

EA-South West Box 12



**ENVIRONMENT
AGENCY**

**ENVIRONMENT PROTECTION SECTION
CORNWALL AREA**

FINAL REPORT

**Trevone Bay Beach
EC Bathing Water Guideline Non-
compliance**

Investigation into the Trevone Stream

March 2002

2001/46

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Investigations Officer**

**Geoff Boyd
Area Manager**

Trevone Bay Beach EC Bathing Water Guideline Non-compliance. Investigation into the Trevone Stream

1. INTRODUCTION

1.1. Background

Trevone bathing water has had three guideline failures since 1997, when sewerage improvements as part of the Trevone scheme were undertaken. The bathing water was affected by crude sewage discharging into the bay until the 1997 improvements. The waters can now be affected by a Combined Storm Overflow (CSO) which discharges through the old crude outfall, the Trevone stream and potentially the Cataclews outfall.

Summary of Compliance against Microbiological Standards

| Year | Imperative Fails | | Guideline Fails | | |
|------|------------------|------------------|-----------------|------------------|---------------------|
| | Total Coliforms | Faecal Coliforms | Total Coliforms | Faecal Coliforms | Faecal Streptococci |
| 1997 | 0 | 1 | 4 | 7* | 1 |
| 1998 | 0 | 0 | 0 | 1 | 0 |
| 1999 | 0 | 1 | 2 | 6* | 3* |
| 2000 | 0 | 0 | 2 | 6* | 5* |
| 2001 | 0 | 0 | 0 | 3 | 2 |

*Fails standard for EC Bathing Waters

The Trevone stream catchment consists mainly of agricultural land interspersed with a few domestic properties, the village of Trevone and Treceus Industrial estate, see Figure 1. Proximate to the stream there are several septic tank soakaways, some of which have caused pollution problems. Pollution events have also been linked to farming practices and sewerage misconnections at Treceus Industrial Estate.

1.2. Objectives

To identify the causes of EC Guideline non-compliance at Trevone ECBW.

2. METHODS

- 2.1. Extended monitoring to identify bacterial inputs from tributaries was initiated during the 2001 bathing season.
- 2.2. Review of associated data including rainfall, tidal state, reported pollution events and extended monitoring.



3. RESULTS

Figure 2: Bathing water and extended monitoring data.

Figure 3: Pollution event reports.

4. DISCUSSION

During the 2001 bathing season the extended monitoring (which was limited to two sites due to the Foot and Mouth disease epidemic) showed sporadic bacterial contamination to the watercourse. Bacterial loading could not be calculated, as the sampling was not accompanied by flow gauging.

The elevated concentrations were not exclusive to wet weather, suggesting point sources as well as the possibility of diffuse contamination.

Daily rainfall totals taken at Crugmeer rainfall station suggest that on two of the sampling days there was more than trace rainfall. On one of these days, 05-Jul-2001, there was significant contamination at the Treator site with associated elevation at the site prior to the beach. The corresponding bathing water sample was also slightly elevated, but fell within the Guideline standard. The Treator sampling site is situated immediately downstream of a farm. Later in the bathing season a pollution incident was reported (Appendix, Incident No:00026250) which could have been responsible for some previous elevated results. A further incident (Appendix, Incident No:00010814), a sewerage misconnection at Treceus Industrial Estate could also have contributed to elevated results on this tributary. Other misconnections at Treceus Industrial Estate and septic tank soakaways on the Treator tributary had been identified and rectified previous to the 2001 bathing season. Samples taken during wet weather in February 2002 still showed bacterial contamination at Treator, but not at Bay View. The Treator site is immediately downstream of a road drain and the contamination could have been enhanced by road runoff.

The ratio of faecal coliforms to faecal streptococci can be used as an indicator of the derivation of the bacteria. Relatively high faecal coliforms indicate human origin and relatively high faecal streptococci indicate agricultural sources. This method is not absolute due to the varying die off rates of the different bacteria. Bacterial concentration ratios at Bay View indicate the possibility of human derived bacterial contamination. As no properties in the immediate area are linked to mains, septic tanks might have been the source. This does not eliminate the possibility of contamination derived from agricultural sources.

5. CONCLUSIONS

- 5.1. Some elevated bacterial counts in the Trevone stream can attributed to known pollution sources and events.
- 5.2. There is bacterial contamination at the Treator sampling site during wet weather. This

will be elevated due to the road drain and possibly farm runoff.

- 5.3 There are unresolved sewerage issues in the catchment which require attention.

6. RECOMMENDATIONS

- 6.1. Pollution prevention farm visits should be carried out to identify the possible pathways of bacterial contamination to the watercourse and remedy any findings.

Action – EP Team Central

- 6.2. Pursue rectification of drainage problems at Treceus Industrial Estate.

Action – EP Team Central

- 6.3. If guideline non-compliance continues after the completion of Recommendations 6.1 and 6.2 then a catchment walkover survey to identify further bacteriological sources should be undertaken.

Action – Investigations Team

Anthony Heard
Investigations Officer

Figure 1: Trevone Stream Catchment

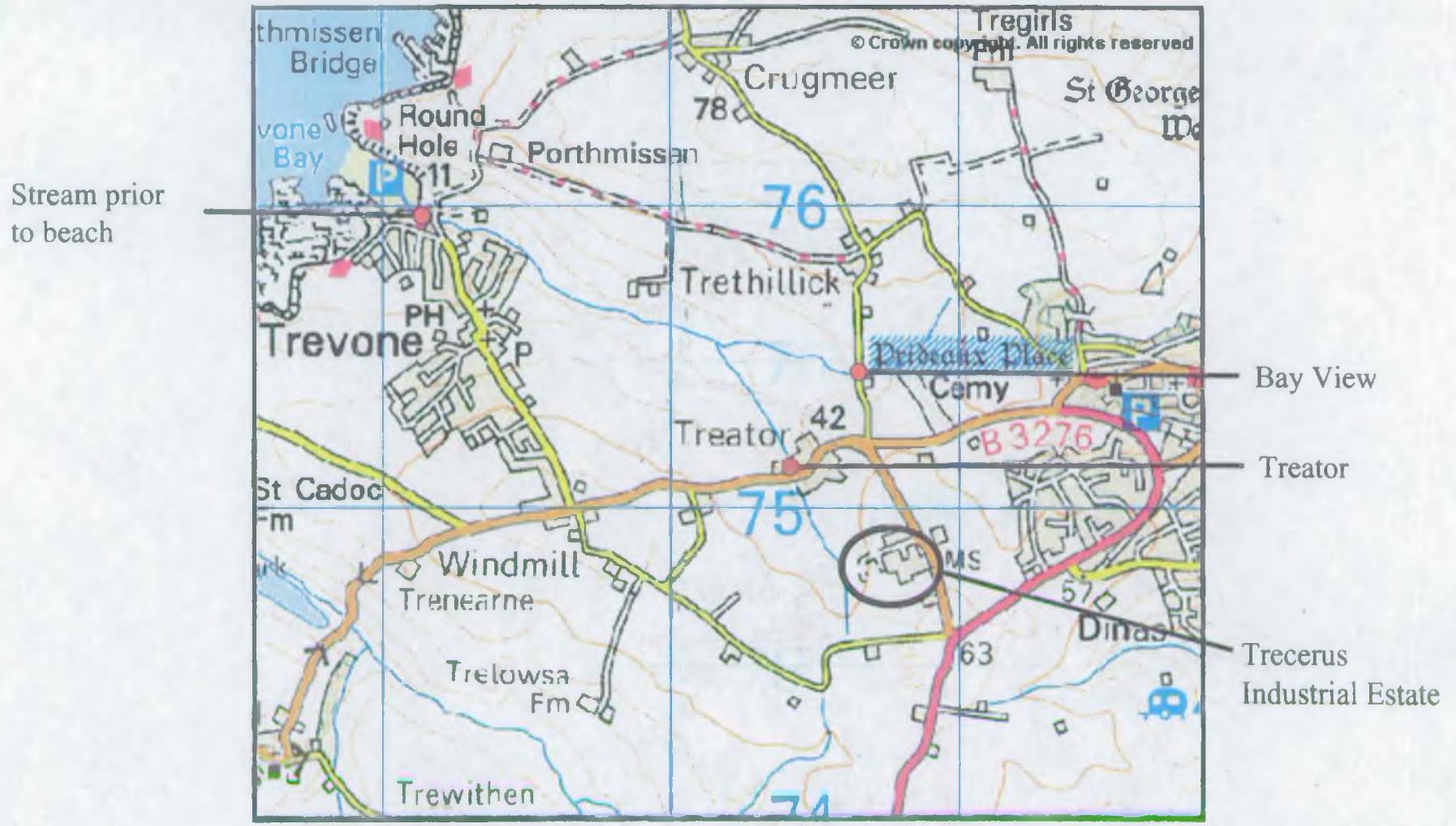


Figure 2

Bathing Water Data

ECBW Trevone

| Date | Time | total colif. | faecal colif. | faecal strep. | salinity | HW | WRT HW | Rain on day | Rain -24 |
|-----------|-------|--------------|---------------|---------------|----------|-------|--------|-------------|----------|
| 07-May-00 | 12:25 | 10 | 10 | 10 | 34.6 | | | | |
| 12-May-00 | 10:35 | 18 | 18 | 10 | 35.1 | | | | |
| 18-May-00 | 15:00 | 27 | 10 | 10 | 35.1 | | | | |
| 24-May-00 | 11:05 | 10 | 10 | 10 | 35 | | | | |
| 30-May-00 | 13:55 | 27 | 10 | 10 | 34.7 | | | | |
| 06-Jun-00 | 10:25 | 10 | 10 | 10 | 34.9 | | | | |
| 12-Jun-00 | 12:30 | 10 | 10 | 10 | 35.1 | | | | |
| 20-Jun-00 | 13:50 | 10 | 10 | 10 | 35.1 | | | | |
| 02-Jul-00 | 13:35 | 27 | 10 | 18 | 34.9 | | | | |
| 08-Jul-00 | 09:05 | 0 | 0 | 20 | 34.9 | | | | |
| 14-Jul-00 | 13:10 | 10 | 10 | 36 | 35.2 | | | | |
| 22-Jul-00 | 13:10 | 10 | 10 | 10 | 35.1 | | | | |
| 27-Jul-00 | 12:10 | 145 | 180 | 100 | 33.8 | | | | |
| 02-Aug-00 | 09:10 | 200 | 210 | 164 | 35.1 | | | | |
| 09-Aug-00 | 13:20 | 1260 | 1200 | 1000 | 35 | | | | |
| 15-Aug-00 | 09:25 | 82 | 55 | 18 | 35.1 | | | | |
| 21-Aug-00 | 12:45 | 27 | 27 | 270 | 34.6 | | | | |
| 01-Sep-00 | 16:05 | 342 | 200 | 191 | 34.8 | | | | |
| 08-Sep-00 | 12:30 | 480 | 45 | 55 | 34.9 | | | | |
| 13-Sep-00 | 09:45 | 182 | 210 | 81 | 34.6 | | | | |
| 18-Sep-00 | 11:45 | 620 | 450 | 136 | 34.5 | | | | |
| 03-May-01 | 12:35 | 36 | 45 | 10 | 34.1 | 15:07 | -02:32 | 0 | 0 |
| 08-May-01 | 11:05 | 10 | 10 | 10 | 34.7 | 06:44 | 04:21 | 0 | 0 |
| 19-May-01 | 13:35 | 45 | 27 | 10 | 34.1 | 15:57 | -02:22 | 0 | 0 |
| 25-May-01 | 09:15 | 55 | 100 | 10 | 34.5 | 07:41 | 01:34 | 0 | 0 |
| 30-May-01 | 13:10 | 36 | 55 | 10 | 34.5 | 12:09 | 01:01 | 0 | 0 |
| 13-Jun-01 | 09:35 | 136 | 155 | 370 | 34.2 | 10:50 | -01:15 | 0 | 0 |
| 19-Jun-01 | 12:45 | 10 | 10 | 10 | 34.7 | 16:43 | -03:58 | 0 | 0 |
| 23-Jun-01 | 09:15 | 114 | 33 | 64 | 34 | 07:30 | 01:45 | 0 | 0 |
| 28-Jun-01 | 16:30 | 10 | 10 | 10 | 34.8 | 11:48 | 04:42 | 0.5 | 1 |
| 05-Jul-01 | 10:35 | 64 | 64 | 10 | 34.7 | 06:06 | 04:29 | 6.7 | 3.8 |
| 16-Jul-01 | 14:45 | 430 | 380 | 210 | 34.4 | 14:05 | 00:40 | 7.7 | 0 |
| 24-Jul-01 | 10:55 | 10 | 10 | 27 | 34.5 | 08:54 | 02:01 | 0 | 0 |
| 30-Jul-01 | 15:20 | 320 | 250 | 55 | 34.7 | 14:36 | 00:44 | 0.4 | 0 |
| 04-Aug-01 | 09:20 | 10 | 18 | 10 | 34.9 | 06:31 | 02:49 | 1.3 | 0 |
| 11-Aug-01 | 11:50 | 10 | 10 | 10 | 34.9 | 10:15 | 01:35 | 0.8 | 0 |
| 20-Aug-01 | 11:45 | 64 | 45 | 10 | 34.9 | 07:06 | 04:39 | 0 | 0.3 |
| 25-Aug-01 | 11:10 | 64 | 73 | 27 | 34.8 | 10:44 | 00:26 | 0 | 0.2 |
| 31-Aug-01 | 09:05 | 0 | 0 | 10 | 35 | 04:53 | 04:12 | 0 | 0.3 |
| 11-Sep-01 | 15:20 | 65 | 27 | 10 | 34.8 | 11:20 | 04:00 | 0 | 0 |
| 16-Sep-01 | 09:15 | 64 | 18 | 10 | 35.1 | 05:13 | 04:02 | 0 | 0 |
| 19-Sep-01 | 12:25 | 10 | 18 | 10 | 34.9 | 19:48 | -07:23 | 0 | 0 |

Extended Monitoring Data

| Stream Prior to Beach | | | | Bay View | | | | Treator | | | | | |
|-----------------------|-------|---------------|---------------|----------|--------------|---------------|---------------|---------|--------------|---------------|---------------|-------------|----------|
| Date | Time | faecal colif. | faecal strep. | Time | total colif. | faecal colif. | faecal strep. | Time | total colif. | faecal colif. | faecal strep. | Rain on day | rain -24 |
| 07-May-00 | 12:35 | 580 | 36 | | | | | | | | | | |
| 12-May-00 | 10:45 | 4000 | 480 | | | | | | | | | | |
| 18-May-00 | 15:05 | 450 | 250 | | | | | | | | | | |
| 24-May-00 | 11:15 | 2000 | 530 | | | | | | | | | | |
| 30-May-00 | 14:05 | 2800 | 4100 | | | | | | | | | | |
| 06-Jun-00 | 10:30 | 0 | 0 | | | | | | | | | | |
| 12-Jun-00 | 12:25 | 740 | 440 | | | | | | | | | | |
| 20-Jun-00 | 13:45 | 1473 | 690 | | | | | | | | | | |
| 02-Jul-00 | 13:45 | 11500 | 8200 | | | | | | | | | | |
| 08-Jul-00 | 09:12 | 520 | 240 | | | | | | | | | | |
| 14-Jul-00 | 13:15 | 800 | 450 | | | | | | | | | | |
| 22-Jul-00 | 13:15 | 1355 | 320 | | | | | | | | | | |
| 27-Jul-00 | 12:15 | 11900 | 4900 | | | | | | | | | | |
| 02-Aug-00 | 09:15 | 1218 | 1009 | | | | | | | | | | |
| 09-Aug-00 | 13:25 | 991 | 580 | | | | | | | | | | |
| 15-Aug-00 | 09:30 | 790 | 864 | | | | | | | | | | |
| 21-Aug-00 | 12:50 | 1136 | 520 | | | | | | | | | | |
| 01-Sep-00 | 15:55 | 20000 | 14800 | | | | | | | | | | |
| 08-Sep-00 | 12:25 | 20000 | 14400 | | | | | | | | | | |
| 13-Sep-00 | 09:50 | 600 | 460 | | | | | | | | | | |
| 18-Sep-00 | 11:40 | 20000 | 6300 | | | | | | | | | | |
| 03-May-01 | 12:30 | 250 | 45 | 13:00 | 182 | 45 | 10 | 12:45 | 7600 | 610 | 118 | 0 | 0 |
| 08-May-01 | 11:15 | 310 | 91 | 10:47 | 82 | 91 | 18 | 10:50 | 1500 | 750 | 91 | 0 | 0 |
| 19-May-01 | 13:40 | 560 | 82 | 14:00 | 882 | 740 | 100 | 14:10 | 20000 | 1218 | 400 | 0 | 0 |
| 25-May-01 | 09:20 | 770 | 240 | 09:10 | 16900 | 2400 | 2600 | 09:00 | 873 | 791 | 182 | 0 | 0 |
| 30-May-01 | 13:15 | 690 | 280 | 13:30 | 20000 | 13000 | 240 | 13:40 | 20000 | 4800 | 1327 | 0 | 0 |
| 13-Jun-01 | 09:30 | 450 | 320 | 09:05 | 370 | 550 | 1064 | 09:10 | 10500 | 3700 | 2100 | 0 | 0 |
| 19-Jun-01 | 12:55 | 360 | 280 | 13:00 | 3900 | 670 | | 13:10 | 20000 | 8800 | | 0 | 0 |
| 23-Jun-01 | 09:17 | 430 | 480 | 09:00 | 20000 | 13300 | 918 | 09:05 | 1073 | 909 | 560 | 0 | 0 |
| 28-Jun-01 | 16:35 | 2700 | 540 | 16:45 | 3300 | 2500 | 540 | 16:40 | 17800 | 1573 | 680 | 0.5 | 1 |
| 05-Jul-01 | 10:40 | 13000 | 7200 | 10:35 | 6300 | 4300 | 6400 | 10:50 | 20000 | 20000 | 20000 | 6.7 | 3.8 |
| 16-Jul-01 | 14:50 | 480 | 73 | 14:25 | 3100 | 1730 | 1109 | 14:35 | 2700 | 2500 | 2200 | 7.7 | 0 |
| 24-Jul-01 | 11:00 | 740 | 590 | 10:40 | 20000 | 15400 | 5400 | 10:45 | 2400 | 845 | 2100 | 0 | 0 |
| 30-Jul-01 | 15:25 | 620 | 780 | 15:35 | 12900 | 5300 | 340 | 15:45 | 20000 | 7300 | 570 | 0.4 | 0 |
| 04-Aug-01 | 09:27 | 873 | 620 | 09:00 | 440000 | 90000 | 15730 | 09:05 | 20000 | 3900 | 770 | 1.3 | 0 |
| 11-Aug-01 | 12:00 | 640 | 720 | 12:05 | 6400 | 720 | 1027 | 12:10 | 6400 | 800 | 1109 | 0.8 | 0 |
| 20-Aug-01 | 11:50 | 250 | 209 | 11:30 | 20000 | 20000 | 2600 | 11:35 | 20000 | 20000 | 1600 | 0 | 0.3 |
| 25-Aug-01 | 11:15 | 1100 | 660 | 11:30 | 20000 | 4300 | 2200 | 11:20 | 20000 | 20000 | 4300 | 0 | 0.2 |
| 31-Aug-01 | 09:10 | 700 | 660 | 09:25 | 4000 | 300 | 510 | 09:20 | 8000 | 2000 | 330 | 0 | 0.3 |
| 11-Sep-01 | 15:25 | 440 | 450 | | | | | 15:35 | 20000 | 4100 | 3200 | 0 | 0 |
| 16-Sep-01 | 09:20 | 64 | 320 | | | | | 09:05 | 5400 | 4500 | 560 | 0 | 0 |
| 19-Sep-01 | 12:35 | 690 | 400 | | | | | | | | | 0 | 0 |
| 05-Feb-02 | 11:30 | 4300 | 2900 | 11:15 | 320 | 210 | 118 | 11:10 | 13550 | 12640 | 9730 | | |

Appendix: Pollution event reports

CORE EVENT DETAILS:

| | | | |
|---------------------------|--------------------------------------------------------------------------------------|-----------------------|---------------|
| Incident No: | 00026250 | Reported To: | Denis Carroll |
| Date & Time Notified: | 23/08/2001 11:59 | Date & Time Observed: | |
| Reporter Name: | thomas | Feedback Requested: | Y |
| Reporter Contact Details: | Work Telephone: 01841 532529 | | |
| Event Details: | stream that runs by property is smelling and has a greasy thick slick on the surface | | |

INCIDENT LOCATION DETAILS:

| | | | |
|---------------------|----------------------------|---------------------|-------------------------|
| Confirmed Location: | Treator | Incident NGR: | SW 90436 75140 |
| Catchment: | Camel and Menalhyl (Tidal) | Local Authority: | NORTH CORNWALL DISTRICT |
| Operational Area: | Cornwall - South West | Public Facing Area: | Cornwall |

INCIDENT ASSESSMENT DETAILS:

| | | | |
|------------------------------|-------------------|---------------------------------|----------------------------------|
| Passed for Assessment To: | Chris Leach | Lead Investigating Officer: | Chris Leach |
| Team: | EP-Assistants (C) | | |
| Agency Business: | Y | Event Substantiated: | Y |
| CICS Incident: | Y | Attendance Priority: | Immediate 2 hours (office hours) |
| Attendance Justification: | Local Issues | Potential Environmental Impact: | 3 |
| Duplicate Report References: | | | |

INCIDENT INVESTIGATION & CLASSIFICATION DETAILS:

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Investigation Report: | <p>Met Mr Thomas at Sycamores at 13.20. Small stream running past property discoloured and smelly. Fat visible on surface part way down. In situ Ammonia 10+ mg/l, D.O. 16%. Slurry smell and water dark brown in colour. Samples taken.</p> <p>Visited Treator Farm and spoke to farm workers. Farmer, Mr Richard Banbury not on site - mother contacted, met at Treceus Industrial Estate and accompanied to Treator Farm.</p> <p>Richard Banbury arrived at farm and pollution traced to field drain discharging into stream. Further investigation by Mr Banbury discovered blocked pipe in slurry sump in farmyard which had caused slurry to overflow into surface water drain.</p> <p>Discharge had stopped. Sump unblocked and farmer agreed to clear out slurry in stream and irrigate to land.</p> <p>Stream sampled at Trevone Bay, in situ Ammonia 0 mg/l. BACTIC, GEN & SSLDs samples taken - no evidence of any impact from u/s pollution.</p> <p>29/08/01 Trevone Stream checked at Treator - running clear.</p> <p>Discussed with Rob Torr and agreed to recharge for samples only due to first time offence, localised impact and extenuating personal circumstances of farmer.</p> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | | |
|-------------------------|---------|---------------------------|---|
| Agency Resource Impact: | Level C | Environmental Impact Air: | 4 |
|-------------------------|---------|---------------------------|---|

Environmental Impact Land: 4

Environmental Impact Water: 3

Action Taken:

Alleged Offender Name: Mr Richard Banbury

INCIDENT CLOSURE DETAILS:

Incident Closed Date: 29/01/2002

Closure Authorised By: Janie Gray

NATIONAL INCIDENT REPORTING SYSTEM

INCIDENT SUMMARY

CORE EVENT DETAILS:

| | | | |
|---------------------------|------------------------------------------------------------------------|-----------------------|-------------|
| Incident No: | 00010814 | Reported To: | Chris Leach |
| Date & Time Notified: | 22/06/2001 13:20 | Date & Time Observed: | |
| Reporter Name: | Mike Wicketts T J International | Feedback Requested: | Y |
| Reporter Contact Details: | Work Telephone: 01841 532691 | | |
| Event Details: | Sewage coming out of surface water drain on Treceus Industrial Estate. | | |

INCIDENT LOCATION DETAILS:

| | | | |
|---------------------|----------------------------|---------------------|-------------------------|
| Confirmed Location: | Treceus Industrial Estate | Incident NGR: | SW 9062 7478 |
| Catchment: | Camel and Menalhyl (Tidal) | Local Authority: | NORTH CORNWALL DISTRICT |
| Operational Area: | Cornwall - South West | Public Facing Area: | Cornwall |

INCIDENT ASSESSMENT DETAILS:

| | | | |
|------------------------------|-------------------|---------------------------------|----------------------------------|
| Passed for Assessment To: | Pete Mortimer | Lead Investigating Officer: | Pete Mortimer |
| Team: | EP-Central-Bodmin | | |
| Agency Business: | Y | Event Substantiated: | Y |
| CICS Incident: | Y | Attendance Priority: | Immediate 2 hours (office hours) |
| Attendance Justification: | Local Issues | Potential Environmental Impact: | 3 |
| Duplicate Report References: | | | |

INCIDENT INVESTIGATION & CLASSIFICATION DETAILS:

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Investigation Report: | <p>Attended and investigated-located discharge of crude sewage from surface water drain in headwall below Premises of TIC International, Treceus Industrial Estate, Padstow. Discharging to trib of the Trevone Stream- conferred with complainant - enquiries on the estate lead to Unit 4a -St Merryn Laundry Services Ltd - proprietor Mr Jim Read. Permission given by Mr Read to dye test toilet on premises -1504 dye introduced and observed at 15.10hrs exiting drain to stream. Observed by Mr Read. No dye having been introduced to any other points or premises. Further enquiries at Units 4B, 4c and 4d to trace source of problem. Obtained samples of discharge, upstream and downstream of discharge, photographs etc. Further liaison with Mr Read and representative of Steins restaurant from Unit 4c over remedial actions to investigate drains 23.06.2001 and rectify. Also to clear stream of SRD at point of and below discharge. Return to Bodmin with samples and paperwork to submit for transit to lab. 1800 off.</p> |
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| | | | |
|----------------------------|-----------|-----------------------------|---|
| Agency Resource Impact: | Level C | Environmental Impact Air: | 3 |
| Environmental Impact Land: | 4 | Environmental Impact Water: | 3 |
| Action Taken: | | | |
| Alleged Offender Name: | Mr J Read | | |

INCIDENT CLOSURE DETAILS:

Incident Closed Date:

Closure Authorised
By:

Incident Number.... SW57425 Priority.... Immediate (2 Hours)
Function... Environment Protection-Water Pollution (EP)

Reported by..... MRS KERSHAW (by) Phone 01841 520903
Reporters Address.. WINDSWORTH, TREVONE, PADSTOWE
Incident Location.. ROCKY BAY
Place (Gazetteer).. TREVONE 25A SW890750
Water Stretch ID... 49/25A/000/00A Area..... South West - Cornwa

Attachment..... TIDAL CAMEL MENALHYL
Watercourse..... MARINE COAST
Stretch..... TREVOSE HEAD - STEPPER POINT
Fish Dead..... 0

buffer overflow. Use SET command to reduce ARRAYSIZE or increase MAXDATA.

DETAILS
REPORTS THAT THE SEA AT ROCKY BAY, TREVONE IS VERY BROWN AND ALSO THE BEACH
Passed to Pete mortimer.
Natural algal froth.

Occurred at 1151 on 04-OCT-2000
Received at 1151 on 04-OCT-2000 by Regional Communications Centre
Target Date 1351 on 04-OCT-2000

SAMPLES
Samples are recorded as being specifically relevant to this incident.