

RIVER FAL

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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APPENDIX 1 - CATCHMENT MAPS

APPENDIX 2 - NRA DUTIES, POWERS AND TARGETS

ENVIRONMENT AGENCY



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National Rivers Authority South West Region



NRA

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South West Region

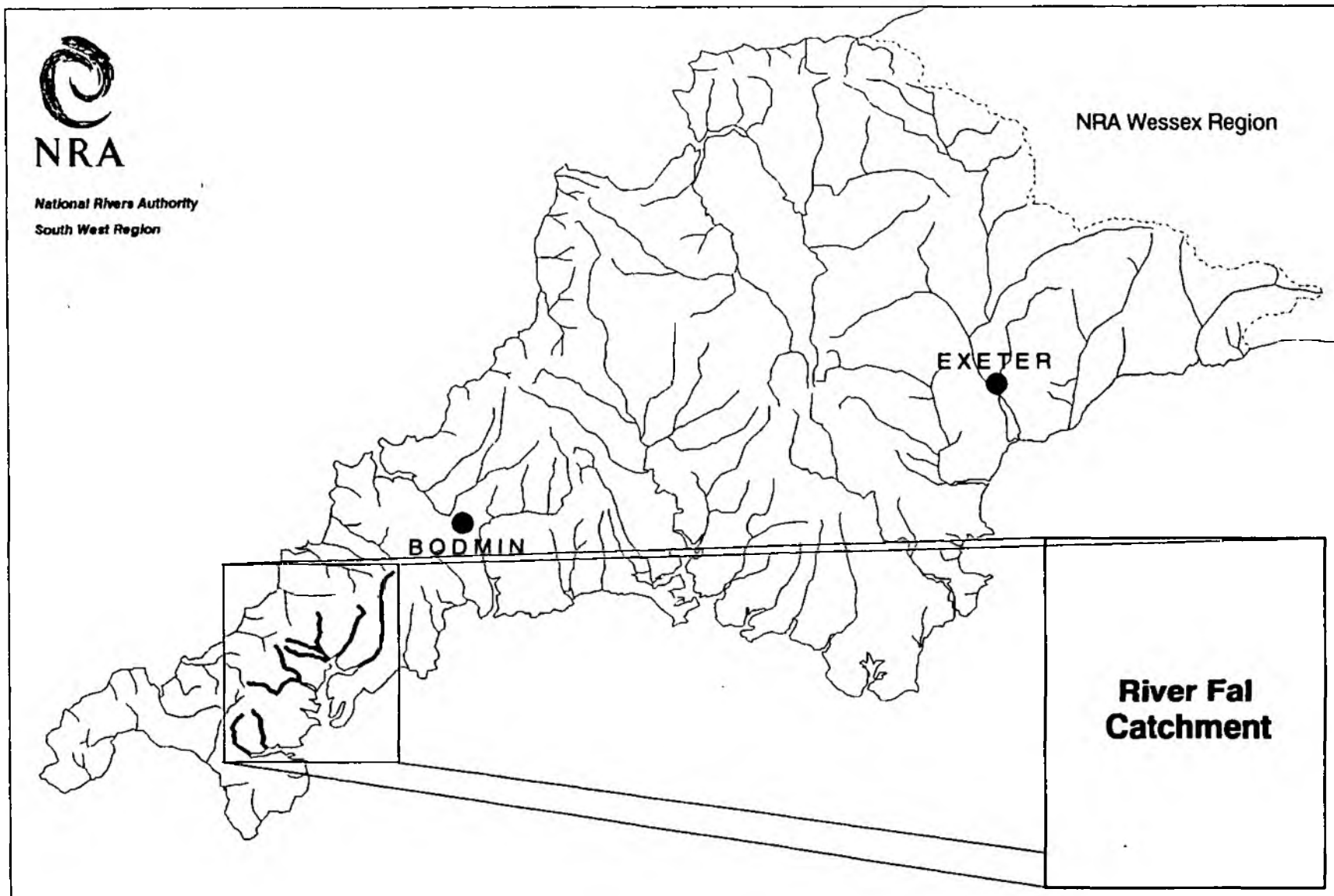
NRA Wessex Region

EXETER

BODMIN

**River Fal
Catchment**

River Fal 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.

3 CHALLENGES AND ACTIONS

This catchment plan area dominated by the combined estuaries of the Carrick Roads incorporates the River Fal, Helford River and Lizard Peninsula. The main tributaries include the Allen, Kenwyn, Tresillian, Carnon and Kennal rivers. Draining a large area of west Cornwall, the water quality has been seriously affected by mining and quarrying activity in the past and is now threatened by the consequences of the closure of the Wheal Jane tin mine.

The Fal supports a diverse range of activities including a major commercial port, fishing and tourism. Falmouth and Truro have been subject to rapid growth of population in recent years.

The aims of the plan are to maintain existing water quality and existing runs of game fish; reintroduce salmon to the Fal system; promote sewerage improvements and develop long term plans for the achievement of water quality objectives.

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
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FISHERIES

Enforce and monitor fixed net legislation.

Enforce and monitor netting ban for sea fish in estuary.

Enforce bass legislation for rod fishing.

Enforce shell fish regulations and review byelaws.

Survey weirs and fish passes. Plan and implement fish pass installation/maintenance.

Ensure free passage of salmonids through Truro.

Survey for trash dams/plan/clearance.

Plan and implement spawning gravel rehabilitation work.

ACTIONTIMETABLE

1991	1992	1993	1994	1995
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FISHERIES CONTINUED

Carry out juvenile surveys where appropriate.

Programme to be determined

Consider introduction of juvenile salmon into Fal system.

POLLUTION CONTROL

Carry out a review of water quality in the catchment

Investigate causes of non-compliance with water quality objectives and undertake task-force programme of remedial action.

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

Assess impact of run-off from Culdrose Airport on receiving water quality and take action to minimise effects.

Assess impact of historic mining activities on water quality.

Promote remedial action to minimise the impact of discharges resulting from the closure of Wheal Jane mine.

Install automatic quality monitors in the Carnon River.

Assess impact of landfill at United Mines on water quality and recommend remedial action as appropriate.

Pre and post schemes appraisal of SWWS capital improvement programme. In particular Falmouth.

Develop catchment quality model using QUASAR.

ACTIONTIMETABLE

1991 1992 1993 1994 1995

Determine deemed discharge consents.

Prepare catchment description.

Develop estuary management plan.

Pre and post scheme appraisal of the construction of Falmouth Container Terminal.

Assess impact of 1990 drought at one site.

Undertake blue-green algae action plan.

Liaise with EHO's to identify private potable supplies and develop database.

Baseline survey of groundwater quality to determine:

(a) suitability for potable use.

(b) compliance with appropriate EC Directive standards.

WATER RESOURCES

Review low flow problem sites and promote alleviation schemes at priority sites.

Install flow gauging stations at County Adit, Wheal Jane Adit and in the Carnon River.

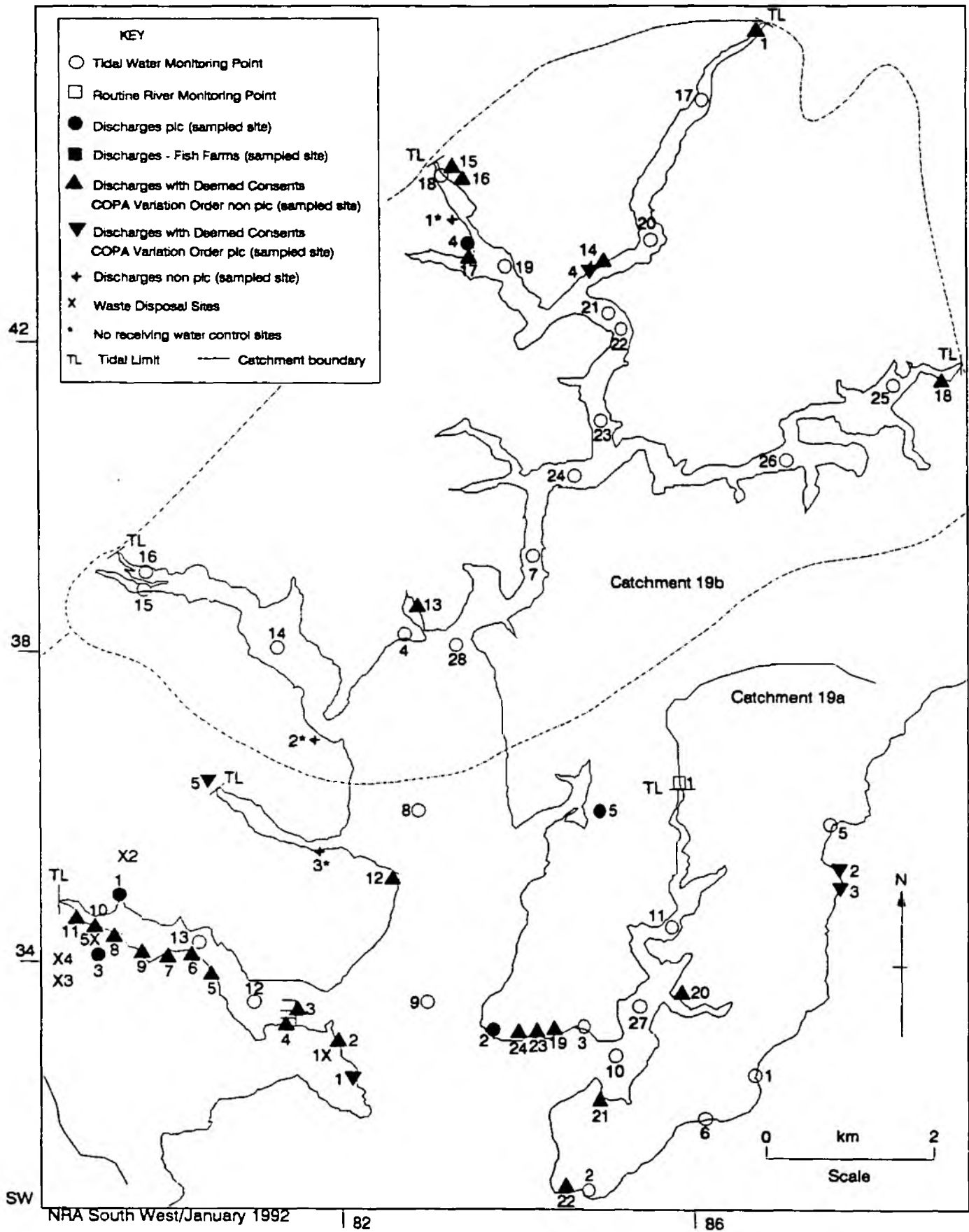
FLOOD DEFENCE

Maintain Truro FAS.

Programme to be determined

Programme to be determined

Fal Estuary 19A & 19B



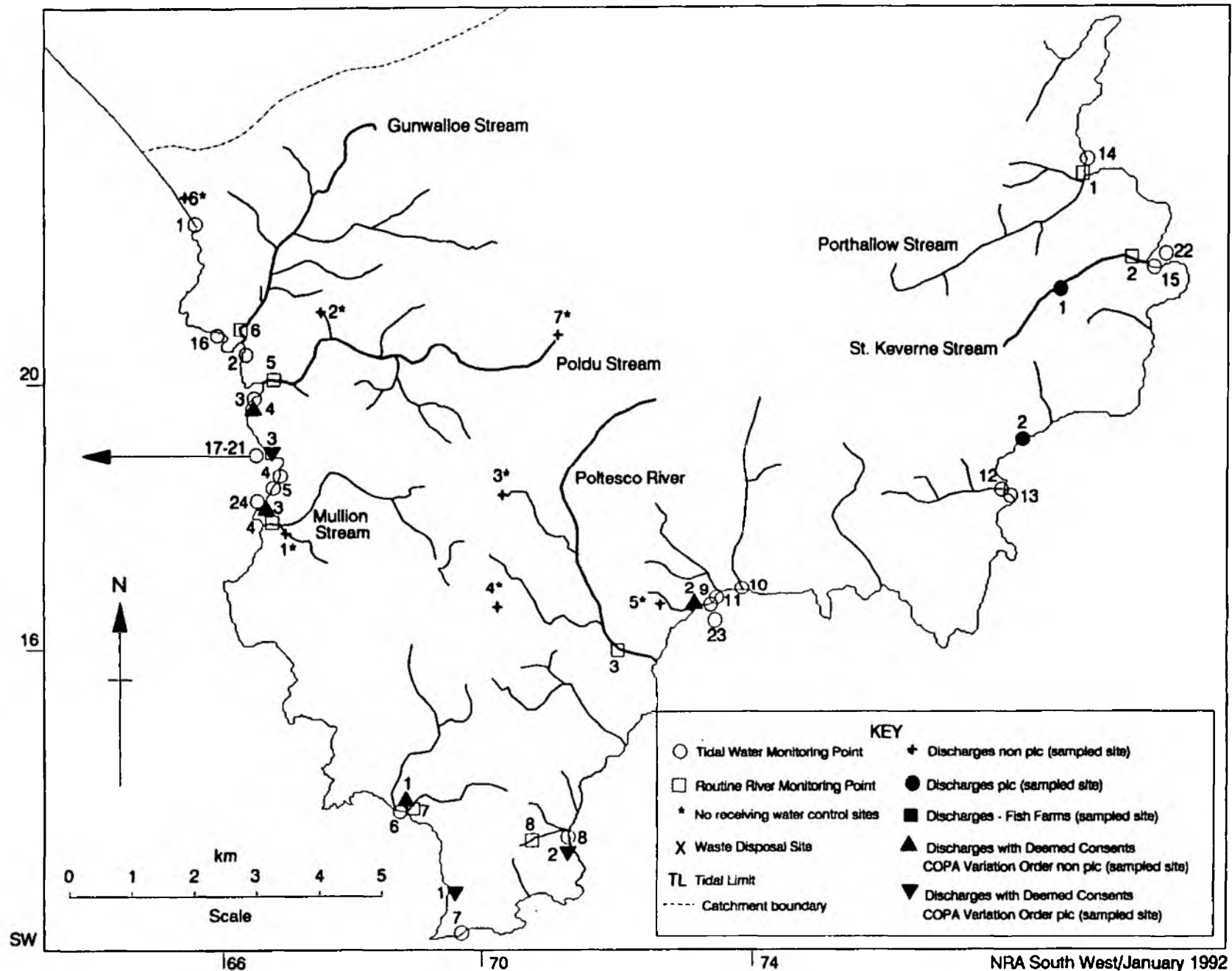
FAL ESTUARY 19A & 19B

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P19B/P/403	SW83344330	Wheal Jane Lighterage Quay	Trade effluent Site for current dangerous substances
2*	P19B/P/23	SW81413727	Pandora Inn, Restronguet	Sewage treatment works
3*	P19A/P/21	SW82103520	Mylor Docks	Sewage treatment works
DISCHARGES PLC				
1	P19A/P/36	SW79303460	Bissom Gorran	Sewage treatment works
2	WSTW0216FE	SW83793332	St Mawes	Sewage treatment works
3	WWTW0809D	SW77753377	College	Water treatment works
4	WSTW0240FE	SW83474325	Truro (Newham)	Sewage treatment works Site for current and proposed dangerous substances
5	WSTW214FE	SW85513585	St Just In Roseland	Sewage Treatment Work
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
1	P19B/P/411	SW86514611	Tower House Tresillian	
2	P19A/P/425	SW82383226	Tank Farm, Separator Facility	
3	P19A/P/423	SW89424193	The Docks - Falmouth	
4	P19A/P/422	SW81523264	The Docks - Falmouth	
	P19A/P/424	SW81813265	Falmouth Fishselling Co	
5	P19A/P/421	SW79253416	Waterside Hse, Penryn	
6	P19A/P/420	SW78973419	Falmouth Rd, Penryn	
7	P19A/P/419	SW78793420	UBM Building Supplies, Falmouth	
8	P19A/P/417	SW78793420	Grenville Motors, Penryn	
	P19A/P/418	SW78773420	Westland Gears, Penryn	
9	P19A/P/416	SW78843437	Garden Machinery, Commercial Rd	
10	P19A/P/415	SW78453446	The Boat Hse, Commercial Rd, Penryn	
11	P19A/P/414	SW78573458	Ivan Kessel Garages, Commercial Road	
12	P19A/P/413	SW82353521	Churchtown Farm, Mylor	
13	P19B/P/417	SW82633877	Houses off Feock, Truro	
14	P19B/P/406	SW84604290	Bar Creek, Malpas	
15	P19B/P/401	SW82684496	Toilets, Millpool, Truro	
16	P19B/P/402	SW82884484	Duchy Wharf, Truro	
17	P19B/P/403	SW83344330	Lighterage Quay, Newham Wharf, Truro	
18	P19B/P/423	SW89244193	The Kings Head Inn, Ruan Lanihorne	
19	P19A/P/404	SW84733401	The Quay Shop St Mawes	
20	P19A/P/403	SW86043355	Quay Cottage, Trewnince, Portscatho	
21	P19A/P/402	SW85603220	St Antony in Roseland, Portscatho	
22	P19A/P/401	SW84603120	St Antony Lighthouse, Portscatho	
23	P19A/P/405	SW84363292	The Boathouse, St Mawes	
24	P19A/P/406	SW84103270	St Mawes Castle (Toilets)	
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
1	OUT0420FE	SW82603200	Middle Pt, Falmouth	Red list site Site for current and proposed dangerous substances
2	OUT0501	SW87923527	Portscatho 2	Outfall
3	OUT0500	SW87983514	Portscatho 1	Outfall
4	OUT0450	SW84524266	Malpas	Outfall
5	OUT0400	SW80903606	Mylor	Outfall

FAL ESTUARY 19A & 19B (cont)

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
WASTE DISPOSAL SITES				
1	080ANWAL	SW823324	Docks, Falmouth	
2	080AACAL	SW793349	Bissom Farm, Bissom	
3	080AAFAL	SW783331	Lower Kergilliack Quarry, Budock	
4	080ANAAL	SW774338	Kernick Road, St Gluvias	
5	080ASVAL	SW788341	Unit 6, Eastwood Park Est. Penryn	
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
1		SW87003290	Towan Beach	Non-identified bathing waters
2	BO594	SW84803163	St Antony Head	Non-identified bathing waters
3	BO597	SW85103300	St Mawes Beach	Non-identified bathing waters
4	BO595	SW82603810	Loe Beach	Non-identified bathing waters
5	BO591	SW87913605	Porthcurnick Beach	Non-identified bathing waters
6		SW86203200	Porthbeor Beach	Non-identified bathing waters
TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY				
7	E19B2	SW84143900	King Harry Ferry	Routine monitoring site
8	E19A6	SW83003633	Mid Channel	Routine monitoring site
				Water contact sports monitoring point
9	E19A7	SW83003663	St Mawes	Routine monitoring site
				Water contact sports monitoring point
10	E19A8	SW85653300	Lower Estuary	Routine monitoring site
11	E19A9	SW86223468	Mid Estuary	Routine monitoring site
12	E19A10	SW81103320	Falmouth Pier	Routine monitoring site
13	E19A11	SW79503412	Trevisson House	Routine monitoring site
14	E19A12	SW81133795	By Harcourt	Routine monitoring site
15	E19A13	SW79553870	Carclew	Routine monitoring site
16	E19A14	SW79563885	Devoran	Routine monitoring site
17	E19B12	SW86224588	By Treffry	Routine monitoring site
18	E19B10	SW82954425	Truro	Routine monitoring site
19	E19B9	SW83724320	At Malpas	Routine monitoring site
20	E19B11	SW85354380	By St Clement	Routine monitoring site
21	E19B8	SW85004255	Tregonian	Routine monitoring site
22	E19B7	SW84954242	Woodbury	Routine monitoring site
23	E19B3	SW84834142	Old Kea	Routine monitoring site
24	E19B4	SW84654035	Polgerran Wood	Routine monitoring site
25	E19B6	SW88704182	Ruan River	Routine monitoring site
26	E19B5	SW87254058	Mid Estuary	Routine monitoring site
TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING				
27	E19B	SW857338	Percuil River	Shellfish water directive sampling point
28	E19B	SW834383	Turnaware Bar	Shellfish water directive sampling point
ROUTINE RIVER MONITORING				
1	R19A013	SW86133638	Trethern Mill	

Lizard Peninsula Streams 19A



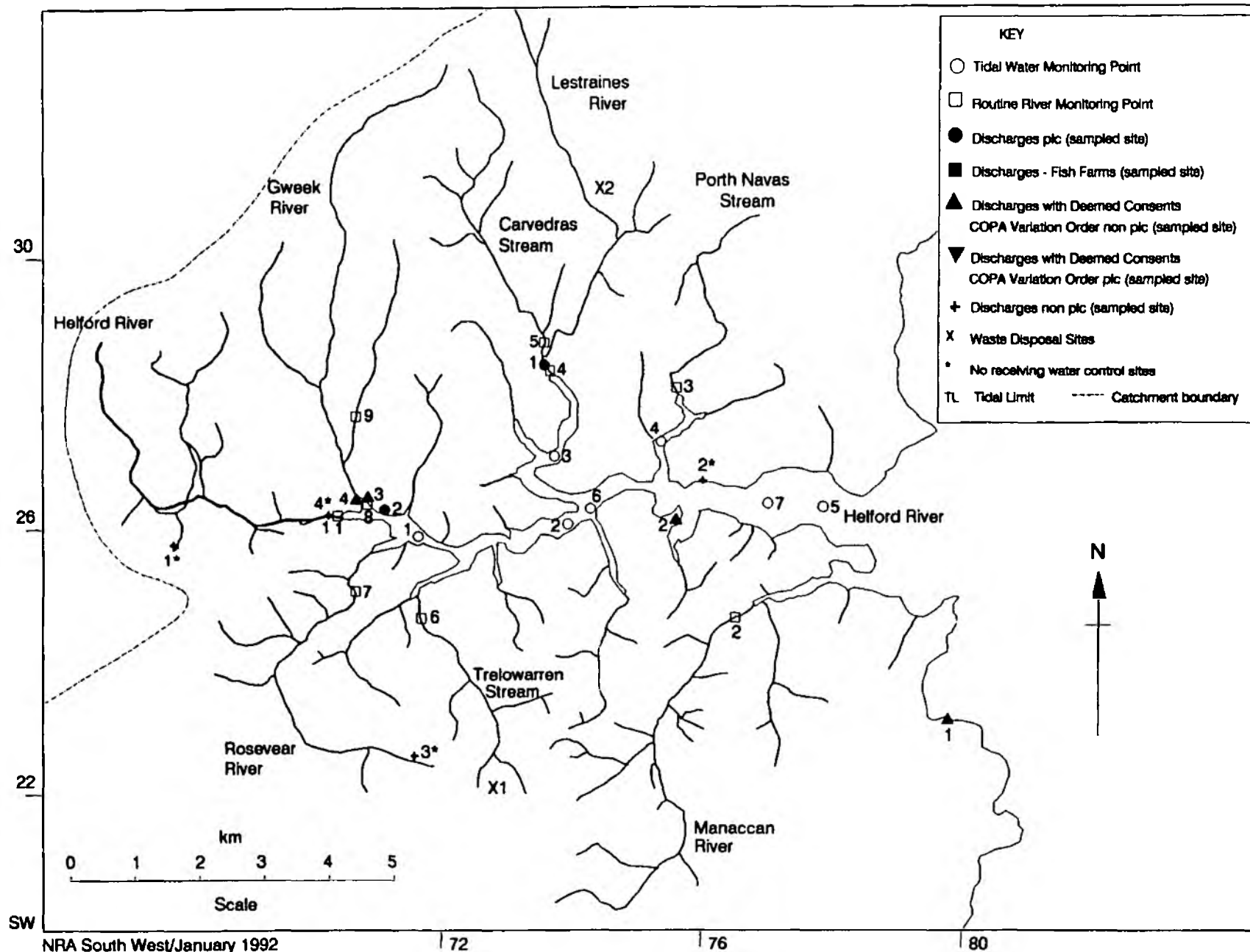
LIZARD PENINSULA STREAMS 19A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P19A/P/84	SW67181788	Criggan Mill	Caravan Park
2*	P19A/P/13	SW67702130	Cury White Cross	Sewage treatment works
3*	P19A/P/45	SW70401820	West Star Holidays	Sewage treatment works
4*	P19A/P/32	SW70201615	Lizard Chalet Park	Sewage treatment works
5*	P19A/P/18	SW72801660	Chycarne Holiday Park	Sewage treatment works
6*	P19A/P/10	SW65702270	Gunwalloe	Sewage treatment works
7*	P19A/P/85	SW72302130	Goonhilly	Sewage treatment works
DISCHARGES PLC				
1	WSTW0212FE	SW79172158	St Keverne	Sewage treatment works
2	WSTW0030FE	SW67123050	Coverack	Sewage treatment works
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
1	P19A/P/444	SW68401340	Kynance Beach Cafe, The Lizard	
	P19A/P/445	SW68411340	Smugglers Cottage, Kynance Cove	
2	P19A/P/441	SW73121620	Kennack Sands	
			Caravan Park	
3	P19A/P/446	SW66561807	Mullion Cove Hotel	
4	P19A/P/448	SW66291979	Poldhu Nursing Home	
DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER PLC				
1	OUT0503	SW69431244	Caerthillian Cove	
2	OUT0410	SW72071273	Church Cove	
3	OUT0538	SW66511902	Mullion/Polruan	Outfall Site for current dangerous substances
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
1	ECB0690	SW654225	Gunwalloe Cove	EC identified bathing waters
2		SW66102050	Church Cove	Non-identified bathing waters
3	ECB0680	SW665198	Poldhu Cove	EC identified bathing waters
4	ECBR0670	SX66851884	Polurrian Stream	Watercourse to beach
5	ECB0670	SW668187	Polurrian Cove	EC identified bathing waters
6		SW68351325	Kynance Cove	Non-identified bathing waters
7		SW70051150	Polpeor Cove	Non-identified bathing waters
8		SW71521275	Church Cove	Non-identified bathing waters
9	ECB0660	SW734165	Kennack Sands	EC identified bathing waters
10	ECBR0661	SW737166	Goonhilly Stream	Watercourse to beach
11	ECBR0660	SW735165	Stream A	Watercourse to beach
12	ECB0650	SW783184	Coverack Beach	EC identified bathing waters
13	ECBR0650	SW78251835	Coverack Stream	Watercourse to beach
14	ECB0630	SW797232	Porthallow Beach	EC identified bathing waters
15	ECB0640	SW806218	Porthoustock Beach	EC identified bathing waters
16		SW65922070	Jangye-Ryn	Non-identified bathing waters
TIDAL WATER QUALITY MONITORING POINT - COASTAL CLASSIFICATION				
17			Off Mullion (150m)	
18			Off Mullion (1Km)	
19			Off Mullion (2Km)	
20			Off Mullion (3Km)	
21			Off Mullion (4Km)	
TIDAL WATER QUALITY MONITORING POINT - WATER CONTACT SPORTS				
22			Porthoustock Beach	
23			Kennack Sands	
24			Mullion	

LIZARD PENINSULA STREAMS 19A (cont)

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
ROUTINE RIVER MONITORING				
1	R19A032	SW79702318	Porthallow	Chemical/biological site Tidal water monitoring point - bathing waters
2	R19A017	SW80582181	Porthoustock	Chemical/biological site Tidal water monitoring point - bathing waters
3	R19A016	SW72441568	Poltesco Bridge	Chemical/biological site
4	R19A012	SW66791789	Upstream of Harbour Porth Mellin	Chemical/biological site
5	R19A011	SW66682002	Prior Poldhu Beach	Chemical/biological site Tidal water monitoring point - bathing waters
6	R19A040	SW66092070	Winniaton Farm	Chemical/biological site
7		SW684134	Kynance Stream	Biological site
8	R19A018	SW71101258	U/S of Cove	Biological site

Helford Catchment 19A



HELDFORD CATCHMENT 19A

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAIL
DISCHARGES NON PLC				
1*	P19A/P/35	SW68002600	RNAS Culdrose (B)	Sewage treatment works
2*	P19A/P/16	SW76402680	Ferryboat Inn	Sewage treatment works
3*	P19A/P/37	SW71902210	Telstar Cafe	Sewage treatment works
4*	P19A/P/24	SW70302640	Gweek Council Hse	Sewage treatment works

DISCHARGES PLC				
1	WSTW0028FE	SW73702880	Constantine	Sewage treatment works
2	WSTW0074FE	SW70902652	Gweek Bovis	Sewage treatment works

DISCHARGES WITH DEEMED CONSENTS - COPA VARIATION ORDER NON PLC				
1	P19A/P/437	SW79702316	Five Pilchards Inn, Porthallow	
2	P19A/P/429	SW75822616	Helford Stores, Helston	
3	P19A/P/426	SW70632681	Post Office, Gweek	
	P19A/P/427	SW70632679	Gweek Inn, Gweek	
4	P19A/P/428	SW70782633	Seacore Ltd, Lower Quay, Gweek	

WASTE DISPOSAL SITES				
1	080ANFAL	SW730224	Trezise, St Martin	
2	080ARZAL	SW742315	Jobbs Water, Mabe	

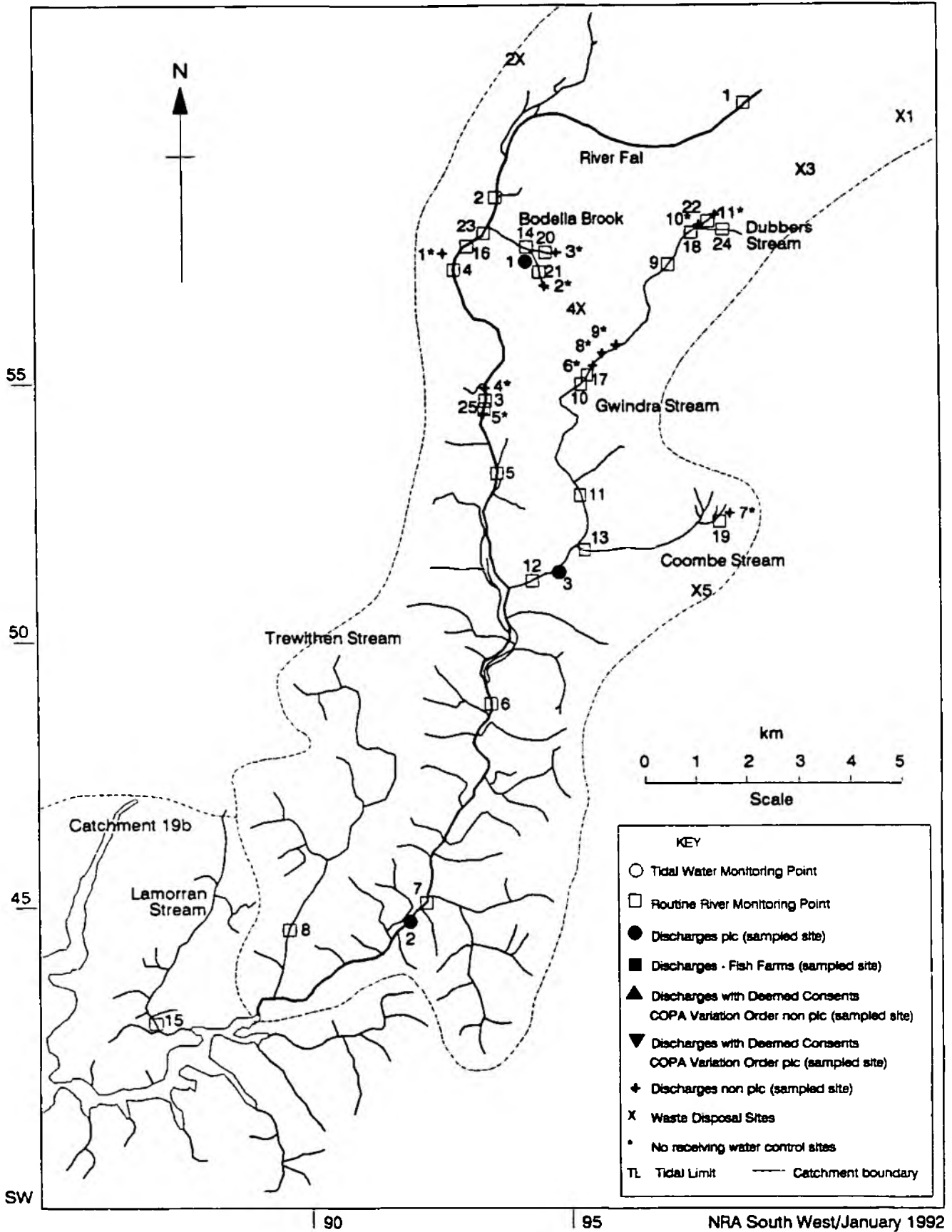
TIDAL WATER QUALITY MONITORING POINT - ESTUARY QUALITY				
1	E19A17	SW71452590	Bonallack Barton	Routine monitoring site
2	E19A16	SW74002618	By Groyne Point	Routine monitoring site
3	E19A19	SW73902730	Polwheveral Creek	Routine monitoring site
4	E19A18	SW75582765	Porthnavas Creek	Routine monitoring site
5	E19A15	SW77522668	Mouth of Estuary	Routine monitoring site
				Water contact sports monitoring point

TIDAL WATER QUALITY MONITORING POINT - EC DESIGNATED SHELLFISHERIES				
6	E19A	SW746264	Frenchman's Creek	Bioaccumulation Programme

TIDAL WATER QUALITY MONITORING POINT - WATER CONTACT SPORTS				
7			Helford Estuary	

ROUTINE RIVER MONITORING				
1	R19A005	SW70392649	U/S of Gweek Mill	Chemical/biological site
2	R19A021	SW76402468	Manaccan Rd Bridge	Chemical/biological site
3	R19A001	SW75752826	Roskilling Bridge	Chemical/biological site
				Dangerous Substances Directive
4	R19A003	SW73692845	Polwheveral Bridge	Chemical/biological site
5	R19A027	SW73742910	Prior to	
			Lestraines River	Chemical/biological site
6	R19A030	SW71732483	Trelowarren Mill	Chemical/biological site
7	R19A043	SW70332555	Ponson Tuel Ford	
			(Relocated Site)	Chemical/biological site
8	R19A042	SW70612685	Danneto Cottage	
			(Relocated Site)	Chemical/biological site
9		SW707273	Tolvan Cross Stream	Biological site

Fal Catchment 19C



FAL CATCHMENT 19C

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON PLC				
1*	P19C/P/26	SW92705740	McLarens	C.P. 1/1 China Clay
2*	P19C/P/18	SW94405690	Parkandillick	C.P. 6/3 China Clay
3*	P19C/P/37	SW94705700	Treviscoe Dryers	C.P. /7 China Clay
4*	P19C/P/54	SW93305490	Kernick Mica Dam	C.P. 7/24 China Clay
5*	P19C/P/15	SW93205460	Melbur Driers	C.P. 7/9 China Clay
	P19C/P/14	SW93205460	Melbur Plant	C.P. 3/1 China Clay
6*	P19C/P/21	SW95605520	Drinnick Dryers	C.P. 12/3 Process waste
7*	P19C/P/91	SW97905250	Burngullow Dryers	C.P. 13/2 Process Waste
	P19C/P/92	SW97905260	Burngullow Tube	C.P. 13/7 Process waste
8*	P19C/P/41	SW95805550	Goverseth Plant	C.P. 12/14 Process waste
9*	P19C/P/29	SW95815532	Drinnick Power St.	C.P. 12/7 Process waste
	P19C/P/39	SW95705510	Drinnick Driers	C.P. 12/4 Process waste
10*	P19C/P/53	SW96905600	Dubbers Pit	C.P. 11/4 Process Waste
	P19C/P/82	SW96805600	Dubbers C.P.	Process waste
11*	P19C/P/85	SW96605660	Currian C.P.	Process waste

DISCHARGES PLC				
1	WSTW1708FE	SW94155772	St Dennis	Sewage treatment works
2	WSTW0236FE	SW91834458	Tregony	Sewage treatment works
3	WSTW1718FE	SW94205090	St Stephens Coombe	Sewage treatment works

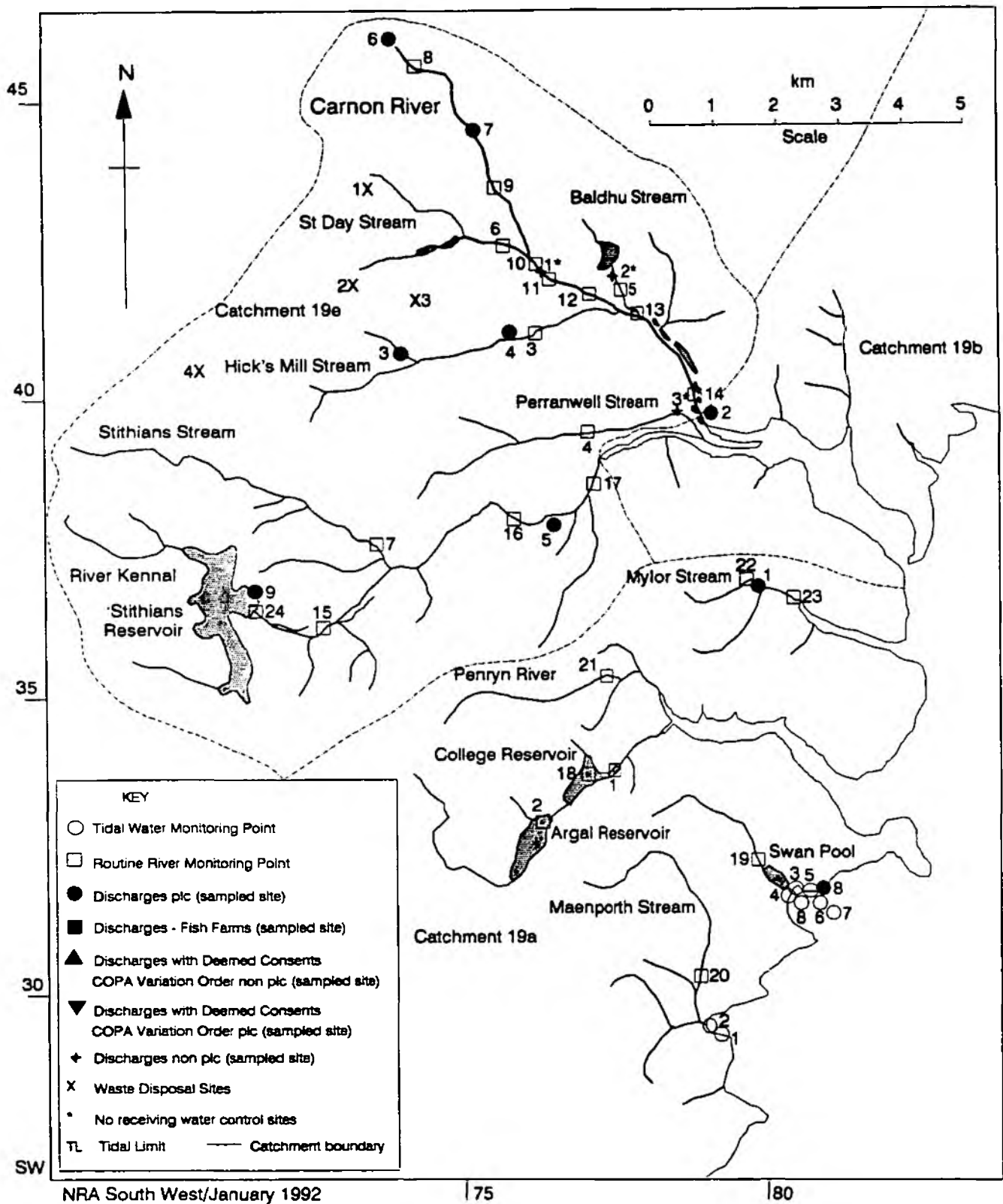
WASTE DISPOSAL SITES				
1	080ARAC	SW988593	Glebe Quarry, Roche	
2	080APLAC	SW941606	Deep Tyre Farm, Blackacre	
3	080APNAC	SW974585	Gothers Hill, St Dennis	
4	080ARRAL	SW954556	Dukes Quarry, Nanpean, St Dennis	
5	080ASTAL	SW962508	Fairview, Dowgas, Coombe	

ROUTINE RIVER MONITORING				
1	R19C001	SW96556013	Tregoss Bridge	Chemical/biological site
2	R19C002	SW93735875	Gaverigan Bridge	Chemical/biological site
3	R19C011	SW93255464	Kernick Bridge	Chemical/biological site
4	R19C003	SW92655696	Retew Bridge	Chemical/biological site
5	R19C004	SW93505328	Terras Br (A3058)	Chemical/biological site
6	R19C005	SW93364844	Grampound Bridge	Chemical/biological site
7	R19C006	SW92054473	Tregoney Gauging St	Chemical/biological site
				Dangerous substances site
				Harmonised monitoring point
				Exchange of information site
				Red list site
8	R19C016	SW89554438	Melingoose	Chemical/biological site
9	R19C014	SW96325586	Nanpean Bridge	Chemical/biological site
10	R19C017	SW95555491	Goonabarn	Chemical/biological site
11	R19C008	SW95105290	Gwindra Bridge	Chemical/biological site
12	R19C009	SW93805065	Treway Bridge	Chemical/biological site
13	R19C021	SW95125167	Coombe (New Site)	Chemical/biological site
14	R19C018	SW94095765	Carsella	Chemical/biological site
15	R19C019	SW87094185	Lamorran Wood	Chemical/biological site
16	R19C029	SW92685725	D/s McClarens	Chemical site
				Dangerous substances site

FAL CATCHMENT 19C (cont)

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
ROUTINE RIVER MONITORING				
17	R19C022	SW95705510	D/s Drinnick	Chemical site Dangerous substances site
18	R19C023	SW96605655	D/s Currian CP	Chemical site Dangerous substances site
19	R19C024	SW97905260	D/s Burngullow Tube PR.13/7	Chemical site Dangerous substances site
20	R19C026	SW94805700	D/s Treviscoe Dryer	Chemical site Dangerous substances site
21	R19C027	SW94405700	D/s Parkandillick 6 / 3	Chemical site Dangerous substances site
22	R19C032	SW96605675	Currian Vale	Chemical site Dangerous substances site
23	R19C031	SW93005756	D/s Trerice Bridge	Chemical site Dangerous substances site
24	R19C030	SW96805600	D/s Dubbers CP & 11/4	Chemical site Dangerous substances site
25	R19C028	SW93255462	D/s Melbur Dryers	Chemical site Dangerous substances site

Carnon & Kennal Catchments 19A & 19E



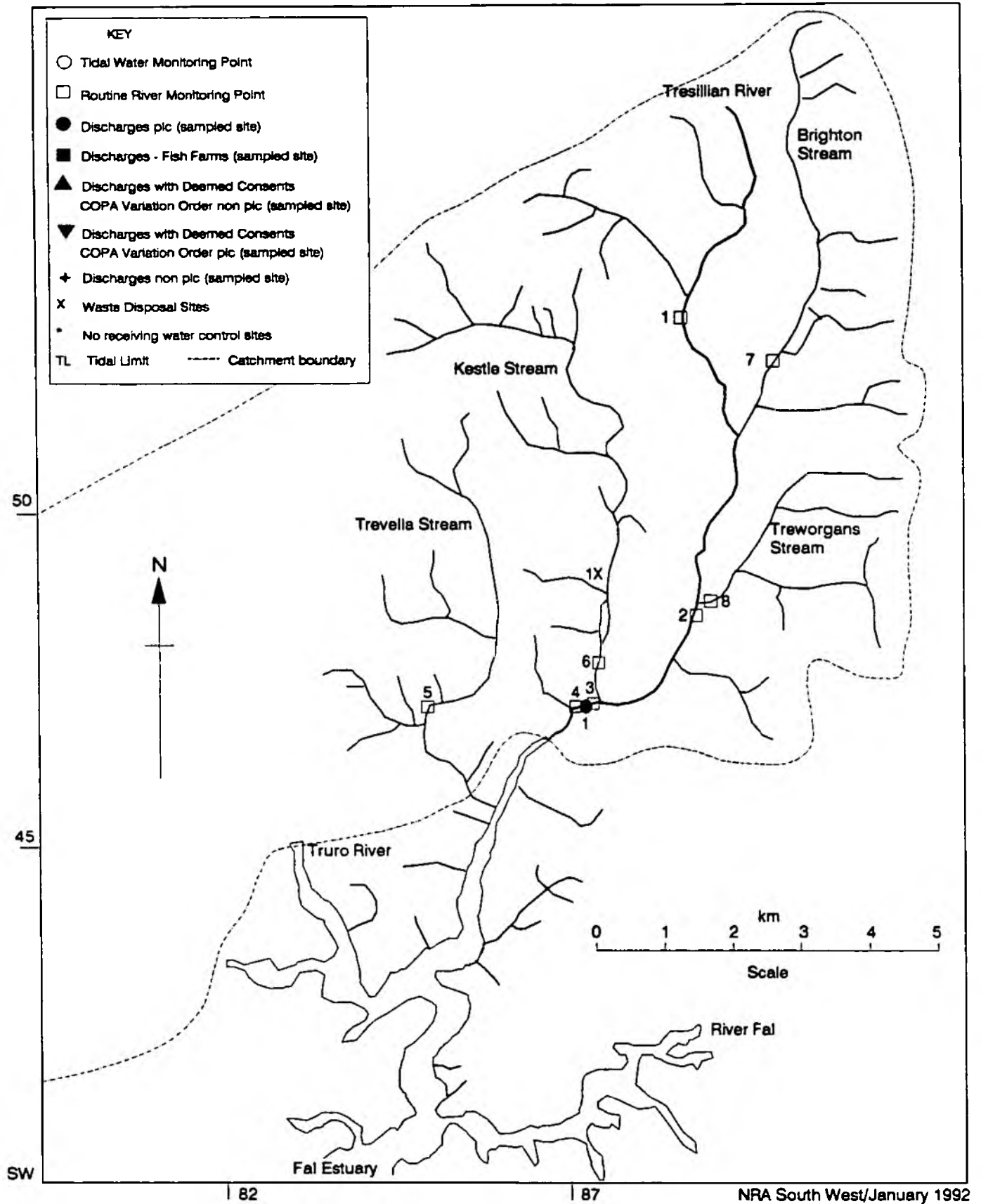
CARNON & KENNAI CATCHMENTS 19A & 19E

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES NON LC				
1*	P19E/P/18	SW76324184	Wellington	Adit
2*	R19E/P/17	SW774417	Clemow's Valley	Tailings dam
3*	P19B/P/18	SW78803940	Vissacks Engineers	Sewage treatment works
DISCHARGES PLC				
1	WSTW0140FE	SW79803640	Mylor Bridge	Sewage treatment works
2	WSTW0024FE	SW78804000	Carnon Down/Devoran	Sewage treatment works
3	WSTW0126FE	SW74754051	Lanner St Day	Sewage treatment works
4	WSTW0062FE	SW76104080	Frogpool	Sewage treatment works
5	WSTW0178FE	SW76503780	Stithians	Sewage treatment works
6	WSTW0012FE	SW74024560	Blackwater	Sewage treatment works
7	WSTW0026FE	SW75274420	Chacewater	Sewage treatment works
8	OUT0418	SW80903150	Gyllyngvase	Outfall
9	WWTW0833D1	SW71953635	Stithians	Sludge plant
WASTE DISPOSAL ITES				
1	080AALAL	SW738431	Little Beside, Crofthandy	
2	080APVAL	SW74-42-	Goongumpas, Crofthandy	
3	080ANGAL	SW745410	United Mines, St Day	
4	080ARFAL	SW715404	Tresamble, Gwennap, Carharrack	
TIDAL WATER QUALITY MONITORING POINT - BATHING WATERS				
1	ECB0620	SW790296	Maenporth Beach	EC identified bathing waters
2	ECBR0620	SW789296	Maenporth stream	Watercourse to beach
3	ECB0610	SW803313	Swanpool Beach	EC identified bathing waters
4	ECBR0610	SW80253130	Swan Pool	Watercourse to beach
5	ECB0600	SW809316	Gyllyngvase	EC identified bathing waters
TIDAL WATER QUALITY MONITORING POINT - BIOTA SAMPLING				
6	SF007	SW81003170	Gyllyngvase	Bioaccumulation programme
TIDAL WATER QUALITY MONITORING POINT - WATER CONTACT SPORTS				
7			Gyllyngvase Beach	
8			Swanpool Beach	
ROUTINE RIVER MONITORING				
1	R19A047 R19A048	SW773336	College Res.	EC surface water abstraction directive monitoring site Algological site
2	R19A044 R19A045 R19A046	SW768324	Argal Res	EC surface water abstraction directive monitoring site Algological site
3	R19E019	SW76734115	Hick's Mill	Chemical/biological site Dangerous Substances Directive
4	R19E020	SW77583940	Perranwell	Chemical/biological site
5	R19E021	SW77604146	Bissoe Bridge	Chemical/biological site Dangerous Substances Directive
6	R19E022	SW75954225	Twelveheads	Chemical/biological site Dangerous Substances Directive
7	R19E023	SW73493735	Seaureaugh Moor	Chemical/biological site

CARNON & KENNAL CATCHMENTS 19A & 19E (cont)

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
ROUTINE RIVER M	NITORING			
8	R19E016	SW74464520	Chacewater Viaduct	Chemical/biological site Dangerous substances control site
9	R19E008	SW75404328	Below Chacewater STW	Chemical/biological site Dangerous substances site
10	R19E001	SW76184194	Twelveheads	Chemical/biological site
11	R19E002	SW76604170	County Adit	Chemical site Dangerous Substances Directive
12	R19E015	SW76694146	D/S County and Wellington Adits	Chemical/biological site Dangerous substances site Dangerous Substances Directive
13	R19E003	SW77584115	Bissoe Bridge	Chemical/biological site Dangerous substances site
14	R19E004	SW79103941	Devoran Bridge	Chemical/biological site Dangerous substances site Harmonised monitoring point Exchange of information site Red list site
15	R19E005	SW73003613	Tregolls Bridge	Chemical/biological site
16	R19E006	SW76313768	Ponsanooth Gauging Station	Chemical/ biological site
17	R19E007	SW77353819	Sticken Bridge	Chemical/biological site Freshwater Fish Directive
18	R19A033	SW77183355	College Reservoir	Chemical site Freshwater Fish Directive Algological site
19	R19A009	SW80043166	Above Swanpool	Chemical/biological site
20	R19A008	SW78833028	Tregedna Bridge	Chemical/biological site
21	R19A037	SW77353505	Tremough	Chemical/biological site
22	R19A035	SW79083658	Enys	Chemical/biological site
23	R19A014	SW80433611	Mylor Bridge	Chemical/biological site
24	R19E024 R19E025	SW719363	Stithians Reservoir	EC surface water abstraction directive monitoring site Algological site

Tresillian Catchment 19D



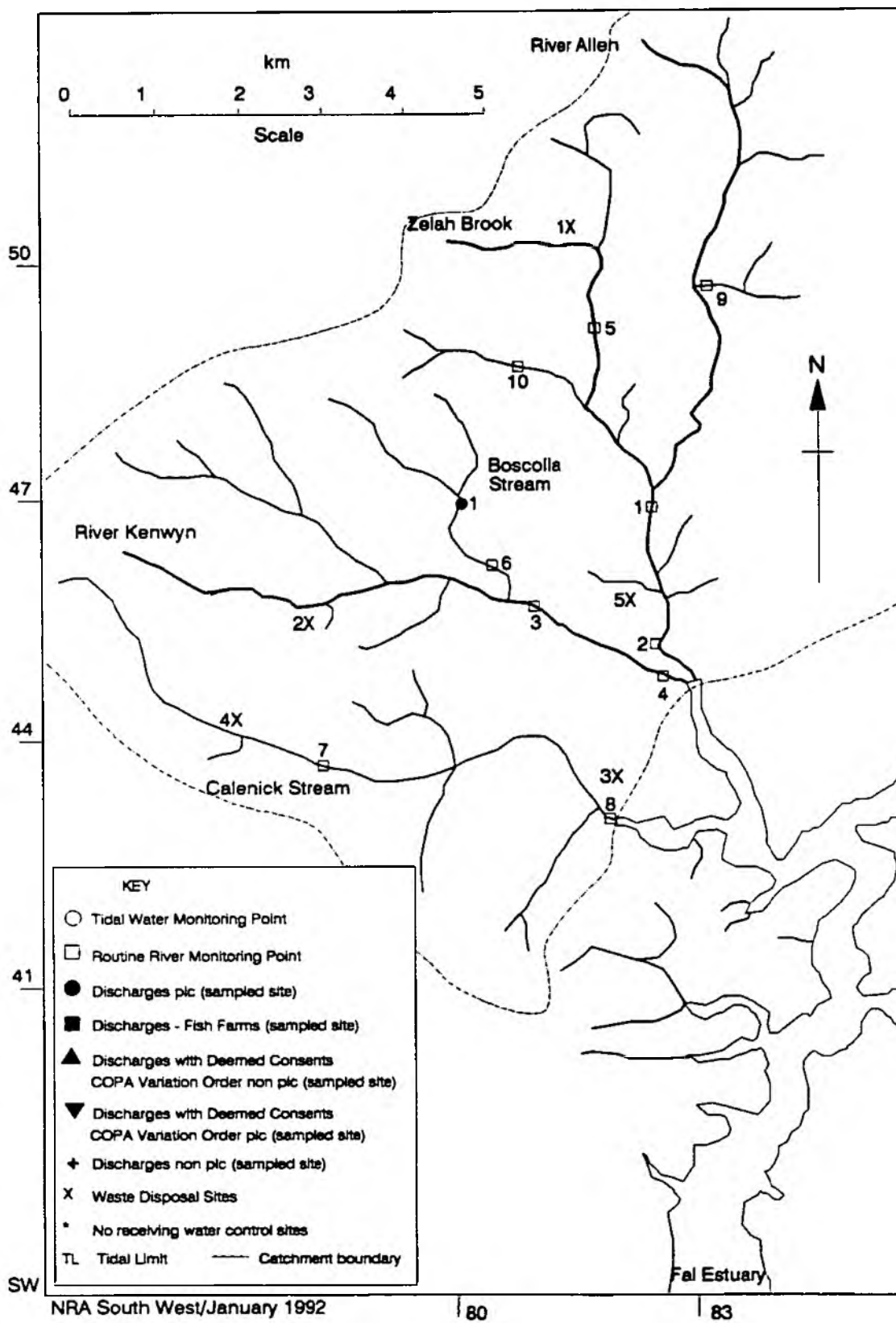
TRESILLIAN CATCHMENT 19D

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES PLC				
1	WSTW0128FE	SW87104706	Ladock Valley	Sewage treatment works

WASTE DISPOSAL SITES				
1	080APJAL	SW873490	Candor, Probus	

ROUTINE RIVER MONITORING				
1	R19D033	SW88685283	Trendeal	Chemical/biological site
2	R19D002	SW88554810	Tresowgar Bridge	Chemical/biological site
3	R19D032	SW87134706	Tresillian Pumping Station	Chemical/biological site Freshwater Fish Directive
4	R19D034	SW87104695	Below Laddock STW	Chemical/biological site
5	R19D014	SW84834689	Tregurra Bridge	Chemical/biological site
6	R19D008	SW87374770	Candor Ford	Chemical/biological site
7	R19D005	SW90015228	New Mills	Chemical/biological site
8		SW888485	Treworgans Stream	Biological site

Kenwyn & Allen Catchments 19D



KENNYN & ALLEN CATCHMENTS 19D

NO	REFERENCE	NGR	LOCATION	ADDITIONAL DETAILS
DISCHARGES PLC				
1	WSTW0220FE	SW80054703	Shortlanesend	Sewage treatment works
ROUTINE RIVER MONITORING				
1	R19D018	SW82184701	Idless Bridge	Chemical/biological site Dangerous Substances Directive
2	R19D004	SW82684505	Moresk Laundry Br	Chemical/biological site Freshwater Fish Directive
3	R19D016	SW80854587	New Mill	Chemical/biological site
4	R19D007	SW81614528	Bosvigo Bridge	Chemical/biological site Freshwater Fish Directive
5	R19D030	SW81654923	Gwarnick Mill	Chemical/biological site
6	R19D023	SW80154629	Boscolla Ford	Chemical/biological site
7	R19D025	SW78404380	Hugus	Chemical/biological site
8	R19D006	SW82204310	Calenick Bridge	Chemical/biological site Freshwater Fish Directive Dangerous Substances Directive
9		SW831499	Trispen Stream	Biological site
10		SW814483	Ninnis Stream	Biological site
WASTE DISPOSAL SITES				
1	080ASMAL	SW812503	Boswellick, St Allwn	
2	080ASSAL	SW779459	Langarte Farm, Threemilestone	
3	080ASWAL	SW819434	Builders Yard, Calenick	
4	080ARJAL	SW763448	Greenbottom, Chasewater	
5	080ASDAL	SW820460	Ideless Valley	

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.