

# RIVER PAR, CRINNIS AND ST. AUSTELL

## CATCHMENT ACTION PLAN



**NRA**

*National Rivers Authority  
South West Region*

C O N T E N T S

MAP OF NRA SW REGION SHOWING TARGET CATCHMENT

- |    |                               |            |
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**National Rivers Authority  
South West Region**



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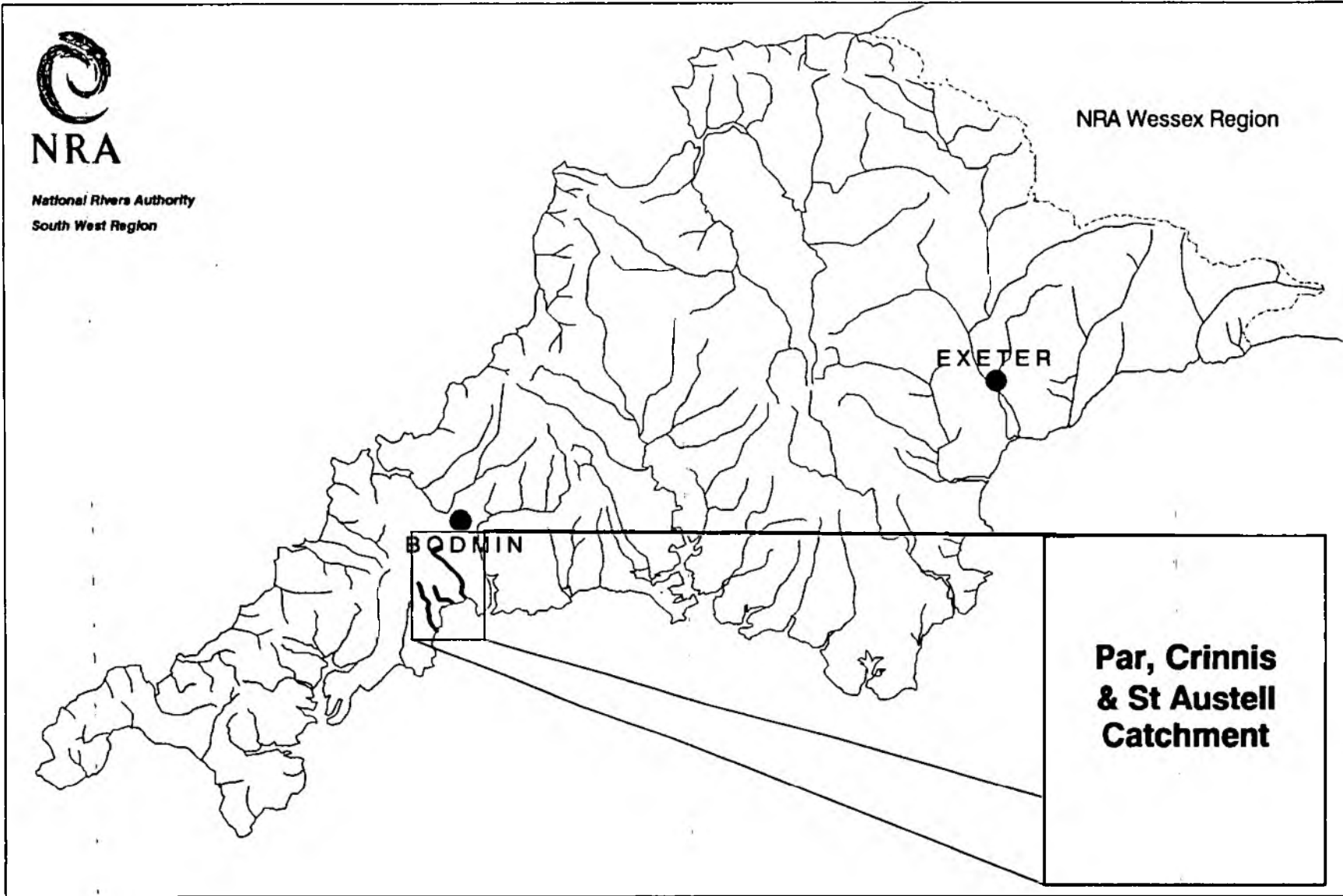
NRA Wessex Region

EXETER

BODMIN

**Par, Crinnis  
& St Austell  
Catchment**

**Par, Crinnis & St Austell Catchment**



## 1. INTRODUCTION

CATCHMENT ACTION PLANS are designed to be a simple, practical means of directing resources to achieve environmental improvements on a priority basis, between and within catchments. They set out the essential routine tasks, and a five year programme of specific actions for each catchment to meet regional and national targets. Changes may occur where unplanned work such as an extreme drought requires priority.

The NRA has inherited a legacy of environmental challenges arising from the use and abuse of our natural resources. Although significant progress has already been made it will be many years before all the work needed can be assessed, funded and carried out.

To achieve the environmental objectives will require not just the clear, vigorous direction of the NRA towards priority work but the help and support of the whole community.

The NRA has consulted with the Regional Advisory Board and Advisory Committees and the local interests about the draft action plans and the format is the outcome of those discussions.

Progress to achieve the Action Plan objectives will normally be reviewed on an annual basis but more frequently where severe problems have been identified.

## 2. ROUTINE SERVICES

Despite the fact that the NRA is largely a reactive, regulatory body it is possible to plan for much of the environmental protection work even the fact that unpredictable events will occur!

Much of the routine workload such as monitoring, enforcement of statutes and dealing with pollution and flooding incidents needs to have clear priority to ensure that it is dealt with to satisfactory standards throughout the region.

This essential work is carried out according to need in all catchments.

The NRA SW handles over 3000 pollution incidents a year, the majority of which are reported by members of the public. Many are attended within minutes and most within a few hours. In some cases major operations are undertaken to control the pollution and minimise impact on the environment.

Several thousand routine inspections of industrial premises, farms, weirs, fish passes and treatment works are also undertaken. In many cases improvements are required to minimise the risk of pollution or to ensure protection of fish and conservation of the water environment.

As part of the overall environmental protection exercise many flood defence schemes and thousands of planning applications are screened; hundreds of farm pollution grant proposals and effluent discharge applications are processed each year. Many new or varied abstraction licences and drilling consents are also processed to protect surface and underground waters.

Each year about 67,000 samples of rivers, lakes, ground and tidal waters and effluents are taken. Around 1.25 million chemical tests are made on these samples to ensure water quality standards are met and to identify where enforcement action is needed.

In addition detailed studies of samples of invertebrates, fish, algae and plants are undertaken to provide information on the status of the aquatic communities and to test the accuracy of the conclusions of chemical monitoring.

The key abstractions, discharges and monitoring sites for this catchment are marked on map(s) in Appendix 1.

Routine regulatory action is taken to ensure the conditions of thousands of discharges, abstractions and other legal requirements are enforced and illegal fishing is curtailed.

The NRA SW also handles many hundreds of letters and enquiries for information from the Water Act Register and provides press releases, reports and other information to a wide range of interests in the community.

RIVER PAR, CRINNIS AND ST AUSTELL CATCHMENT ACTION PLAN

3. CHALLENGES AND ACTION

This plan includes the Par, Crinnis and St Austell rivers. For hundreds of years the quarrying of china clay, has significantly affected the water quality in the catchments. In recent years major improvements have been made by the china clay industry, but further work is necessary to comply with stricter environmental standards.

The area is also visited by many tourists seeking holidays by the sea and the improvement of bathing waters is a major feature of the plan.

The aims of the plan are to achieve water quality objectives and enforce pollution control legislation.

Functional Officers have identified the main challenges to the achievement of environmental objectives. Where solutions are clear they have been programmed. In other cases further investigations are needed to determine the way forward.

ACTION

TIMETABLE

1991    1992    1993    1994    1995

POLLUTION CONTROL

Carry out review of water quality in the catchment.

completed

Followed by investigation of causes of non-compliance with water quality objectives and take action to remedy.

Assess impact of china clay discharges with a view to reviewing discharge consent.

Develop catchment quality model using QUASAR.

Prepare catchment description.

Pre and post scheme appraisal of SWWS capital improvement schemes. In particular at:

- i) Par.
- ii) Menagwins (St Austell) sewage treatment works.
- iii) Gorran Haven

Determine deemed discharge consents.

ACTION

TIMETABLE

1991    1992    1993    1994    1995

POLLUTION CONTROL Continued

Baseline water quality survey of groundwater to establish:-

- a) suitability for potable use
- b) compliance with relevant EC Directive Standards.

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## APPENDIX 1

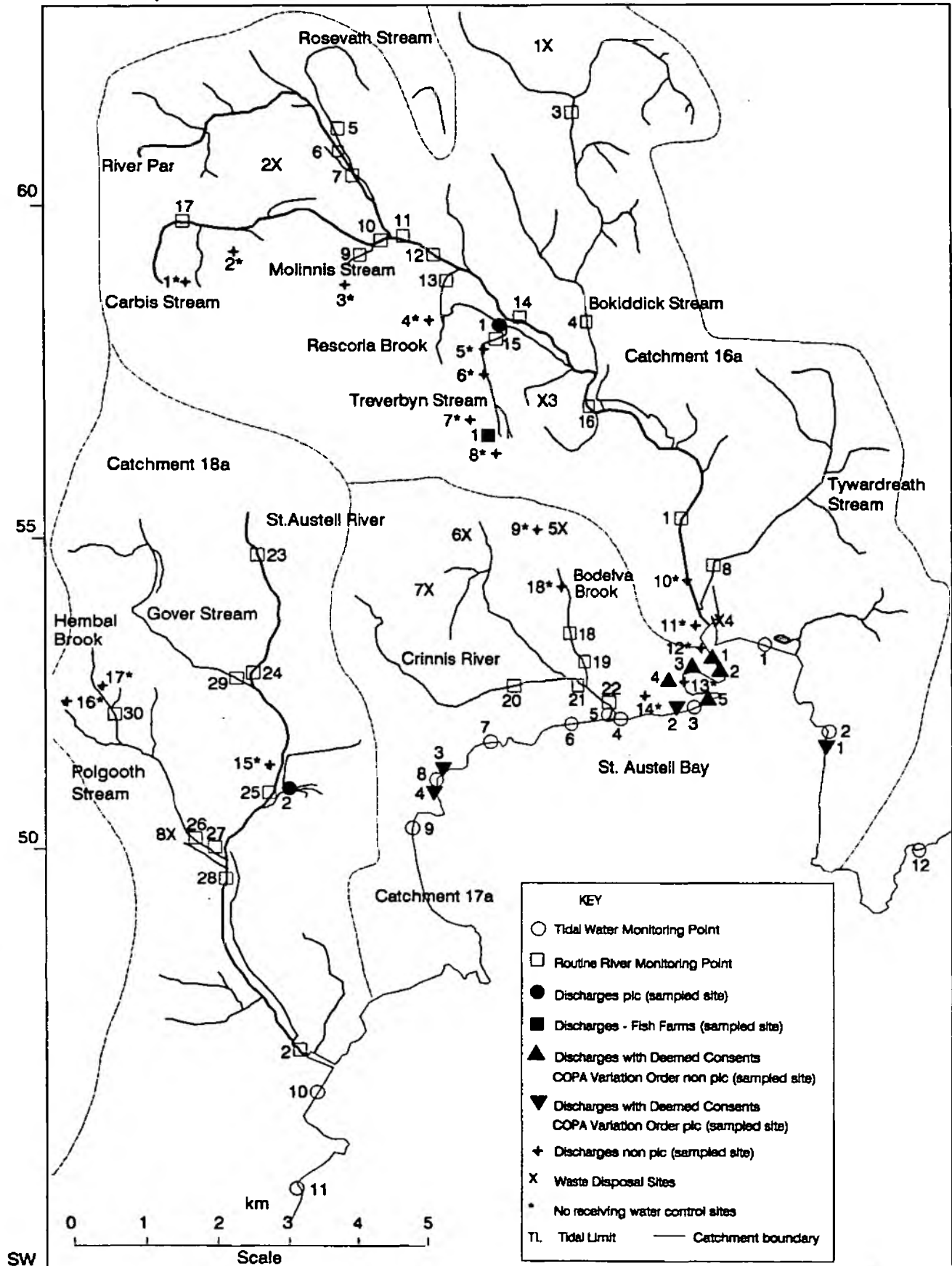
### CATCHMENT MAPS

#### KEY

- Tidal Water Monitoring Point
  - Routine River Monitoring Point
  - Discharges plc (sampled site)
  - Discharges - Fish Farms (sampled site)
  - ▲ Discharges with Deemed Consents - COPA Variation Order non plc (sampled site)
  - ▼ Discharges with Deemed Consents - COPA Variation Order plc (sampled site)
  - + Discharges non plc (sampled site)
  - X Waste Disposal Sites
  - TL Tidal Limit
  - \*
- No receiving water control sites



# Par, Crinnis & St Austell Catchments 16A, 17A & 18A



PAR, CRINNIS & ST AUSTELL CATCHMENTS 16A, 17A & 18A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P16A/P/41	SW99805940	Wheal Prosper	China Clay (Mica Dam)
2*	P16A/P/38		Great Wheal Prosper	Dry China Clay
3*	P16A/P/22	SX02105880	Wheal Henry	China Clay (Settlement Lagoon)
4*	P16A/P/7	SX02705860	Rocks	China Clay (Drying complex)
5*	P16A/P/20	SX03905770	Treskilling	Sewage treatment works
6*	P16A/P/55	SX07355260	Par Farm	Sewage treatment works
7*	P16A/P/42	SX03605670	Innis Moor (East)	China Clay (Mica Dam)
8*	P16A/P/43	SX04005660	Innis Moor	China Clay (Mica Lagoon)
9*	P17A/P/2	SX04905530	Quarry Park	China Clay
	P17A/P/5	SX04905530	Quarry Park	China Clay
	P17A/P/6	SX04905530	Quarry Park	China Clay
10*	P16A/P/10	SX07305610	Ponts Mill	China Clay
11*	P16A/P/57	SX07805320	Par Trash Filter	China Clay
12*	P16A/P/58	SX07845308	Par Rotaries	China Clay
13*	P16A/P/62	SX07505290	Par Harbour	China Clay
	P16A/P/62A	SX07505290	Par Harbour	China Clay
	P16A/P/62B	SX07505290	Par Harbour	China Clay
	P16A/P/62C	SX07505290	Par Harbour	China Clay
	P16A/P/59	SX07505282	Par Buells	China Clay
	P16A/P/60	SX07585277	Par Buells	China Clay
	P16A/P/61	SX07665267	Par Slurry Plant	China Clay
14*	P17A/P/23	SX07105260	Par Moor Dryers	China Clay
	P17A/P/24	SX06905270	Par Moor Dryers	China Clay
15*	P18A/P/2	SX01305170	Pentewan Road Lab	China Clay
	P18A/P/4	SW01305170	Pentewan Road Lab	China Clay
16*	P18A/P/18	SW98205240	Burngullow Dryers	China Clay
17*	P18A/P/16	SW98505230	Blackpool Plant	CP 18/4 China Clay
	P18A/P/21	SW98905240	Blackpool Dryers	CP 18/14 China Clay
18*	R17A006	SX05305430	Carvearmoor Road Bridge	

DISCHARGES PLC				
1	WSTW1703FE	SX04405810	St Austell/North	Sewage treatment works
2	WSTW1702FE	SX01205090	St Austell/Menagwin	Sewage treatment works Red list site

FISH FARM				
1	P16A/P/56	SX03645678	Innis Moor Fish Farm	

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
1	P17A/P/412	SX07845308	Par Dryers/Rotaries	
	P17A/P/417	SX07855306	Par Dryers/Rotaries	
	P17A/P/422	SX07845310	Par Dryers/Rotaries	
	P17A/P/423	SX07825313	Par Dryers/Rotaries	
	P17A/P/426	SX07785320	Par Dryers/Rotaries	
2	P17A/P/410	SX07975290	Port of Par	
	P17A/P/411	SX07965289	Port of Par	
3	P17A/P/413	SX07615308	Port of Par	
	P17A/P/414	SX07595305	Port of Par	
	P17A/P/424	SX07595305	Port of Par	
	P17A/P/415	SX07575304	Port of Par	
	P17A/P/427	SX07955290	Port of Par	
	P17A/P/428	SX07855301	Port of Par	

PAR, CRINNIS & ST AUSTELL CATCHMENTS 16A, 17A & 18A (cont)

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC

4	P17A/P/416	SX07665267	Par Dryers/Slurry Plant
	P17A/P/418	SX07505282	Par Dryers/Buells
	P17A/P/419	SX07585277	Par Dryers/Buells
	P17A/P/420	SX07535280	Par Dryers/Buells
	P17A/P/421	SX07555280	Par Dryers/Sump
	P17A/P/425	SX07595287	Port of Par
5	P17A/P/401	SX07555297	Bodelva Dry/Par Docks
	P17A/P/402	SX07555297	Bodelva Dry/Par Docks
	P17A/P/403	SX07535296	Bodelva Dry/Par Docks
	P17A/P/404	SX07535295	Bodelva Dry/Par Docks
	P17A/P/405	SX07525295	Bodelva Dry/Par Docks
	P17A/P/406	SX07525294	Bodelva Dry/Par Docks
	P17A/P/407	SX07515293	Bodelva Dry/Par Docks
	P17A/P/408	SX07515293	Bodelva Dry/Par Docks
	P17A/P/409	SX07505292	Bodelva Dry/Par Docks

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC

1	OUT2066	SX09155196	Polkerris	Outfall
2	WSTW1666FE	SX07315230	Par Spit	Outfall
				Site for current & proposed dangerous substances
				Paris Commission site
				Red list site
3	OUT2016	SX03915125	Charlestown	Outfall
				Site for current dangerous substances
4	OUT2068	SX03235051	Porthpean	Outfall

WASTE DISPOSAL SITES

1	08PX	SX051618	Bokiddick Farm, Lanivet
2	08AJ	SX014607	Anchorage Farm, Criggan
3	08PP	SX047569	Penince Farm, Par
4	08AB	SX075538	Par Farm, Par
5	08PM	SX052553	Woodville Road, St Blazey
6	08PH	SX051552	New Road, St Blazey
7	08AE	SX033545	Menear Rd, St Austell
8	08NZ	SW998504	Treloweth Road, Polgooth

TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS

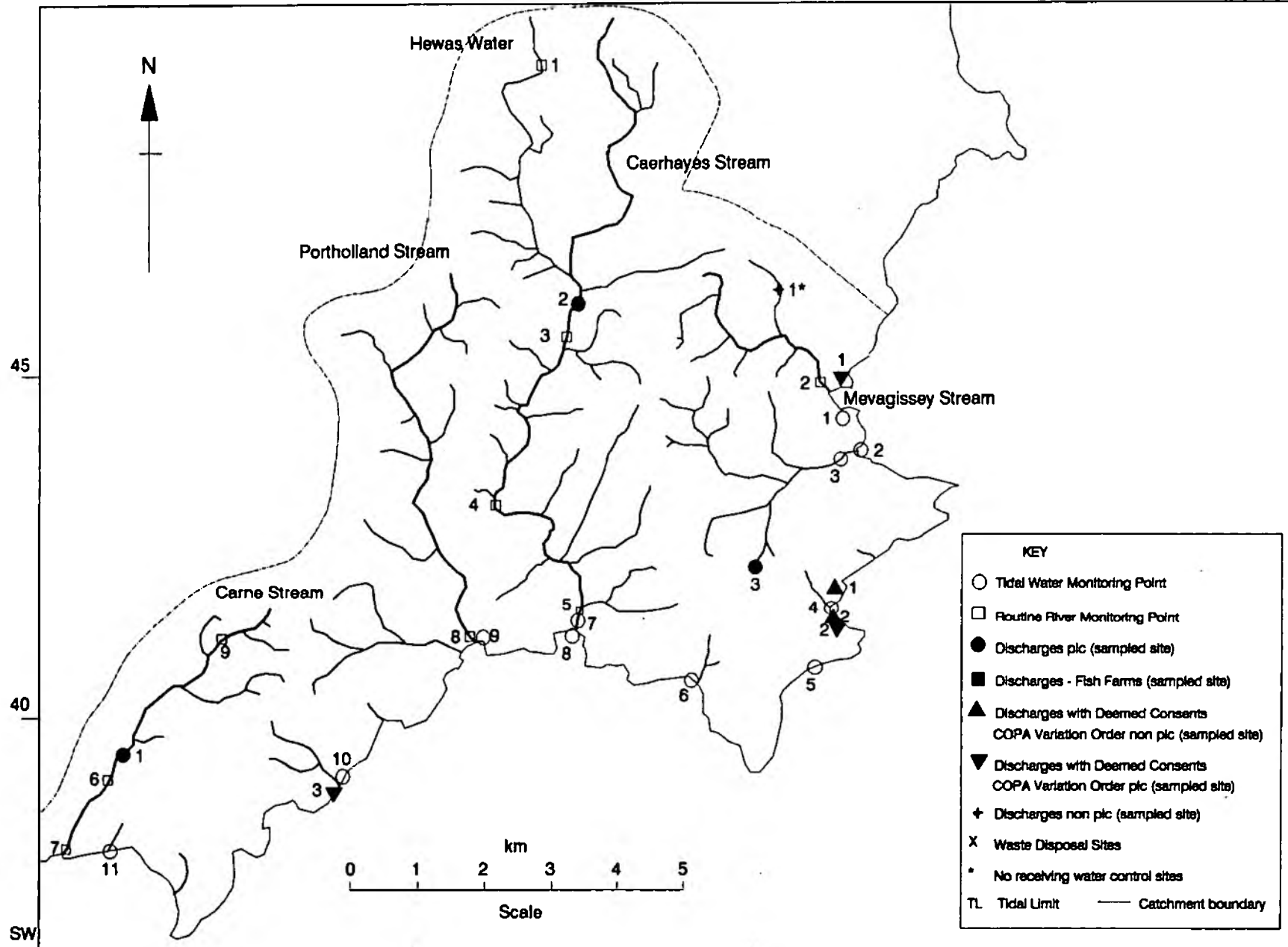
1	ECB0500	SX083533	Par Beach	EC identified bathing water
2	ECB0490	SX09285210	Polkerris Beach	EC identified bathing water
3	B0501	SX071523	Spit beach	EC identified bathing water
4	ECB0510	SX063522	Crinnis/Golf Links	EC identified bathing water
5	ECBR0510	SX06115230	Stream A	Watercourse to beach
6	ECB0511	SX056521	Leisure Centre	EC identified bathing water
7	ECB0520	SX042516	Charlestown Beach	EC identified bathing water
8	ECB0521	SX035512	DuPorth Beach	EC identified bathing water
9	ECB0530	SX032507	Porthpean Beach	EC identified bathing water
10	ECB0540	SX018467	Pentewan Beach	EC identified bathing water
11	ECB0550	SX017439	Polstreath Beach	EC identified bathing water
12		SX10335040	Polridmouth	Non-identified bathing water

PAR, CRINNIS & ST AUSTELL CATCHMENTS 16A, 17A & 18A (cont)

ROUTINE RIVER MONITORING

1	R16A005	SX07055518	St Blazey Bridge	Chemical/biological site Bathing waters quality point Red list site
2	R18A008	SX01754725	Pentewan Bridge	Chemical/biological site Bathing waters quality point Red list site Dangerous Substances Directive
3	R16A014	SX05386103	Lowerton Farm	Chemical/biological site
4	R16A009	SX05535798	Luxulyan	Chemical/biological site
5	R16A008	SX02056102	Rosevath	Chemical/biological site
6	R16A007	SX02166071	Criggan Moor	Chemical/biological site
7	R16A001	SX02296070	A391 Bridge	Chemical/biological site
8	R16A017	SX07625436	D/S Elmsleigh Pond	Chemical/biological site
9	R16A016	SX02485928	Mollinnis	Chemical/biological site
10	R16A011	SX02705938	Prior to Luxulyan	Chemical/biological site
11	R16A006	SX02845940	Higher Menadew	Chemical/biological site
12	R16A002	SX03205916	Lavrean Bridge	Chemical/biological site
13	R16A012	SX03405870	Prior to Luxulyan	Chemical/biological site
14	R16A003	SX04865805	Luxulyan Bridge	Chemical/biological site
15	R16A013	SX04535802	200M U/S Confluence	Chemical/biological site
16	R16A004	SX05755688	Treffry Bridge	Chemical/biological site
17	R16A018	SX00035955	U/S Wheal Prosper	Chemical/biological site
18	R17A007	SX05485338	Bodelva	Chemical/biological site
19	R17A001	SX05635290	A3082 Bridge	Chemical/biological site
20	R17A002	SX04585293	Cuddra Road Bridge	Chemical/biological site
21	R17A003	SX05505275	Carlyon Bay Rd Br	Chemical/biological site
22	R17A004	SX06105231	Crinnis Beach	Chemical/biological site Dangerous Substances Directive
23	R18A003	SX00895478	Lansalson Bridge	Chemical/biological site
24	R18A004	SX00755268	Above Gover Stream	Chemical/biological site
25	R18A006	SX01225114	Iron Bridge	Chemical/biological site Dangerous substances control site
26	R18A014	SX00015023	U/S Polgooth STW	Chemical/biological site
27	R18A010	SX00714983	Prior St Austell R	Chemical/biological site
28	R18A007	SX00714945	Molingey Gauging St	Chemical/biological site Dangerous Substances Directive
29	R18A005	SX00755268	Prior/St Austell R	Chemical/biological site
30	R18A016	SW98935205	U/S Bridge	Biological site

# Mevagissey, Carne, Caerhayes & Portholland Catchments 18A



MEVAGISSEY, CARNE, CAERHAYES & PORTHOLLAND CATCHMENTS 18A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
<b>DISCHARGES NON PLC</b>				
1*	P18A/P/25	SX00104640	Heligan House,	Mevagissey Sewage treatment works
<b>DISCHARGES PLC</b>				
1	WSTW0258FE	SW90923979	Veryan	Sewage treatment works
2	WSTW1709FE	SW97904644	St Ewe	Sewage treatment works
3	WSTW1568FE	SX00144241	Gorran Churchtown	Sewage treatment works
<b>DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC</b>				
1	P18A/P/401	SX01504190	Longships, Cliff Rd,	Gorran Haven
2	P18A/P/402	SX01354165	1-2 Fort Cottage,	Gorran Haven
	P18A/P/403	SX01354165	The Fort,	Gorran Haven
<b>DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC</b>				
1	OUT2040	SX01774492	Mevagissey	Outfall
2	OUT2026	SX01524146	Gorran Haven	Outfall
3	OUT0570	SW93813828	Portloe	Outfall
<b>TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS</b>				
1	B0555	SX01604467	Mevagissey Beach	Non-identified bathing waters
2	ECB0650	SX016439	Port Mellon Beach	EC identified bathing waters
3	ECBR0560	SX015439	Port Mellon Stream	Watercourse to beach
4	ECB0570	SX01304170	Little Perhaver	EC identified bathing waters
5	ECB0571	SX01004080	Vault	EC identified bathing waters
6	B0575	SW99254052	Hemmick Beach	Non-identified bathing waters
7	ECBR0580	SW975415	Caerhayes Stream	Watercourse to beach
8	ECB0580	SW973413	Porthluney Beach	EC identified bathing waters
9	B0581	SW95984125	Portholland Beach	Non-identified bathing waters
10	B0585	SW93853941	Portloe Beach	Non-identified bathing waters
11	ECB0590	SW90503830	Pendower Beach	EC identified bathing waters
<b>ROUTINE RIVER MONITORING</b>				
1		SW968497	Hewas Water	Biological site
2	R18A009	SX01304500	Car Park, Mevagissey	Chemical/biological site
3	R18A001	SW97184560	Polmassick Br	Chemical/biological site
4	R18A015	SW96094329	Tubbs Mill	Chemical/biological site
5	R18A002	SW97464145	Caerhayes Beach Br	Chemical/biological site Freshwater Fish Directive
6	R18A011	SW90563928	Melinsey Mill	Chemical/biological site
7	R18A012	SW89753820	Pendower Beach	Chemical/biological site
8	R18A017	SW95934130	Portholland	Chemical/biological site
9		SW92314127	Treilgossick	Biological site

## NRA DUTIES AND POWERS

The Authority has statutory duties and powers in relation to water resources, pollution control, flood defence, fisheries, recreation, conservation and navigation along with various other functions given under the 1989 Water Act.

Whilst most of the Authority's duties and powers are exercised in respect of inland waters in England and Wales, it also has substantial responsibilities for the marine environment around the coast of England and Wales. For pollution control and fisheries purposes it has duties and powers out to distances of three nautical miles and six nautical miles respectively, the six miles being for salmonid protection. For flood defence it is responsible for a large number of sea defences (but not coastal protection which falls within the remit of local authorities).

As well as new duties, the NRA has also inherited other duties and powers under earlier legislation such as the 1963 Water Resources Act, 1975 Salmon and Freshwater Fisheries Act, and 1976 Land Drainage Act.

The Authority also has responsibility for implementing a number of Statutory Instruments, Orders, Notices and Directives relating to the 1989 Water Act. Various European Community Directives on the protection of the aquatic environment eg. Bathing Water Quality, Surface Water Quality, and Freshwater Fishlife also strongly influence its work.

## NRA MISSION STATEMENT

The National Rivers Authority will protect and improve the water environment. This will be achieved through effective management of water resources and by substantial reductions in pollution. The Authority aims to provide effective defence for people and property against flooding from rivers and the sea. In discharging its duties it will operate openly and balance the interests of all who benefit from and use rivers, ground waters, estuaries and coastal waters. The Authority will be businesslike, efficient and caring towards its employees.

## NRA AIMS

To achieve a continuing improvement in the quality of rivers, estuaries and coastal waters, through the control of water pollution.

To assess, manage, plan and conserve water resources and to maintain and improve the quality of water for all those who use it.

To provide effective defence for people and property against flooding from rivers and the sea.

To provide adequate arrangements for flood forecasting and warning.

To maintain, improve and develop fisheries.

To develop the amenity and recreation potential of waters and lands under NRA control.

To conserve and enhance wildlife, landscape and archaeological features associated with waters under NRA control.

To ensure that dischargers pay the costs of the consequences of their discharges, and as far as possible, to recover the costs of water environment improvements from those who benefit.

To improve public understanding of the water environment and the NRA's work.

#### **REGIONAL PRIORITIES**

The overall priority is to continue the improvements which were started in the last year in the following key areas.

##### **WATER RESOURCES**

- Develop regional strategy document.
- Improve response to licence applications.
- Establish Water Resources planning forum.
- Progress schemes to ameliorate low flows.
- Implement groundwater protection policy.

##### **POLLUTION CONTROL**

- Develop regional strategy document.
- Introduce charging for discharges scheme.
- Implement new consenting policy; begin review of deemed consents.
- Complete 1990/91 survey and consult on water quality objectives.
- Carry out EC Directive requirements.
- Introduce new monitoring programmes for effluents and controlled waters.
- Establish a regional laboratory service.

##### **FISHERIES**

- Develop regional strategy document.
- Review licence and other charging schemes.
- Harmonise stock assessment techniques.
- Extend programme of restoration and rehabilitation of fish stocks.
- Increase action to control illegal fishing.
- Submit new fishery byelaws to MAFF for confirmation.



**RECREATION**

- Continue implementations of Water Act Code of Practice.
- Produce strategy for regional sites.
- Improve cost recovery from the recreation service.

**CONSERVATION**

- Establish database for regulatory purposes.
- Produce strategy for regional sites.
- Promote conservation schemes.

