H10

GODALMING STW

GODALMING STW

Address & Contacts

Thames Water Utilities Ltd
Unstead Sewage Treatment Works
Trunley Heath Road
Peasmarsh
Godamling

Tel. 0483 892211
Out of Hours Tel. Abbey Mills Control Room 081 5190 847
Superintendent: William Hayes-Davies
H.C.O.: Bill Mann (Cranleigh STW)

Flows & Consents

Average incoming flow:	8966m^3/day
Dry weather flow:	6856m^3/day
Maximum flow:	15,910m^3/day
Population size:	28,000

Consent B0659 - Fully Treated Final Effluent

Suspended Solids at 105°C	45mg/l
BOD (ATU) in 5 days at 20°C	15mg/l
Ammoniacal Nitrogen	8mg/l
Maximum discharge rate	15,910m^3/d
Nickel	0.2mg/l
Copper	0.1mg/l
Zinc	0.4mg/l
Chromium	0.1mg/l
Total Lead	0.02mg/l
Cadmium	0.07mg/l
Oil or grease (invisible)	20mg/l

Temporary Consent No. 2614 - storm sewage

Granted by the D.O.E. 11/9/89.
Discharge to take place at SU 994 457 (Outfall No. 1)
No numerical conditions.

Sampling Points

PWEE.0087C - Godalming STW No. 1 outfall (direct discharge from STW and currently only used when work being carried out on other outfalls
PWEE.0301C - Godalming STW No. 2 outfall)effluent from
PWEE.0302C - Godalming STW No. 3 outfall (often submerged))Land Treatment

PWER.0029 - u/s sampling point at Tilthams Corner Road Bridge
PWER.0135 - Wey d/s STW
PWER.0151 - Wey u/s Cranleigh Waters
PWER.0119 - Wey at Broadford Road Bridge
PWER.0031 - Wey u/s Tillingbourne - used for Reach Assessment

Navigation Sampling Points

PWER.0120 - Wey Nav. at Tilthams Corner Road Bridge
PWER.0121 - Wey Nav. at Peasmarsh

Receiving Watercourse

Receiving watercourse is R. Wey (Combined). RQO is 1b and is achieving this at present.
STW discharges to a branch of the main river which is off the Navigation channel. Upstream flows are controlled by a weir which is operated by the National Trust in conjunction with their lock and weir at Unstead.

Times of Travel of this section of river are as follows:-

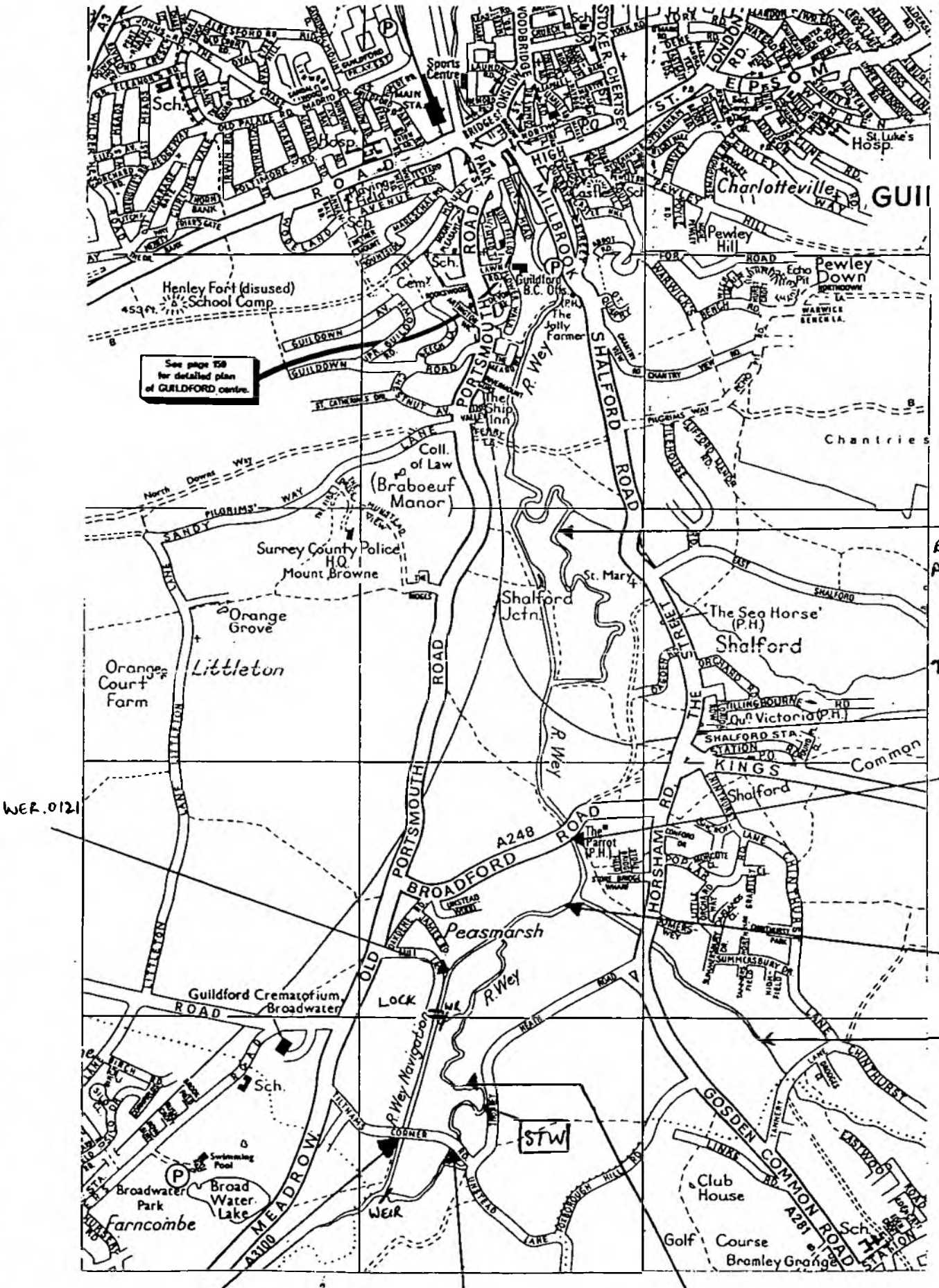
Wey Navigation Split (at weir u/s STW) to Cranleigh Waters Confluence	3.3 hrs	
Cranleigh Waters confluence to Tillingbourne confluence	7 hrs	
Tillingbourne confluence to Guildford STW	21.5 hrs	
(Flows at Tilford 1.3 to 1.5 cumecs		Reach Length
Weybridge 2.6 to 7.8 cumecs)		2.2 km
		2.1km
		6.5km

Plant Type

New inlet works - 2 fine screens + 2 Detritors + screen waste disposal plant.
2 Primary settlement tanks (new)
8 filter beds (4 new and 4 old)
7 Humus Tanks (5 old, taking 50% effluent + 2 new)
3 Storm Tanks
2 Sludge Holding Tanks + Press House
2 Effluent lagoons (1 always in use, 1 for overflow)
Land Treatment area

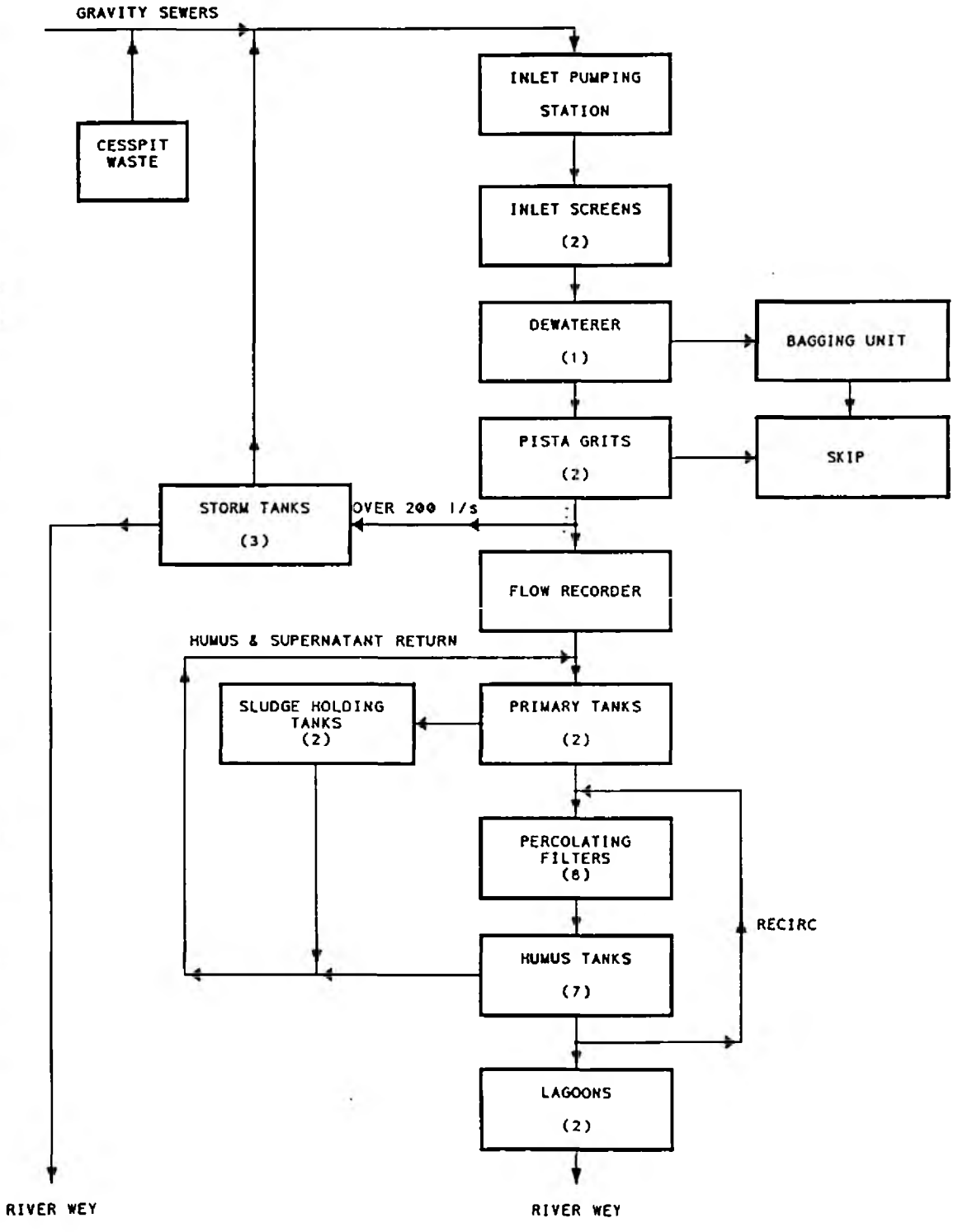
All final effluent currently discharges to lagoon and then land treatment area where it discharges to the river via outfalls 2 and 3.

GODALMING STW



GODALMING STW

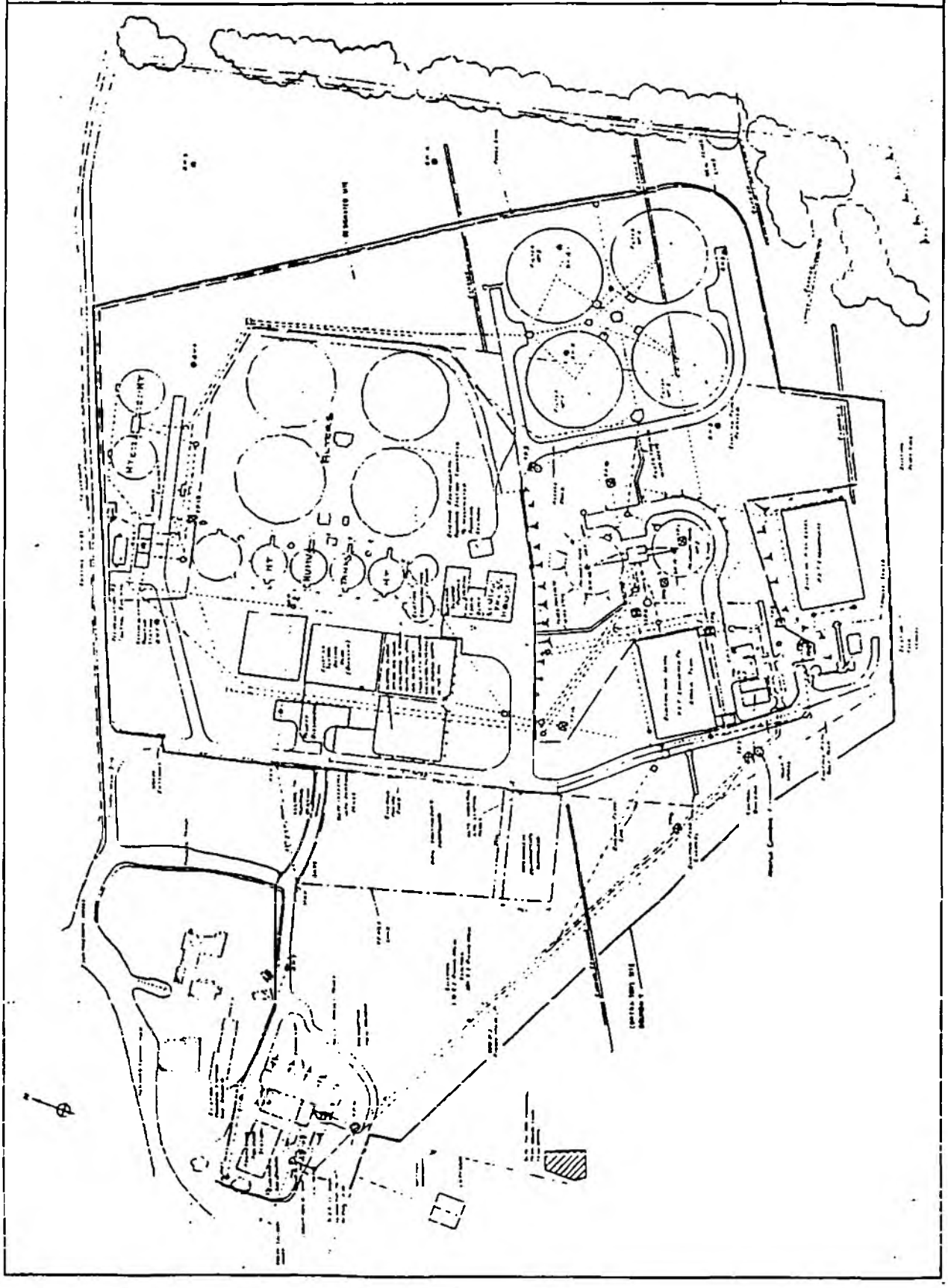
FLOW DIAGRAM



STRANDS

GOD.1

SITE : GODALMING Sludge Treatment & Disposal Operations	DATE : AUGUST 1991	



SOUTH EAST AREA | POLLUTION PREVENTION REPORT - STW (>20 m³/d)

SITE REF		FILE REF	sew/God	GRID REF	

COMPANY: T.W.U.

ADDRESS: Unstead STW (Godalming), Trunley Heath Rd, Peasmarsh, Godalming

CONSENTS: B 0659 - fully Treated effluent; 2614 - Temporary Storm Discharge

MANAGER ~~superintendent~~: William Hayes-Davies — TEL: 0483 892211

ALT CONTACT HCO: Bill Mann — OUT OF HOURS: 081 5190 847

TYPE OF BUSINESS: Sewage Treatment — MAIN PROCESS: Biological filters

RISK CATEGORY: Med. — HAZARDOUS SUBSTANCE SITE:

WATERCOURSE: Wey (combined) — OUTFALL DETAILS: No. 1 Direct from STW, No.s 2 & 3 from land area

INSPECTION DATE	2/11/92	OFFICERS INITIALS	JPK	POLLUTION	No
RELATED INCIDENT REF	—	LETTER SENT	No	REPLY	

COMMENTS

INLET SCREENS	2
MACERATOR	X screen waste bagging unit
GRIT REMOVAL	2 detritors
SETTLEMENT TANKS	2
STORM TANKS	3
PERCOLATING FILTER	4 new + 4 old (new - coal slag media)
ACTIVATED SLUDGE	—
FINAL SETT. TANKS	5 old (50% effluent) + 2 new (50% effluent)
TERTIARY TREATMENT	2 lagoons + land treatment area
OTHER PROBLEMS	—
ADDITIONAL COMMENTS	All effluent through Tertiary Treatment area. Second lagoon currently being repaired - poss. operational 1993.

Small discharge at No. 1 outfall due to poor fitting

Consent Number B0659

FIRST SCHEDULE

Description of discharge

The making of a discharge of sewage effluent from Godalming Sewage Works, Unstead, Nr. Godalming, Surrey to the River Wey.

SECOND SCHEDULE

Conditions

1. The discharge shall be made at National Grid Reference SU 994 457.

2. The discharge shall be made by means of one or more pipe outlets.

3. The discharge shall consist only of treated sewage effluent.

4. Facilities to enable the Authority's officers to take samples of the discharge shall be provided and maintained at each of the outlets.

5. The discharge shall conform to the following standard:

   a) Nickel content shall not exceed .20 mg/l.

   b) Copper content shall not exceed 100.00 ug/l.

   c) Zinc content shall not exceed 400.00 ug/l.

   d) Chromium content shall not exceed 100.00 ug/l.

   e) Total lead content shall not exceed 20.00 ug/l.

   f) Cadmium content shall not exceed 10.00 ug/l.

6. The discharge shall not contain any matter which will cause or be likely to cause the water in the River Wey to be poisonous or injurious to fish or the spawning grounds, spawn or food of fish.

7. The discharge shall not contain more than 20 mg/l of oil or grease and in any event shall not cause any visible trace of oil or grease to appear on the surface of the River Wey.

8. The volume of the discharge shall not exceed 15,910 cubic metres per day.

9. Subject to the third schedule of this consent, the discharge shall conform to the following standards:
   a) Suspended solids content (dried at 105 degrees Celsius) shall not exceed 45 mg/l.
   b) Biochemical Oxygen Demand in 5 days at 20 degrees Celsius (nitrification supressed with allylthiourea) shall not exceed 15 mg/l.
   c) Ammoniacal nitrogen content shall not exceed 8 mg/l

10. An efficient meter to measure the volume of effluent discharged in any one day shall be provided and installed by the discharger before any discharge is made in pursuance of this consent and thereafter maintained in good order to the satisfaction of the Authority's officers.

11. A log of the total quantity of effluent discharged each day as indicated by the meter readings shall be kept available for inspection by the Authority's officers at all reasonable times and details of the quantity of effluent discharged on each day in each twelve month period 1st July to 30th June in the next succeeding year shall be notified to the Catchment Control Manager, Kings Meadow House, Reading, Berkshire within 31 days of the end of each such period.

NRA

GODALMING - No. 2614 SU 994 457

WATER ACT 1989
TEMPORARY CONSENT TO DISCHARGE STORM SEWAGE

WHEREAS:-

(a) the THAMES Water Authority submitted applications to the Secretary of State dated 31 January and 28 July 1989 in accordance with section 34 of the Control of Pollution Act 1974, as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984, to discharge storm sewage from the storm sewage overflows listed in column 1 of the Schedule to this consent, into the receiving waters listed in column 2 thereof (" the proposed discharges").

(b) those applications are deemed by virtue of paragraph 25(2) (a) of Schedule 26 to the Water Act 1989 to have been made by the THAMES WATER UTILITIES LIMITED ("the Company") to the National Rivers Authority ("the Authority").

(c) the Secretary of State for the Environment, in exercise of his powers under paragraph 25(4) (c) of Schedule 26 to the Water Act 1989, has directed the Authority to issue the following consent for the proposed discharges.

NOW THEREFORE the Authority hereby grants a temporary consent to the proposed discharges subject to the following condition:

Where equipment for the separation of solids is provided, this equipment shall be maintained in good operating condition.

This consent shall continue to have effect in relation to each application until the Authority's determination on that application becomes final:

(i) on the expiration, without the bringing of an appeal against the determination, of the prescribed period for the bringing of such an appeal; or

(ii) on the withdrawal or determination of any such appeal.

Signed on behalf of the Authority ...21st. Sept.... 1989

GODALMING STW

Inlet Works

Screens and Detritors

Screened waste packaging/removal

Storm Tanks

Primary Settlement Tanks

Old Filter Beds

New Filter Beds

Old Final Settlement Tanks (Humus Tanks)

New Final Settlement Tanks (Humus Tanks)

Sludge Holding Tanks

Sludge Press House

Pump House (recirc.)

Compressed Sludge collection area

Final Effluent Chamber and Pump House (recirculation)

Press House Liquor return chamber (adjacent to Final Effluent Chamber shown above)

Tertiary Treatment Lagoon (adjacent to empty second lagoon used as back-up)

Weir/Discharge Point from lagoon to Land Treatment Area

Land Treatment Area

Godalming STW No. 1 outlet to R. Wey
(Direct discharge from Final Effluent Chamber)

Godalming STW No. 2 outfall. No. 3 outfall below but submerged. Discharge from land drain serving land Treatment Area.