned [REDACTED]. Left message on voicemail.

10:10 email sent to [REDACTED] attaching map and photos of man-hole covers in Fauvic area.

Approx 10:30 [REDACTED] and [REDACTED] (Fisheries intern) and I left HDF. Checked outfall at Le Hurel. Outfall flow higher than yesterday, and colourless. [REDACTED] dug several holes in the sand between Le Hurel and Fauvic. Only one filled with water close to tower. Checked Fauvic outlet - flowing but appeared clear. No smell. [REDACTED] lifter flap and sand hoppers were inside the pipe. I collected a sample from the hole filled with water labelled [REDACTED]/13/08/08/01. [REDACTED] took several photos, which are stored on the I drive/Fisheries/ 13/08/08 Le Hurel Beach sample. Passed site where house demolished on the way to the analyst. No smell of sewage following report from [REDACTED].

14/08/08

[REDACTED] and I collected water samples from the following outfalls:

Beach Hotel

Longbeach - no flow

Fort Henry

Outfall between Fort Henry & Fauvic

Fauvic

Le Hurel

Outfall between Le Hurel and Seymour - no flow

Seymour slip - no flow

La Rocque Harbour - no flow

Le Bourg 1

Le Bourg 2

Pontac 1

Pontac 2

Le Hocq

Further sample collected from under the beach between Le Hurel and Fauvic and under the sand at La Rocque Harbour.

No sample collected from pond as considered unsafe after I fell over. [REDACTED], [REDACTED] lives in the white house next to the track. His cousin is [REDACTED] who owns the field but [REDACTED] thought that The Environment Division were looking after it. [REDACTED] knows [REDACTED] and [REDACTED].

[REDACTED] received verbal confirmation from the Analyst that yesterday's (13/08/08) sample under the beach was 135cfu/100ml.

Monday 18/08/08

[REDACTED] collected extra bathing water sample at Le Hurel on BW run.

13.15 [REDACTED] and [REDACTED] collected two sand (water) samples. The first was at Greve D'Azette (control - [REDACTED]18080801) and the second was the just passed Le Hurel slipway ([REDACTED]18080802). Photographs were taken at each site - see file.

Samples taken to the analyst at 13.50 - tested for e-coil.

19/08/08

10:30 [REDACTED] and I met with [REDACTED] and [REDACTED] of TTS at Manhole 1, Fauvic. TTS lifted the two covers. There was water under the RHS facing inland (surface). Collected sample using pot on a stick. Colourless and no odour. Second sample collected from silt under water, turned black but no odour. No evidence of sewage. [REDACTED] found small pond to contain water and not dry. Found light manhole cover by willow tree (further inland to the large pond) ([REDACTED] had informed TTS of its location yesterday). The open pipe beneath was blocked and moss/tree roots removed. Flow started to come from heading towards the sea. [REDACTED] put dye into the pipe. The flow smelt very strongly of sewage. TTS thought this was a private connection and not the main sewer. [REDACTED] and I walked to the large pond. Sewage odour but seemed to be coming from lifted manhole cover. Sample taken from the pond. Did not seem to smell of sewage. Difficulty in locating foul sewer. All walked to the Old Eastern Railway shed. Could not find a manhole cover here. Arranged to meet up with TTS tomorrow after they have scale drawing to locate cover. [REDACTED] and I located further sample points to check the Fauvic outfall. One at the lavoire and one in the stream near Fauvic pumping station. Checked outfall between Fort Henry and Fauvic. Flow was low and appeared clear. Collected sample from under the beach opposite Tower 5, [REDACTED]/19/08/08/01 (sand black in parts) and from under the beach between two sets of steps opposite house extension (pink), [REDACTED]/19/08/08/02. The sand here was normal but the sample smelt similar to sample collected by [REDACTED] sample of 31/07/08.

Received results of outfall sampling 14/08/08

	Coliform bacteria presumptive /100ml	E.coli /100ml
Beach Hotel	18,000	6,000
Fort Henry	>200,000	11,000
Between FH & Fauvic	>200,000	>200,000
Fauvic outlet	27,000	3,000
Le Hurel	130,000	3,000
Le Bourg 1	21,000	3,000
Le Bourg 2	20,000	3,000
Pontac 1	>200,000	130,000
Pontac 2 (slip)	11,000	2,000
Le Hocq	200,000	12,000
Under sand between Fauvic and Le Hurel <1,000 & <1,000		
Under sand La Rocque Harbour <1,000 & <1,000		

20/08/08

11:00 [redacted] and I met [redacted] at TTS [redacted] had located foul sewer cover yesterday and brambles had been cut back to expose this. It is located by the smaller nearer willow tree. Also located further small drain cover nearby and another near the end of the line of trees. [redacted] and [redacted] checked drain cover in the field at the back of a farm pond, whilst I found drain cover in field opposite end of tree line. Walked across stream to try to find drain cover to link up these two covers. Metal detector used but no cover found here. TdF put dye into drain in farm field. Dye did not show up in the field drain that I located. Drain in this field is connected to drain at the end of the tree line. Then walked along far side of stream back towards large pond. Foul drain found using metal detector, buried by vegetation. [redacted] and I followed the stream heading north at the end of the farm field. Followed this round (westerly) past the pond and saw pond outlet. Continued westerly (inland) a small orange pipe was observed by temporary farm accommodation. There was a further wider pipe which was just dripping and then drains from the roof that appeared to go underground. The stream stopped just before the packing shed. We walked through the farm grounds to the road. There was a drainage ditch at the edge of the field across the road but this was dry. Walked along the road and through the next field no other surface streams seen. Returned to the Landrover and drove to the lavoir on the corner of La Rue du Marais a la Cocque. Decided to collect sample here. [redacted] checked pond across the road, but this appeared to be lined. Drove to Fauvic Pumping Station. Walked along the tract to the stream running through the marsh. Decided to sample here downstream of the pumping station and next to field where two cows are grazing.

Received results, by email, of samples taken yesterday under the sand.

[redacted] 19/08/08/01 E.coli 40cfu/100ml

[redacted] 19/08/08/02 E.coli <10cfu/100ml

[redacted] sample collected under sand opposite tower, [redacted] 18/08/08/02 E.coli 20cfu/100ml and control taken at Greve D'Azette [redacted] 18/08/08/01 E.coli <10cfu/100ml.

21/08/08

[redacted] and I arrived at Highbury Farm, La Rue du Parc at 09:15

Collected the following samples

[redacted] 21/08/08/05 stream just before the pond

[redacted] 21/08/08/04 pond Article 32(7) left at the packing shed.

[redacted] 21/08/08/06 lavoir (lady at the bungalow across the road brought key to unlock the gate to the lavoir)

[redacted] 21/08/08/07 stream by Fauvic Marsh La Rue du Marais a la Cocque

[redacted] 21/08/08/03 large pond

[redacted] 21/08/08/02 small pond

[redacted] 21/08/08/01 man hole

Returned to HDF. [redacted] delivered samples to the analyst at 11:00.

[redacted] collected samples

[redacted] 21/08/08/03 Outfall between Fort Henry and Fauvic

[redacted] 21/08/08/04 Fauvic outlet

[redacted] 21/08/08/05 Pontac 1

[redacted] 21/08/08/06 culverted stream

[redacted] 21/08/08/07 lavoir near church

Results received by email 22/08/08.

[redacted] samples	E.coli cfu/100ml
man hole	2,000
small pond	1,000
large pond	1,000
packing shed pond	2,000
stream before pond	2,000
lavoir	2,000
stream by marsh	1,000

■ samples

Outfall between FH & Fauvic 2,000

Fauvic outlet 2,000

Pontac 1 14,000

culverted stream 1,000

lavoir near church <1,000

28/08/08

■ and I collected water samples from the following outfalls:

Beach Hotel

Longbeach - no flow

Fort Henry - no flow

Outfall between Fort Henry & Fauvic

Fauvic

Le Hurel

Outfall between Le Hurel and Seymour - no flow

Seymour slip - no flow

La Rocque Harbour - no flow

Le Bourg 1 - no flow

Le Bourg 2

Pontac 1

Pontac 2

Le Hocq

29/08/08

Received results of outfall sampling 28/08/08

E.coli /100ml

Beach Hotel 4,000

Between FH & Fauvic >200,000

Fauvic outlet 2,000

Le Hurel 1,000

Le Bourg 2 3,000

Pontac 1 4,000

Pontac 2 (slip) <1,000

Le Hocq 1,000

Under sand near Beach Hotel, Gorey 0

Under sand between Fauvic and Le Hurel 0

Beach Cleaning by TTS starting around noon.

15:30 collected 3 samples from under sand near Beach Hotel. (sample 2: E.coli presumptive 600/100ml and sample 3: E.coli presumptive 700/100ml)

16:00 delivered 1 sample to the analyst ■/29/08/08/01 (coliforms: 3,240 cfu/100ml; E.coli: 1,640 cfu/100ml).

16:25 Put 2 samples in fridge to be delivered to Health Protection on Monday pm.

01/09/08

15:25 I arrived at Le Hurel slipway.

Drove across the beach to the outfall between Fort Henry and Fauvic. Photo taken. The outfall flap was blocked by seaweed again. Removed seaweed with my hands and trowel. Pool of water in front of flap. Lifted flap to see if outfall flowing. As pooled water was to the lip of the flap I considered the water to be seawater and the outfall not flowing. No sample collected. Met ■, who had collected cockle samples. The whole of the beach was covered with seaweed. Photos taken. Cockle sample: E.coli mpn 1,100/100ml. Oyster and mussel samples collected on the same day. Both oyster and mussel samples: E.coli mpn 790/100ml

Drove to Le Hurel and dug two holes in front of tower house. The first sample was collected from under the sand and a second sample was collected under sand covered by seaweed. Sample 1 (no seaweed: E.coli presumptive 20cfu/100ml) and sample 2 (under seaweed: E.coli presumptive 3,000cfu/100ml)

16:10 Delivered samples to Health Protection, La Bas Centre

05/09/08

09:15 ■ and I checked the outfall between Fort Henry and Fauvic whilst waiting for TTS. Tide was up to the outfall so could not see if outfall flowing. Met ■ and other TTS worker. Manhole cover lifted in farm. This is a surface line but sea side of an overflow from a foul line ■ did not know where RTC connection was. Photos taken. Manhole lifted down the track by a property called ■. Photos taken. Manhole lifted back on the main road in front of property called ■. No evidence of sewage blockages. Due to high tide could not dye test. ■ advised that would need to narrow area prior to dye testing.

Pontac 1: manhole cover also lifted on land side of coast road. Fast flow- no evidence of pollution.

■ annual leave 8-19 Sept & flexi leave 22 Sept.

16 Sept

took samples, following failure of Grouville Bay bathing water.

16/09/08/01 (repeat sea water sampling); 1450 cfu/100ml

16/09/08/02 (under seaweed- sand, Longbeach); 1300 cfu/100ml

16/09/08/03 (outfall, 1/2 way le Hurel- Fort Henry outfall- slight flow); 270 cfu/100ml

16/09/08/04 (Le Hurel slip- next to slip, north side); 140 cfu/100ml- this follows verbal report by about possible sewage coming out.

19 Sept

1230:

TTS removed seaweed from south of longbeach slip. Approx areas: 1000 m2. and took photos. Not many birds seen. Seaweed piled up in large heap- then moved by lorry in small piles.

1700:

took photos of bird effluent and two samples:

/19/09/08/01 - sand/water sample from non-cleared area- 100m south of clearance site. 300cfu/100ml

/19/09/08/02 - sand/water sample for cleared area- in bird excrement run-off. 600cfu/100ml

Both samples refrigerated over weekend.

29/09/08

Beach sign protocol drafted.

30/09/08

sent email to that Fisheries, Veterinary and Environmental Protection have no objections to the signs being removed.

10/10/08

Email received from re phaging. Lots of different strains of E.coli. Some unidentifiable. No match between under sand strains (VC refers to as effluent) and shellfish strains.

20/ 10/08

Meeting between CREH (and), Health Protection (and). Issue of E.coli in Grouville Bay discussed.

reported that the report not yet received from Colindale for phage typing of samples sent on 1 Sept.

Verbal report that E.coli present in the leachate under the sand did not match E.coli strains found in the oysters. E.coli in leachate and cockles were similar.

recommended that piling up of seaweed near the oyster and mussel farms should be minimised.

Monitor outfalls after periods of heavy rain.

opinion was erecting signs on beaches by Health Protection was correct.

E.coli levels in one gull faeces is equivalent to one human faeces.

22/10/08

Email sent to to check if EP samples were just presumptive counts of E.coli or confirmed.

24/10/08

replied that he would consider IDEXX Collilert chemistry method of analysis as presumptive test in seawater although this would be a confirmed test in drinking water.

Under sand sample 13/08/08 membrane filtration - presumptive count

Le Hurel BW sample 18/08/08 membrane filtration - presumptive count

BW imperative failure of 15/09/09 was the only result that was confirmed E.coli

JEP article 23/10/08.

email of 24/10/08 12:37 agreed to signs being removed.

sent email to at 16:14 following JEP article.

Two sources: Heavy rainfall washing into the bay and seaweed build up and beach cleaning

28/10/08

Meeting between and TTS Beach Cleaning Section (?)

Farmers to be notified that seaweed is available from the beach at no cost.

10/11/08

Email from . Still not received phage-typing results.

Summary and Conclusion

Two potential sources of E.coli. Run-off from land after heavy rainfall. Bird activity in areas of seaweed build-up followed by piling up of seaweed close to oyster beds. Extensive investigations of outfall sources of E.coli were carried out over a period of two months by Environmental Protection. Presumptive E.coli levels were found to be high intermittently. Outfalls

will be monitored during 2009. Phage typing report still not received. Seaweed will not be piled up by TTS near to the oyster beds in future.

Recommendation

Monitor outfalls (periodically and after heavy rainfall) that had high faecal indicator counts during 2009.