

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



ENVIRONMENT
AGENCY

Part A

To:

Yorkshire Water Services Ltd
2 The Embankment
Sovereign Street
Leeds
West Yorkshire
LS1 4BG

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent

WRA 6924

Nature of Discharge(s);

at

KNOSTROP

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor. To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To:

ENVIRONMENT AGENCY

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent:

Name:

Yorkshire Water Services Ltd

Address:

2 The Embankment
Sovereign Street
Leeds
West Yorkshire
LS1 4BG

I/We hereby serve notice on the Agency that I/we am/are no longer a/the Holder of the above consent which will be/was transferred to:

* delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s);

Signed:..... **Dated:**

Name (block capitals):..... **Position:**

Variation of Consent to Discharge

Water Resources Act 1991
Section 88, Schedule 10
(as amended by the
Environment Act 1995)



Notice of Variation of Consent to Discharge

Consent Number WRA6924

To:

YORKSHIRE WATER SERVICES LIMITED

WESTERN HOUSE, HALIFAX ROAD, BRADFORD, BD6 2SZ

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of several discharges of **SEWAGE EFFLUENT** on 16th July 1993 which was subsequently reviewed on 14th February 1996, modified on 27th February 1998, varied 11th May 2000, modified on 30th November 2000, 14th October 2002, 18th March 2005 and 6th January 2006

From: **Leeds (Knostrop) Waste Water Treatment Works**

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that Consent WRA6924 is varied as follows:

- A. **For the period 22nd October 2007 up to and including 17th February 2008** substitution of condition 5 in Schedule 2 by the following condition:
5. The capacity of the storm tank(s) shall be at least 16,374 cubic metres.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991 (as amended by Schedule 22 of the Environment Act 1995), no notice shall be served by the Agency, which alters the variations made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this variation is served.

This Variation is issued on _____ and takes effect on the 22nd October 2007

Signed

A rectangular box containing a handwritten signature in black ink, which appears to be "P. Baker".

**PETER BAKER, TEAM LEADER, REGULATORY WATER QUALITY
on behalf of the Environment Agency, North East Region**

NOTE: All other conditions of this consent remain unaltered and in force. This variation should be attached to the Schedule of Consent

Environment Agency, Phoenix House, Global Avenue, Leeds, LS11 8PG

Consent Number WRA6924

Page 1 of 1

**ENVIRONMENT AGENCY
WATER RESOURCES ACT 1991
(as amended by the Environment Act 1995)
SECTION 88 - SCHEDULE 10**

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

To: Yorkshire Water Services Limited
Western House
Halifax Road
Bradford
BD6 2SZ

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of several discharges of sewage effluent on the 16th July 1993, subsequently reviewed on 14th February 1996, modified on 27th February 1998, varied on 11th May 2000, modified on 30th November 2000, 14th October 2002 and 18th March 2005.

From: **KNOSTROP WASTE WATER TREATMENT WORKS**

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that Schedule 1 Conditions 10 iii), v), vi), vii), viii), ix), xi), xii), xiii), xiv), xv) are deleted.

NOTICE IS FURTHER GIVEN that Schedule 1 is varied to include the following conditions 14 – 18 and the attached Annex 4;

Condition 14 of Schedule 1

14. Any spot sample of the discharge shall not contain more than:

- i) 11 micrograms per litre of Nonyl Phenol
- ii) 5 micrograms per litre of total Silver

Condition 15 of Schedule 1

THE DANGEROUS SUBSTANCES LIST I CONDITION

15. a) The quantity of List I Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above:
- i) the levels specifically regulated by condition 10 i), ii), iv)
 - ii) levels in the Discharge on the date of effect of this consent where no specific level is authorised;

- b) notwithstanding (a) above, the concentration of List 1 Substances in the Discharge shall not exceed the concentrations specified in "List I General Standards" in Annex 4.

Condition 16 of Schedule 1

THE DANGEROUS SUBSTANCES LIST II CONDITION

- 16. a) The quantity of List II substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
 - i) the levels specifically regulated by condition 10 x).
 - ii) the levels in the Discharge on the date of effect of this consent where no specific level is authorised: and
- b) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

Condition 17 of Schedule 1

OPERATIONAL SURVEILLANCE CONDITION

- 17. a) The Consent Holder shall maintain records that demonstrate to the satisfaction of the Agency,
 - i) knowledge and understanding by the Consent Holder of the composition of materials supplied to them and of any changes in formulation of process inputs to the collecting, sewerage and/or treatment system;
 - ii) any changes in process that may result in a change in the Dangerous Substances composition of the effluent discharge.
- b) The records kept in accordance with paragraph a) above shall be made available to the Agency on request.

Condition 18 of Schedule 1

INVESTIGATE AND MONITOR CONDITION

- 18. If the Agency is of the opinion that the dangerous substances in the discharge have changed significantly or that a significant change is likely then at the request of the Agency, the Consent Holder shall undertake any necessary investigations and provide an assessment of the source and quantity of specified List I and List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) within the discharge.

Subject to the provisions of Paragraph 7 and 8 of Schedule 10 of the Water Resources Act 1991 (as amended by Schedule 22 of the Environment Act 1995), no notice shall be served by the Agency, which alters the variations made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

Signed



Dated

6th January 2006.

Peter Baker, Team Leader – Regulatory Water Quality

NOTE

All other conditions of the consent remain in force.

Annex 4 – List 1 General Standards

	Substance	Limit Total Concentration (ug/l)
1	Aldrin	0.02
2	Dieldrin	0.02
3	Endrin	0.01
4	Isodrin	0.01
5	Carbon tetrachloride	24.0
6	DDT (all isomers)	0.05
7	Para-pare-DDT	0.02
8	Hexachlorobenzene	0.06
9	Hexachlorobutadiene	0.2
10	Hexachlorocyclohexane	0.2
11	Pentachlorophenol	4.0
12	Trichlorobenzene	0.8
13	1,2-Dichloroethane	20.0
14	Trichloroethylene	20.0
15	Tetrachloroethylene	20.0

CONSENT NO.	WRA6924
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WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: YORKSHIRE WATER SERVICES LIMITED
WESTERN HOUSE
HALIFAX ROAD
BRADFORD
BD6 2SZ

WHEREAS the **ENVIRONMENT AGENCY** in pursuance of its powers under Schedule 10 to the Water Resources Act 1991 (as amended by the Environment Act 1995) granted on 16th July 1993 and subsequently reviewed on 14th February 1996, modified on 27th February 1998, varied on 11th May 2000, Modified on 30th November 2000 and 14th October 2002 Consent No. **WRA 6924** permitting the discharge of **TREATED SEWAGE EFFLUENT, SETTLED STORM SEWAGE, STORM SEWAGE and SEWAGE IN AN EMERGENCY:**

FROM: Leeds (Knothrop) Waste Water Treatment Works

AT: Knowsthorpe Lane, Leeds;

TO: Wyke Beck and the River Aire

NOTICE IS HEREBY given by the **ENVIRONMENT AGENCY** that, following the publication of the Secretary of State's agreed National Environment Programme, and in pursuance of its powers under the paragraph 7(2) of Schedule 10 to the Water Resources Act 1991 (as amended by the Environment Act 1995), the said Consent is **MODIFIED** as follows:

From 31st March 2010:

Substitution of condition 9.a) i) , in Schedule 1 by the following new condition:

9.a) i) 18 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20° C with nitrification suppressed by the addition of allyl-thiourea).

Substitution of condition 9.a) iii) , in Schedule 1 by the following new condition:

9.a) iii) 3 milligrams per litre of ammoniacal nitrogen (expressed as N).

Substitution of condition 11. i) , in Schedule 1 by the following new condition:

11. i) 54 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20° C with nitrification suppressed by the addition of allyl-thiourea).

Substitution of condition 11. ii) , in Schedule 1 by the following new condition:

11. ii) 12 milligrams per litre of ammoniacal nitrogen (expressed as N).

Substitution of condition 6. a) , in Schedule 2 by the following new condition:

6.a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.

Substitution of condition 5. a) , in Schedule 3 by the following new condition:

5.a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.

Substitution of condition 6. a), in Schedule 5 by the following new condition:

6.a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.

Substitution of condition 5. a), in Schedule 7 by the following new condition:

5.a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 to the Water Resources Act 1991 (as amended by the Environment Act 1995), no notice shall be served by the Agency, which alters the effect of modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

This modification is served on

18 MAR 2005

Signed 

PETER BAKER –TEAM LEADER REGULATOR WATER QUALITY
ON BEHALF OF THE ENVIRONMENT AGENCY NORTH EAST REGION

NOTE. All other conditions of this consent remain unaltered and in force. This notice of modification should be attached to the Schedule of Consent WRA 6924

ENVIRONMENT AGENCY

WATER RESOURCES ACT 1991

(as amended by the Environment Act 1995)

SECTION 88 - SCHEDULE 10

NOTICE OF VARIATION OF CONSENT TO DISCHARGE

To: YORKSHIRE WATER SERVICES LIMITED
Western House
Halifax Road
Bradford
BD6 2SZ

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of a several discharges of **SEWAGE EFFLUENT** on 16th July 1993 and subsequently reviewed on 14th February 1996 modified on 27th February 1998 varied on 11th May 2000 and modified on 30th November 2000

From: KNOTROP WASTE WATER TREATMENT WORKS

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that Condition 4 of Schedule 2 and Condition 4 of Schedule 5 in Consent WRA6924 are varied as follows:

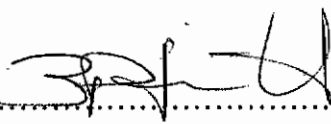
Condition 4 Schedule 2 (Settled Storm Sewage – High Level Works)

4. **From the date of issue of this notice up to and including 31st December 2002 only**
The Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate of flow at the storm sewage separating weir is in excess of 2488 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.

Condition 4 Schedule 5 (Settled Storm Sewage – Low Level Works)

4. **From the date of issue of this notice up to and including 31st December 2002 only**
The Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate of flow at the storm sewage separating weir is in excess of 2431 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991(as amended by Schedule 22 of the Environment Act 1995), no notice shall be served by the Agency, which alters the variations made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

Signed..........dated.....14/10/02.....

Simon Firth, Team Leader – Environment Management

NOTE

All other conditions remain in force. Please update Schedules 2 and 5 of your consent accordingly

Consent No: WRA6924

ENVIRONMENT AGENCY
WATER RESOURCES ACT 1991
(as amended by the Environment Act 1995)

COPY

SECTION 88 - SCHEDULE 10

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

To: Yorkshire Water Services Ltd
2 The Embankment
Sovereign Street
Leeds
West Yorkshire
LS1 4BG

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of several discharges of **SEWAGE EFFLUENT** on 11th May 2000

From: LEEDS (KNOSTROP) WASTE WATER TREATMENT WORKS

NOTICE IS GIVEN that condition 9 (a) (iv) of Schedule 1 specified in the above consent is hereby deleted.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991 (as amended by Schedule 22 of the Environment Act 1995), no notice shall be served by the Agency, which alters the modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

Signed..........dated 30th November 2000

Peter Baker, Team Leader - Water Quality Consents

NOTE

All other conditions of the consent remain in force. Please update Schedule 1 of Consent WRA6924 accordingly.

WATER RESOURCES ACT 1991
(as amended by the Environment Act 1995)
SECTION 88 - SCHEDULE 10

VARIATION OF CONSENT TO DISCHARGE

To: Yorkshire Water Services Limited
2 The Embankment
Sovereign Street
Leeds
West Yorkshire
LS1 4BG

The **ENVIRONMENT AGENCY** in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **HEREBY CONSENTS** to the making of a discharge of **SEWAGE EFFLUENT**, as follows:

Treated Sewage Effluent, Settled Storm Sewage, Storm Sewage, & Sewage in an Emergency

From: Leeds (Knostrop) Waste Water Treatment Works

At: Knowsthorpe Lane
Leeds

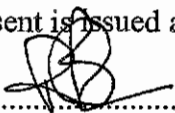
To: Wyke Beck and the River Aire

SUBJECT TO the conditions set out in the following schedules:

- Schedule 1 – Treated Sewage Effluent
- Schedule 2 – Settled Storm Sewage (High Level Works)
- Schedule 3 – Storm Sewage (High Level Works)
- Schedule 4 – Sewage in an Emergency (High Level Works inlet pumping station)
- Schedule 5 – Settled Storm Sewage (Low Level Works)
- Schedule 6 – Sewage in an Emergency (Low Level Second Lift Pumping Station)
- Schedule 7 – Storm Sewage (Low Level Works)
- Schedule 8 – Sewage in an Emergency (Low Level Works inlet Pumping Station)
- Schedule 9 – Urban Waste Water Treatment

Subject to the provisions of Paragraphs 6 and 7 of Schedule 10 of the Water Resources Act 1991, (as amended by the Environment Act 1995) no notice shall be served by the Agency, altering this consent without the agreement in writing of the Consent Holder, during a period of 4 years from the date this consent takes effect or such later date as may be specified in an endorsement to this document.

This consent is issued and takes effect on the 11 day of MAY 2000

Signed 
Pete Baker, Team Leader – Water Quality Consents

CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Treated Sewage Effluent ("the Discharge")
From: Knostrop (Leeds) Waste Water Treatment Works
To: Wyke Beck
NGR: SE 3465 3071

CONDITIONS 1-13

1.
 - a) The works shall be operated and effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the discharge made from the works on controlled waters.
 - b) This condition does not require;
 - i) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by conditions 9, 10 and 11 than is required by those conditions;
 - ii) any alteration of the works or a change in the type of treatment used.
2.
 - a) A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
 - b) A discharge of trade effluent into the works is new if -
 - i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before (date of issue); or
 - ii) it is made by a third party and the discharge is authorised on or after that date.
 - c) A discharge of trade effluent into the works is altered if-
 - i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after (date of issue); or
 - ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.

- d) An increase in the polluting effects of the discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the discharge which is specifically regulated by conditions 9, 10 and 11 of this consent but may be significant if it is caused by a change in some other characteristic of the discharge.
- e) For the purposes of this condition "trade effluent" means-
- i) any discharge by the sewerage undertaker other than;
 - 1) domestic sewage from premises connected directly or indirectly to the works; or
 - 2) surface water run-off;
 - ii) any discharge by a third party which authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.
3. a) A discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.
- b) A discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it or conditions subject to which there is an obligation to receive it are not observed.
- c) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under section 87 of the Water Resources Act 1991.
4. The Discharge shall consist solely of treated sewage effluent
5. The Discharge shall be made via an outlet at National Grid Reference SE 3465 3071 into the Wyke Beck.
6. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3417 3099, as shown marked "final effluent sample point" on plan A/C 1581/A2054, attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.

7. The Dry Weather Flow of the Discharge shall not exceed 213,600 cubic metres per day.

For the purpose of this condition, Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

8. a) Flow measurement structure(s) shall be provided and maintained to enable the daily volume and instantaneous flow rate of the Discharge to be measured or determined as required.
- b) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided and maintained to enable the daily volume and instantaneous flow of the Discharge to be recorded.
- c) Copies of the readings shall be maintained by the Consent Holder and kept available for inspection by the Agency.
- d) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The Consent Holder shall keep a record of the calibration results available for inspection by the Agency.
9. a) Subject to paragraph (b) below, the Discharge shall not contain more than;
- From 11 May 2000 to 30 June 2000**
- i) 40 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea).
- ii) 70 milligrams per litre of suspended solids (measured after drying at 105°C).
- iii) 15 milligrams per litre of ammoniacal nitrogen (expressed as N).
- iv) 250 milligrams per litre of chemical oxygen demand.
- From 1 July 2000**
- i) 30 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea)
- ii) 50 milligrams per litre of suspended solids (measured after drying at 105°C)
- iii) 8 milligrams per litre of ammoniacal nitrogen (expressed as N).
- iv) 250 milligrams per litre of chemical oxygen demand.
- b) The limit for any of the relevant parameters set out in paragraph (a) above may be exceeded where, in any series of samples of the Discharge taken at regular but

randomised intervals in any period of twelve consecutive months as listed in Column 1 of the table at Annex 1 to this consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

10. The Discharge shall not contain more than:-

- i) 0.5 micrograms per litre of total Mercury
- ii) 1.2 micrograms per litre of total Cadmium
- iii) 0.3 micrograms per litre of total Hexachlorocyclohexane (HCH)
- iv) 10 micrograms per litre of Chloroform
- v) 50 micrograms per litre of total Lead
- vi) 90 micrograms per litre of total Chromium
- vii) 10 micrograms per litre of total Arsenic
- viii) 1700 micrograms per litre of total Boron
- ix) 10 micrograms per litre of total Vanadium
- x) 49 micrograms per litre of total Copper
- xi) 174 micrograms per litre of total Zinc
- xii) 90 micrograms per litre of total Nickel
- xiii) 11 micrograms per litre of 2-Methyl-4-chlorophenoxyacetic acid (MCPA)
- xiv) 0.2 micrograms per litre of Permethrin
- xv) 0.17 micrograms per litre of Diazinon

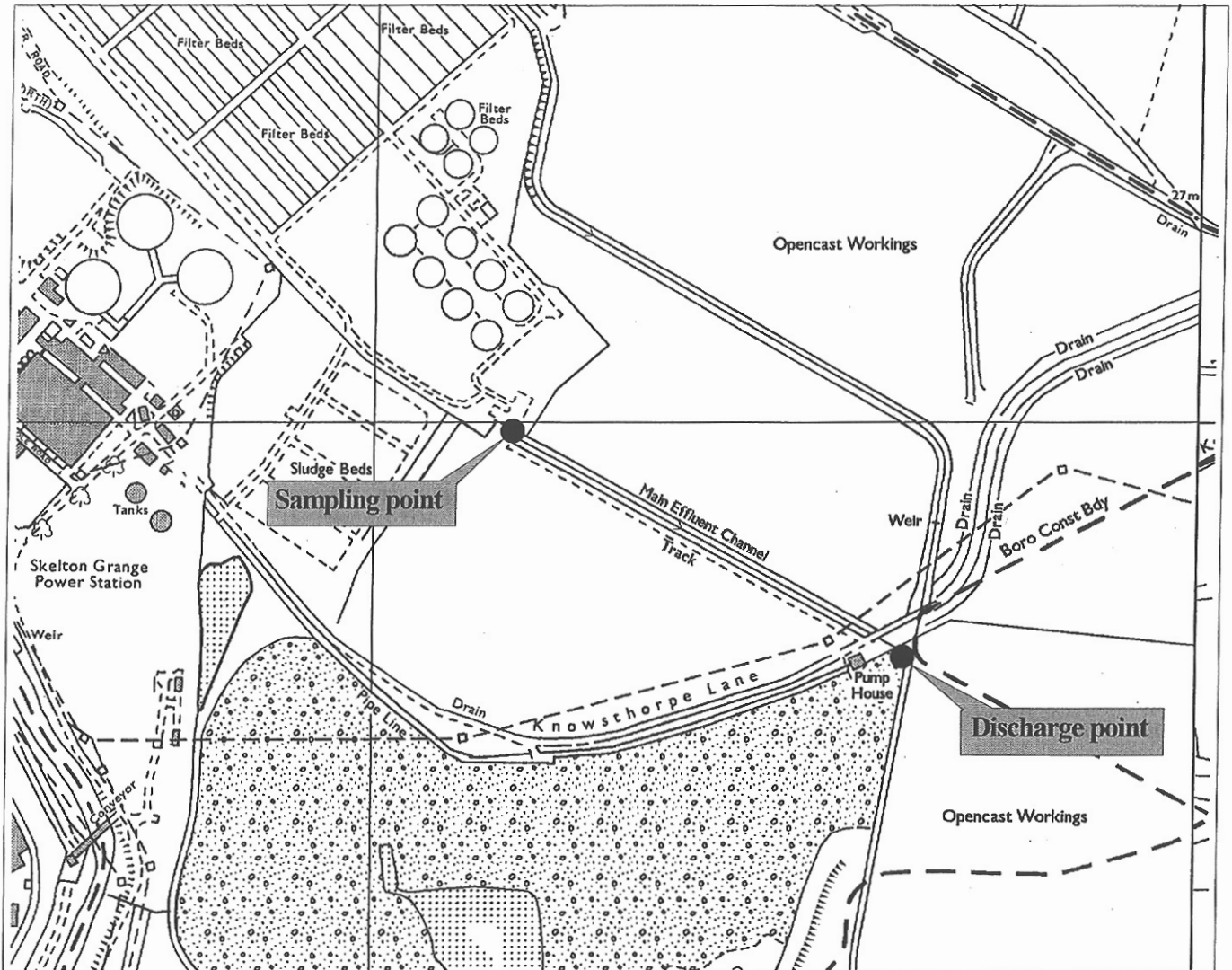
11. **From 1 July 2000**, the Discharge shall not contain more than:-

- i) 64 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea).
- ii) 30 milligrams per litre of ammoniacal nitrogen (expressed as N)

12. a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not conditions contained in paragraphs 1, 9 and 10 of

this consent have been complied with.

- b) For the purpose of this condition "unusual weather conditions" shall include:-
- i) low ambient temperatures as evidenced by effluent temperatures of 5°C or less, or by the freezing of mechanical equipment in the works;
 - ii) significant snow deposits;
 - iii) tidal or fluvial flooding;
 - iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.
- c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the Consent Holder shall use its best endeavours to mitigate that adverse affect.
- d) For a sample of the discharge to be considered for the purposes of (a) above, the Consent Holder shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.
13. The Consent Holder shall notify the Agency in writing if any known planned introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 2 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.



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LOCATION OF: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: TREATED SEWAGE EFFLUENT
NATIONAL GRID REFERENCE: SE 3465 3071

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Settled Storm Sewage – High Level Works (“the Discharge”)

From: Knostrop (Leeds) Waste Water Treatment Works

To: Wyke Beck

NGR: SE 3384 3186

CONDITIONS 1 - 7

1. The Discharge shall consist solely of settled storm sewage.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3384 3186 to the Wyke Beck.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3385 3185, as shown marked “High Level settled storm effluent and emergency sample point” on plan A/C1581/A2054, attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tanks shall only occur when the rate or flow at the storm overflow weir at the High Level Works is in excess of 2663 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tank(s) shall be at least 21,832 cubic metres.
6.
 - a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 15 millimetres in one dimension.
 - b) The screening device shall be maintained in an efficient operational condition.
 - c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.

7. a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.



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LOCATION OF: Klostrop WWTW, Knowsthorpe Lane, Leeds
DISCHARGE OF: Settled Storm Sewage
NATIONAL GRID REFERENCE: SE 3384 3186

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Storm Sewage – High Level Works (“the Discharge”)

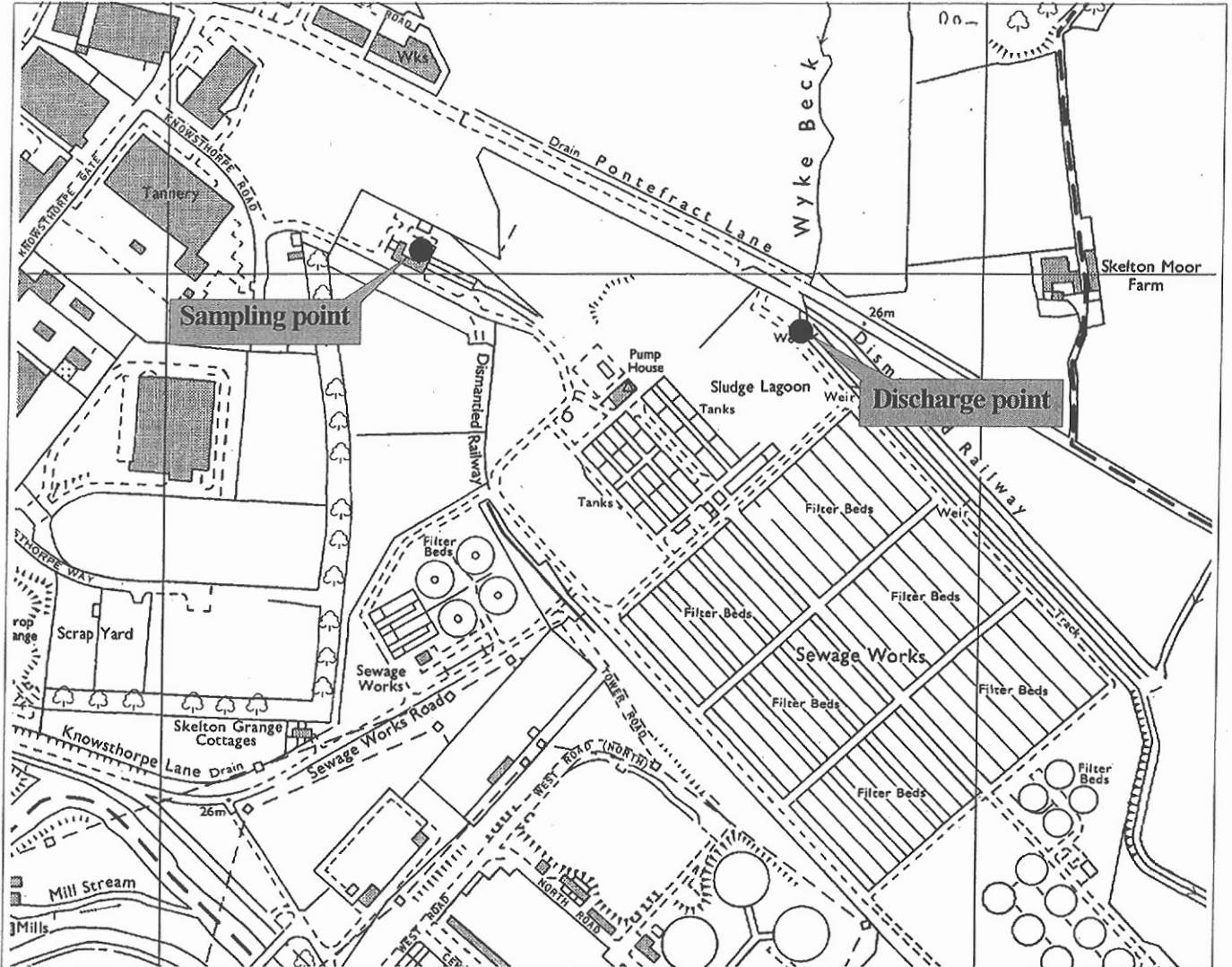
From: Knostrop (Leeds) Waste Water Treatment Works

To: Wyke Beck

NGR: SE 3378 3193

CONDITIONS 1 - 6

1. The Discharge shall consist solely of storm sewage.
2. The Discharge shall be made via an outlet at National Grid Reference SE 3378 3193 to the Wyke Beck.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3331 3203, as shown marked “High Level storm sewage sample point” on plan A/C1581/A2054, attached as annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The discharge shall only occur when the rate of flow in the sewer at the storm overflow weir is in excess of 6520 litres per second due to rainfall and/or snow melt.
5.
 - a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 20 millimetres in one dimension.
 - b) The screening device shall be maintained in an efficient operational condition.
 - c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.
6. The overflow shall be maintained in an efficient operational condition.



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LOCATION OF: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: STORM SEWAGE
NATIONAL GRID REFERENCE: SE 3378 3193

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Settled Sewage in an Emergency – High Level Works Inlet Pumping Station (“the Discharge”)

From: Knostrop (Leeds) Waste Water Treatment Works

To: Wyke Beck

NGR: SE 3384 3186

CONDITIONS 1 - 10

1. The Discharge shall consist solely of settled sewage in an emergency.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3384 3186 to the Wyke Beck.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3385 3185, as shown marked “High Level settled storm and emergency sewage sample point” on plan A/C1581/A2054, attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The discharge shall only occur when the High Level Works inlet Pumping Station is inoperative as a result of one or more of the following:
 - a) electrical power failure not due to the act or default of the Consent Holder, or its agents, representatives, officers, employees or servants;
 - b) mechanical breakdown of duty and standby pumps;
 - c) rising main failure;
 - d) blockage of the downstream sewer not due to the act or default of the Consent Holder, its agents, representatives, officers, employees or servants;

and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent Holder in remedying any such failure or breakdown.

5. The Discharge shall occur when and only for as long as, the storm tanks are full. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
6.
 - a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of failure or breakdown of the High Level Works Inlet Pumping Station.
 - b) The Consent Holder shall take all reasonable remedial measures to return the pumping station(s) to normal operation, as soon as practicable after receipt of warning of failure or breakdown of the pumping station(s).
 - c) The Consent Holder shall notify the Agency, as soon as practicable, where there is potential for operation of the emergency overflow in the event of failure or breakdown of the pumping station.
7. The duty pump(s) shall be maintained in good working order, and a least one stand-by pump shall be provided and maintained.
8. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.
9. A duplicate electricity supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
10.
 - a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
 - b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.



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LOCATION OF: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: SETTLED SEWAGE IN AN EMERGENCY
NATIONAL GRID REFERENCE: SE 3384 3186

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Settled Storm Sewage – Low Level Works (“the Discharge”)

From: Knostrop (Leeds) Waste Water Treatment Works

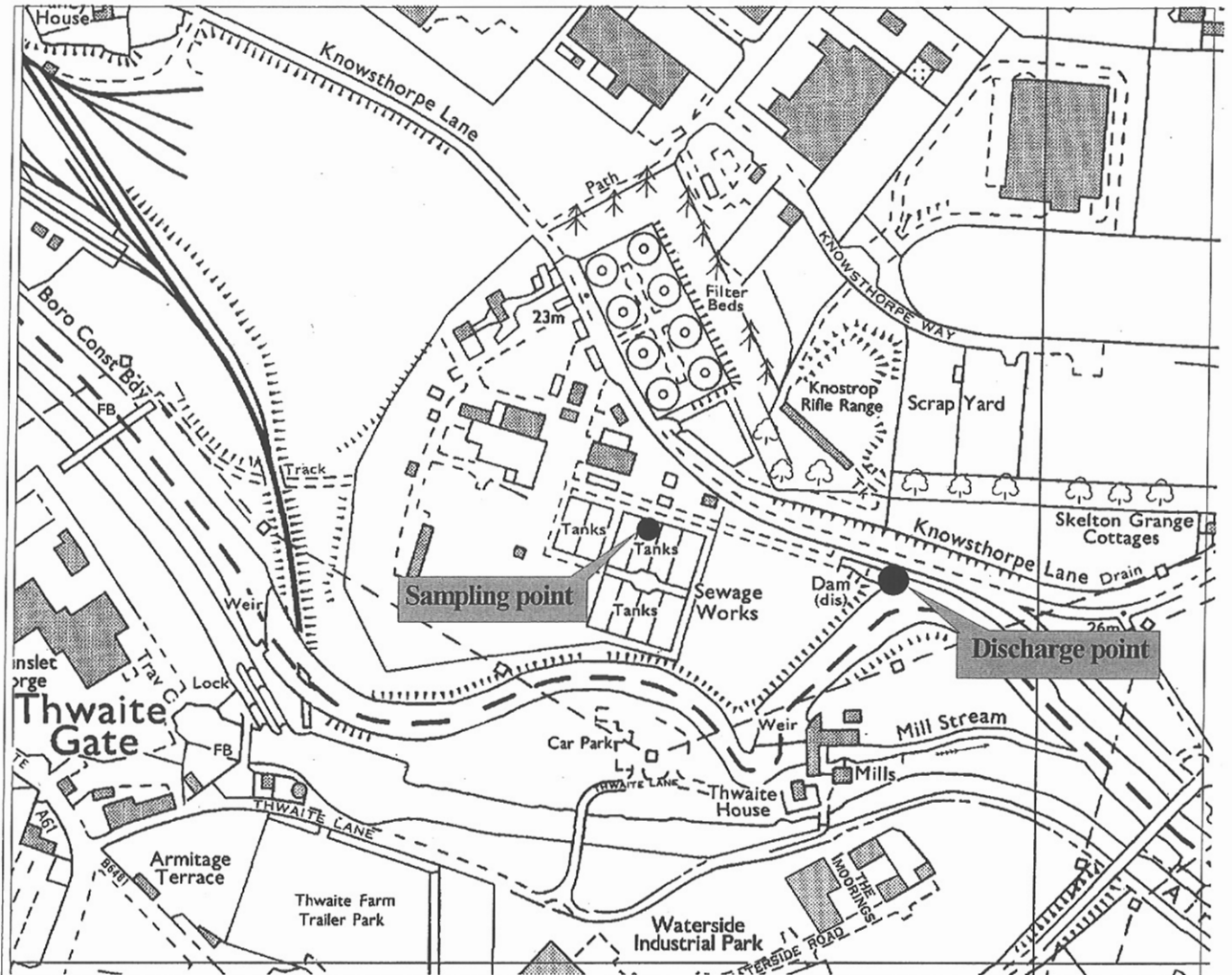
To: River Aire

NGR: SE 3286 3138

CONDITIONS 1 - 7

1. The Discharge shall consist solely of settled storm sewage.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3286 3138 into the River Aire.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3262 3143 as shown marked "Low Level Works Settled Storm Sample Point" on plan A/C1581/A2054 attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The Discharge shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tanks shall only occur when the rate of flow at the storm sewage separating weir is in excess of 2620 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tank(s) shall be at least 15,354 cubic metres.
6.
 - a) The discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 15mm in one dimension.
 - b) The screening device shall be maintained in an efficient operational condition.
 - c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.

7.
 - a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
 - b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.



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LOCATION OF: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: SETTLED STORM SEWAGE
NATIONAL GRID REFERENCE: SE 3286 3138

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Primary Treated Sewage in an Emergency – Low Level Works Second Lift Pumping Station (“the Discharge”)

From: Knostrop (Leeds) Waste Water Treatment Works

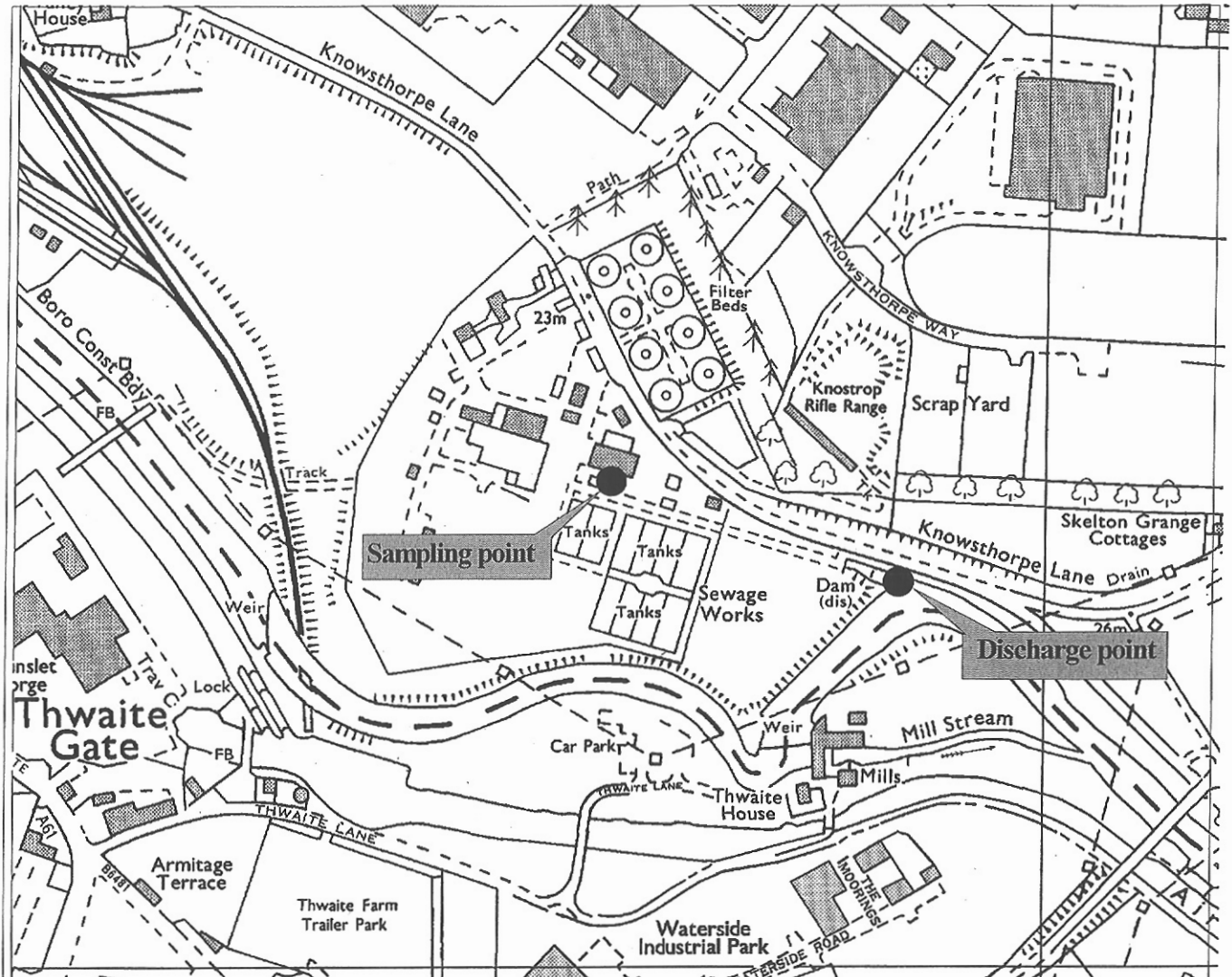
To: River Aire

NGR: SE 3286 3138

CONDITIONS 1 - 9

1. The Discharge shall consist solely of settled sewage in an emergency.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3286 3138 to the River Aire.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3258 3148, as shown marked “Low Level Second Lift Pumping Station emergency sewage sample point” on plan A/C1581/A2054, attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The discharge shall only occur when the Low Level Works Second Lift Pumping Station is inoperative as a result of one or more of the following:
 - a) electrical power failure not due to the act or default of the Consent Holder, or its agents, representatives, officers, employees or servants;
 - b) mechanical breakdown of duty and standby pumps;
 - c) rising main failure;
 - d) blockage of the downstream sewer not due to the act or default of the Consent Holder, its agents, representatives, officers, employees or servants;and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent Holder in remedying any such failure or breakdown.
5. a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of failure or breakdown of the High Level Works Inlet Pumping Station.

- b) The Consent Holder shall take all reasonable remedial measures to return the pumping station(s) to normal operation, as soon as practicable after receipt of warning of failure or breakdown of the pumping station(s).
 - c) The Consent Holder shall notify the Agency, as soon as practicable, where there is potential for operation of the emergency overflow in the event of failure or breakdown of the pumping station.
6. The duty pump(s) shall be maintained in good working order, and a least one stand-by pump shall be provided and maintained.
7. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.
8. A duplicate electricity supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
9. a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
- b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.



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LOCATION OF: KLOSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: PRIMARY TREATED SEWAGE IN AN EMERGENCY
NATIONAL GRID REFERENCE: SE 3286 3138

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Storm Sewage – Low Level Works (“the Discharge”)

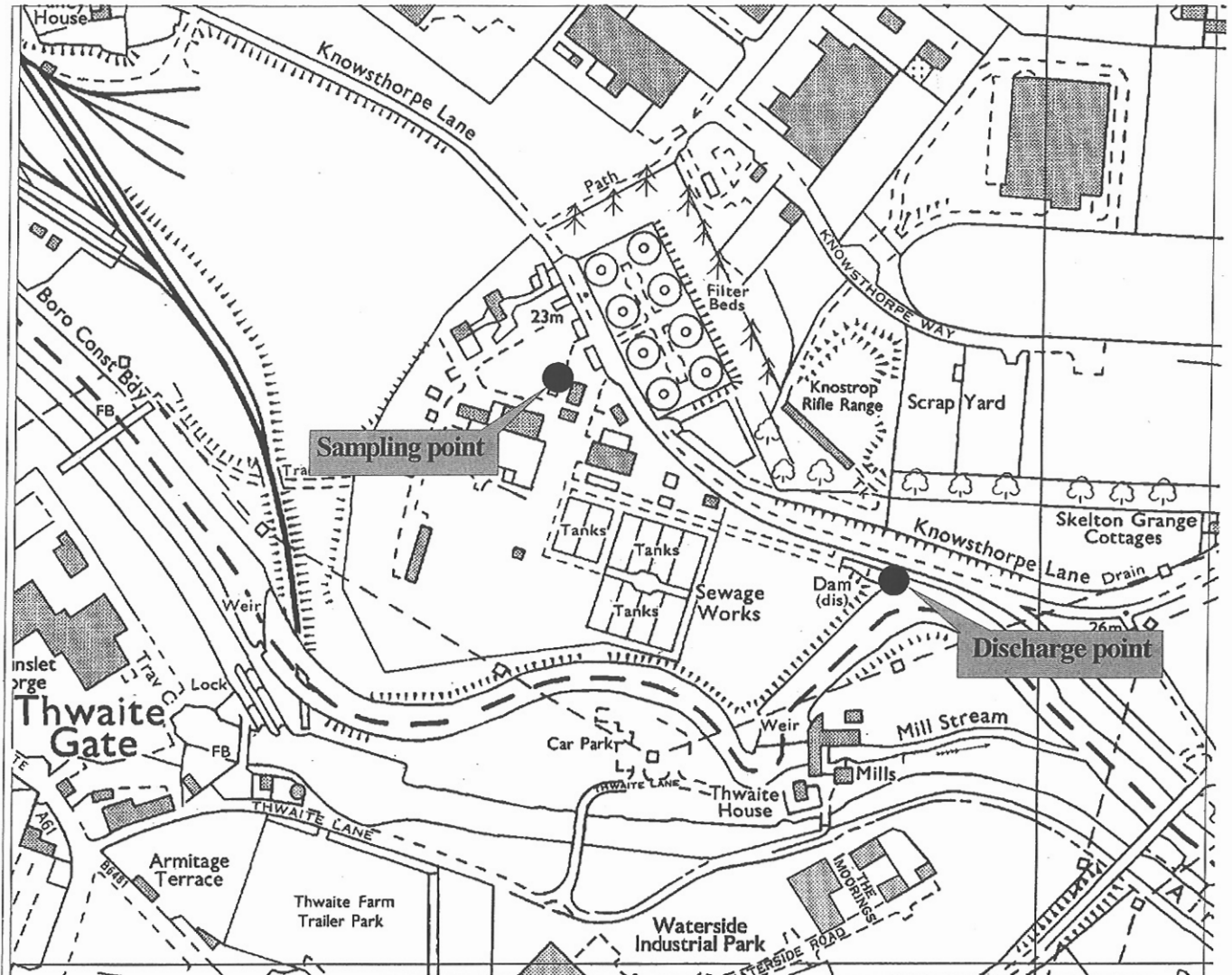
From: Knostrop (Leeds) Waste Water Treatment Works

To: River Aire

NGR: SE 3286 3138

CONDITIONS 1 - 6

1. The Discharge shall consist solely of storm sewage.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3286 3138 to the River Aire.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3253 3158 as shown marked "Low Level Works Storm Sampling Point" on plan A/C1581/A2054 attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The discharge shall only occur when the rate of flow in the sewer at the storm overflow weir is in excess of 5312 litres per second due to rainfall and/or snow melt.
5.
 - a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 20 millimetres in one dimension.
 - b) The screening device shall be maintained in an efficient operational condition.
 - c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.
6. The overflow shall be maintained in an efficient operational condition.



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LOCATION OF: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: STORM SEWAGE
NATIONAL GRID REFERENCE: SE 3286 3138

CONDITIONS OF CONSENT TO DISCHARGE

Nature of Effluent: Sewage in an Emergency – Low Level Works (“the Discharge”)

From: Knostrop (Leeds) Waste Water Treatment Works

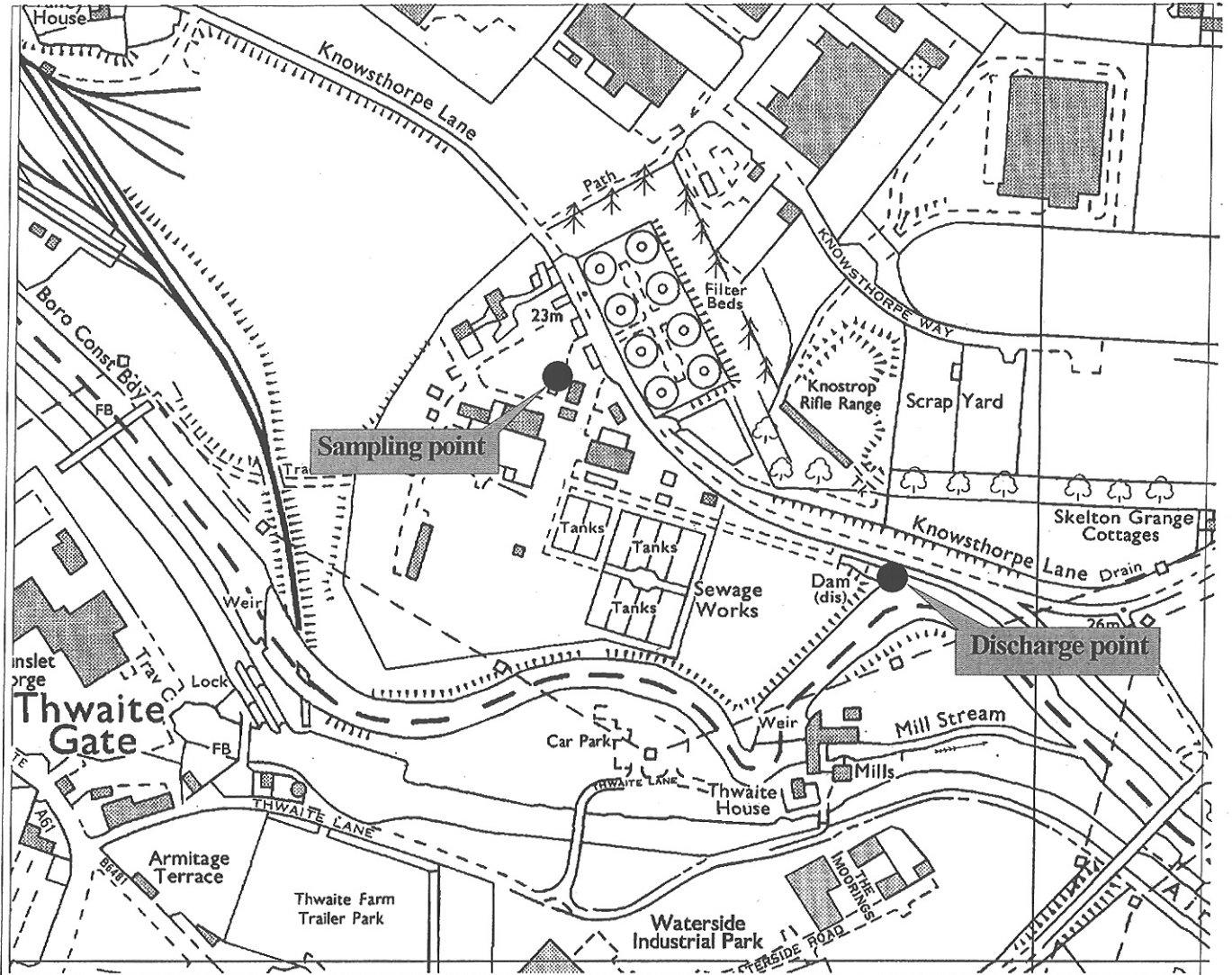
To: River Aire

NGR: SE 3286 3138

CONDITIONS 1 - 10

1. The Discharge shall consist solely of sewage in an emergency.
2. The Discharge shall be made via a combined outlet at National Grid Reference SE 3286 3138 into the River Aire.
3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SE 3253 3158 as shown marked "Low Level Works Storm and Emergency Sampling Point" on plan A/C1581/A2054 attached as Annex 3, so that a representative sample of the Discharge may be obtained. The Consent Holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
4. The discharge shall only occur when the works inlet pumping station is inoperative as a result of one or more of the following:
 - a) electrical power failure not due to the act or default of the Consent Holder, or its agents, representatives, officers, employees or servants;
 - b) mechanical breakdown of duty and standby pumps;
 - c) rising main failure;
 - d) blockage of the downstream sewer not due to the act or default of the consent holder, its agents, representatives, officers employees or servants;and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent Holder in remedying any such failure or breakdown.
5. a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of failure or breakdown of the inlet pumping station.

- b) The Consent Holder shall take all reasonable remedial measures to return the pumping station to normal operation, as soon as practicable after receipt of warning of failure or breakdown of the inlet pumping station.
 - c) The Consent Holder shall notify the Agency, as soon as practicable, where there is potential for operation of the emergency overflow in the event of failure or breakdown of the inlet pumping station.
6.
 - a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 20 millimetres in one dimension.
 - b) The screening device shall be maintained in an efficient operational condition.
 - c) All screenings must be removed and disposed of in a manner such as to prevent entry to the discharge.
7. The duty pump(s) shall be maintained in good working order, and a least one stand-by pump shall be provided and maintained.
8. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.
9. A duplicate electricity supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
10.
 - a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.
 - b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected effluent quality.



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LOCATION OF: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS
DISCHARGE OF: SEWAGE IN AN EMERGENCY
NATIONAL GRID REFERENCE: SE 3286 3138

UWWTD CONDITIONS OF CONSENT TO DISCHARGE

From: Knostrop (Leeds) Waste Water Treatment Works

To: River Aire

THE CONDITIONS IN THIS SCHEDULE WILL COME INTO FORCE ON THE 1 JANUARY 2001.

CONDITIONS

- U0**
- a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ("the Regulations").
 - b) For the purpose of condition U1 and U2 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.
- U1**
- a) The Discharge derives from an agglomeration with a population equivalent of more than 150,000 discharging to fresh waters.
 - b) The Consent Holder shall inform the Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform the Agency in writing of the actual population equivalent.
 - c) The Discharge shall be subject to Regulation 5(1) and shall satisfy the relevant requirements of Part I of Schedule 3.
- U2**
- a) The Consent Holder shall provide apparatus for the purpose of:
 - i) measuring or recording the volume, rate of flow, nature, composition or temperature,and
 - ii) collecting samples of any waste water, as is necessary to ensure compliance with paragraph (b) below.
 - b) The Consent Holder shall monitor the Discharge to verify compliance with the requirements of condition U1(c) above in accordance with control procedures as set out in Part II of Schedule 3.
 - c) The Consent Holder shall provide to the Agency any information collected in complying with paragraph (b) above in a manner agreed with the Agency.
- U3** Condition U2 above shall apply for the purpose of verifying compliance with the

Directive from the date as specified in the relevant paragraph of Regulation 5 as incorporated into this consent under condition U1(c) above.

- U4** Appropriately labelled sample points shall be provided and maintained at National Grid Reference SE 3255 3145, as shown marked "A - Low Level Works Crude sample point" on Plan A/C1581/A2054 attached as Annex 3, and at National Grid Reference SE 3340 3196, as shown marked "B - High Level Works Crude sample point" on Plan A/C1581/A2054 attached as Annex 3, so that representative samples of the influent may be obtained.

ANNEX 1

TABLE

Series of samples taken in any year	Maximum number of samples for given determinand permitted to exceed limit
4 - 7	1
8 - 16	2
17 - 28	3
29 - 40	4
41 - 53	5
54 - 67	6
68 - 81	7
82 - 95	8
96 - 110	9
111 - 125	10
126 - 140	11
141 - 155	12
156 - 171	13
172 - 187	14
188 - 203	15
204 - 219	16
220 - 235	17
236 - 251	18
252 - 268	19
269 - 284	20
285 - 300	21
301 - 317	22
318 - 334	23
335 - 350	24
351 - 365	25

ANNEX 2

- | | |
|--|------------------------------|
| 1. Mercury and its compounds | 2. Cadmium and its compounds |
| 3. Hexachlorocyclohexane
(lindane and related compounds) | 4. Carbon tetrachloride |
| 5. DDT (the isomers of 1,1,1-trichloro-2,2 bis{p-chlorophenyl} ethane) | |
| 6. Pentachlorophenol (PCP) | 7. Aldrin |
| 8. Dieldrin | 9. Endrin |
| 10. Isodrin | 11. Hexachlorobenzene (HCB) |
| 12. Hexachlorobutadiene (HCBd) | 13. Chloroform |
| 14. Polychlorinated biphenyls | 15. Dichlorvos |
| 16. 1,2-Dichloroethane | 17. Trichlorobenzene |
| 18. Atrazine | 19. Simazine |
| 20. Tributyltin compounds | 21. Triphenyltin compounds |
| 22. Trifluralin | 23. Fenitrothion |
| 24. Azinphos-methyl | 25. Malathion |
| 26. Endosulfan | 27. Lead |
| 28. Chromium | 29. Zinc |
| 30. Copper | 31. Nickel |
| 32. Arsenic | 33. *Iron |
| 34. *pH if outside the range 5.5 to 9.0 | 35. *Boron |
| 36. Vanadium | 37. PCSD'S |
| 38. Cyfluthrin | 39. Sulcofuron |
| 40. Flucofuron | 41. Permethrin |
| 42. 4-Chloro-3-methyl-phenol | 43. 2-Chlorophenol |
| 44. 2,4-Dichlorophenol | 45. 2,4-D (ester) |
| 46. 2,4-D (non ester) | 47. 1,1,1-Trichloroethane |
| 48. 1,1,2-Trichloroethane | 49. Bentazone |
| 50. Benzene | 51. Biphenyl |
| 52. Chloronitrotoluenes | 53. Demeton |
| 54. Dimethoate | 55. Linuron |
| 56. MCPA | 57. Mecoprop |
| 58. Mevinphos | 59. Napthalene |
| 60. Omethoate | 61. Toluene |
| 62. Trizaphos | 63. Xylene |
| 64. Cyanide | 65. Azinphos-ethyl |
| 66. Fenthion | 67. Parathion |
| 68. Parathion-methyl | 69. Trichloroethylene |
| 70. Tetrachloroethylene | 71. Dioxins |
| 72. PAHs | 73. Nonyl phenol |
| 74. Nonyl phenyl ethoxylate | 75. Di-ethylhexyl phthalate |
| 76. Bisphenol-A | 77. Diazinon |
| 78. Chlorfenvinphos | 79. Chlorotoluron |
| 80. Isoproturon | 81. Diuron |
| 82. Propetamphos | 83. Flumethrin |
| 84. Amitraz | 85. High-Cis Cypermethrin |
| 86. Cyromazine | 87. Deltamethrin |
| 88. Cypermethrin | |

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.

Consent No. WRA 6924

ENVIRONMENT AGENCY

WATER RESOURCES ACT 1991
(as amended by the Environment Act 1995)

SECTION 88 - SCHEDULE 10

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

COPY

To: Yorkshire Water Services Ltd
2 The Embankment
Sovereign Street
Leeds LS1 4 BG

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991(as amended by the Environment Act 1995) GRANTED CONSENTS to the making of a discharge of treated sewage effluent issued on the 14 February 1996.

From: Leeds (Knostrap) Sewage Treatment Works

NOTICE IS GIVEN that Schedule 1 condition 6 and Schedule 2 condition 6 specified in the above consent are here by modified to read as follows:

Schedule 1

Condition 6. The combined dry weather flow of the effluent discharged from outlets (A1) National Grid Reference SE 3465 3072 and (A2) National Grid Reference SE 3384 3185 shall not exceed 205, 000 cubic metres per day.

For the purpose of this condition dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres.

Schedule 2

Condition 6. The combined dry weather flow of the effluent discharged from outlets (A1) National Grid Reference SE 3465.3072 and (A2) National Grid Reference SE 3384 3185 shall not exceed 205, 000 cubic metres per day.

For the purpose of this condition dry weather flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays) following seven days during which the rainfall did not exceed 0.25 millimetres.

Subject to the provisions of Paragraph 6 and 7 of Schedule 10 of the Water Resources Act 1991(as amended by the Environment Act 1995), no notice shall be served by the Agency, which alters the modifications made by this notice, without the agreement in writing of the discharger, during a period of 4 years from the date this notice is served.

R Clarke

signed

R Clarke, Environment Planning

27th February 1998

dated

NOTE All other conditions of the consent remain in force. Please update schedules 1 & 2 accordingly.

Our File.

Consent No: WRA6924 Review No: 1

WATER RESOURCES ACT 1991

SECTION 88 - SCHEDULE 10

REVIEW NO. 1 OF CONSENT TO DISCHARGE

To: YORKSHIRE WATER SERVICE LTD
West Riding House
67 Albion Street
Leeds
LS1 5AA

COPY

The NATIONAL RIVERS AUTHORITY in pursuance of its powers under the Water Resources Act 1991 **HEREBY CONSENTS** to the making of a discharge, as follows:

Treated Sewage Effluent
Settled Storm Sewage
Storm Sewage and Emergency

From: LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS

At: Leeds

To: River Aire

SUBJECT TO the conditions set out in the following schedules:

Treated Sewage Effluent - Schedule 1
Treated Sewage Effluent - Schedule 2
Settled Storm Sewage and Emergency - Schedule 3
Settled Storm Sewage - Schedule 4
Storm Sewage and Emergency - Schedule 5
Storm Sewage and Emergency - Schedule 6

Subject to the provisions of Paragraphs 6 and 7 of Schedule 10 of the Water Resources Act 1991, no notice shall be served by the Authority, altering this consent without the agreement in writing of the discharger, during a period of 2 years from the date this consent takes effect or such later date as may be specified in an endorsement to this document.

This consent is issued and takes effect on the 1st day of February 1996.

Signed *G M Morris*

G M Morris, Water Resources and Quality Manager

CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Fully Treated Effluent

From: Humus Tanks, Leeds (Knothrop) Sewage Treatment Works

To: River Aire

NGR: SE 3465 3072

CONDITIONS 1 - 13

1. (a) The discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.

(b) Provided that the discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by those conditions.

2. The discharges shall be made via the common outlet at National Grid Reference SE 3465 3072 (indicated as outlet A1 on attached map) into Wyke Beck.

3. The discharge shall consist solely of fully treated sewage effluent.

4. (a) Subject to paragraph 4(b) below, no sample of the discharge shall contain more than:

(i) 40 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20 degrees Celsius with nitrification suppressed by the addition of allyl-thiourea);

(ii) 15 milligrams per litre of ammoniacal nitrogen (expressed as N);

(iii) 70 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).

(iv) 250 milligrams per litre of Chemical Oxygen Demand

(b) The limit for any of the relevant parameters set out in paragraph 4(a) may be exceeded where, in any series of samples of the discharge taken at regular but randomised

intervals in any period of twelve consecutive months, as listed in Column 1 of the table at Annex 1 to this Consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

5. The discharge shall not contain more than:
- (i) 1 microgram per litre of total mercury;
 - (ii) 5 micrograms per litre of total cadmium;
 - (iii) 0.3 micrograms per litre of hexachlorocyclohexane (HCH) (sum of alpha and gamma isomers)
 - (iv) 250 micrograms per litre of total copper
 - (v) 30 micrograms per litre of chloroform
 - (vi) 250 micrograms per litre of total chromium
 - (vii) 250 micrograms per litre of total nickel
 - (viii) 250 micrograms per litre of total zinc
 - (ix) 20 micrograms per litre of total vanadium
 - (x) 5 micrograms per litre of total pentachlorophenol
 - (xi) 2000 micrograms per litre of total boron
 - (xii) 50 micrograms per litre of lead
6. The combined volume of effluent discharged from outlets (A1) National Grid Reference SE 3465 3072 and (A2) National Grid Reference SE 3384 3185 shall not exceed 205,000 cubic metres per day.
7. A sample point at National Grid Reference SE 3459 3075 shall be constructed, maintained and appropriately labelled so that a representative sample of the fully treated sewage effluent discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the fully treated sewage effluent taken at the said sampling point is a sample of what was discharging into controlled waters.

8. Automatic sampling facilities to enable the taking of representative 24 hour flow proportional samples of the fully treated sewage effluent shall be provided and maintained by the discharger at the fully treated effluent sampling point. Such samples shall be kept for at least 48 hours and made available to the Authority on request.
9. Flow measurement structures shall be provided and maintained to enable the daily volume and instantaneous flow rate of the discharge to be measured or determined as required.
10. (a) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided and maintained to enable the daily volume and instantaneous flow of the treated sewage effluent to be recorded.

(b) Copies of the readings shall be maintained by the discharger and kept available for inspection by the Authority.

(c) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The discharger shall keep a record of the calibration results available for inspection by the Authority.
11. The discharger shall notify the Authority in writing if any known introduction or change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in Annex 2 to this notice as updated by the Authority from time to time, and notified to the discharger in writing), or any other substance considered by the discharger as having or likely to have a significant effect on the receiving waters.
12. As far as is reasonably practicable, the works shall be operated so as to prevent:
 - (a) any matter being present in the effluent, other than matter specifically covered by numerical conditions in this consent, to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and
 - (b) the treated effluent from having any other adverse environmental impact.
13. (a) No samples of sewage effluent taken at a time when Sections 87 (2) or 89 (1) of the Water Resources Act 1991 apply, and the operation of the sewage treatment works is consequently adversely affected, shall be taken into account in deciding whether or not the conditions contained in paragraph 4 of this consent have been complied

with.

(b) On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in 13(a), the discharger shall use its best endeavours to mitigate any adverse effect and shall notify the Authority by telephone as soon as practicable and confirm in writing within 14 days of the occurrence of such conditions. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works.

(c) No samples of sewage effluent taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions in paragraph 4 of this consent have been complied with.

For the purpose of this condition "unusual weather conditions" shall include:-

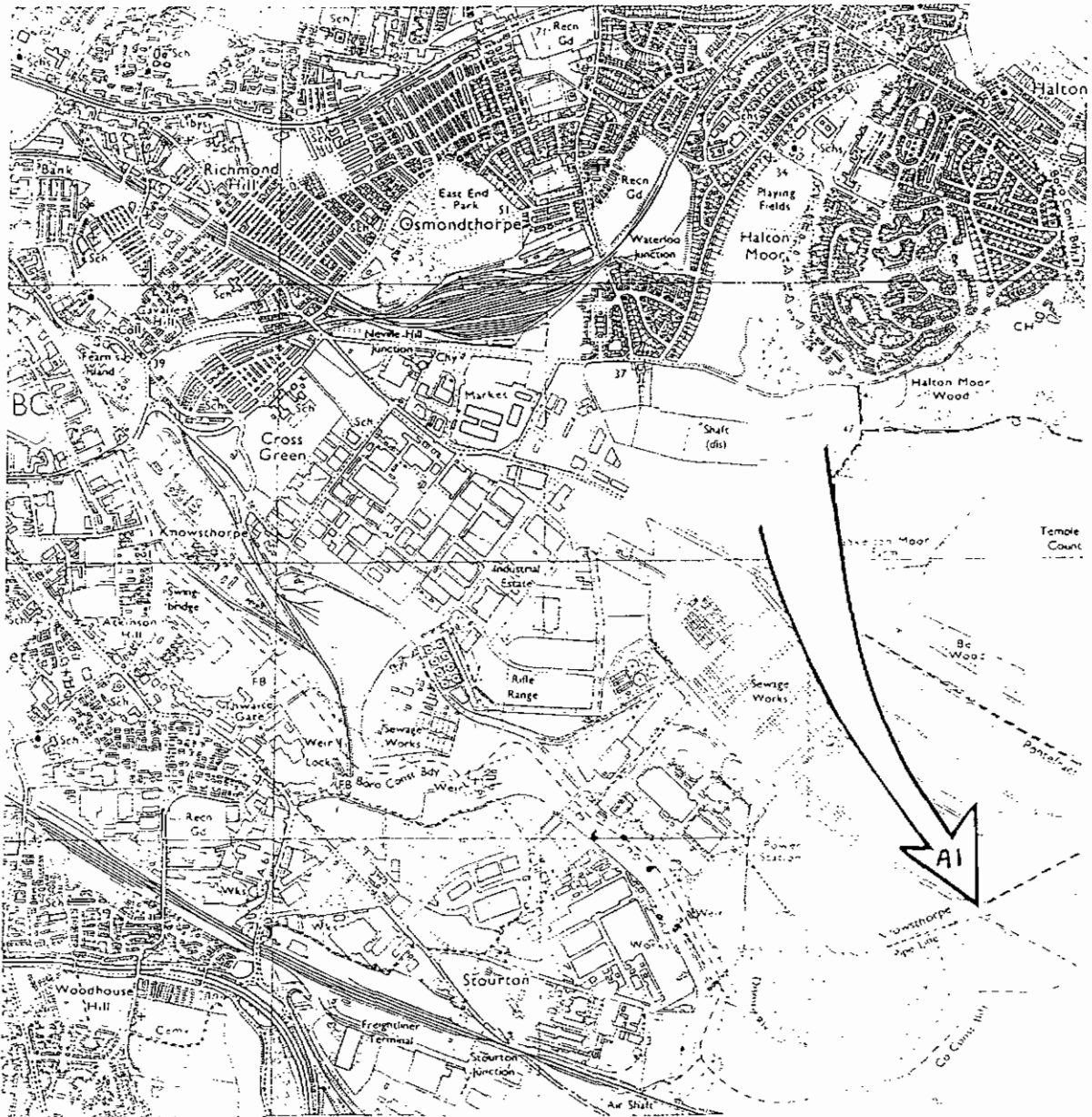
- (i) low ambient temperatures as evidenced by effluent temperatures of 5 degrees Celsius or less, or by the freezing of mechanical equipment in the works;
- (ii) significant snow deposits;
- (iii) tidal or fluvial flooding;
- (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

(d) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the discharger shall use its best endeavours to mitigate that adverse affect. The discharger shall notify the NRA by telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works..

(e) No sample of sewage effluent taken during a period specified in a variation of this consent under Chapter 2 of the Water Resources Act 1991, for reasons such as capital works construction or periods of industrial action, and when the operation of the sewage treatment works is adversely affected as a consequence of such activities, shall be taken into account in deciding whether or not the conditions contained in paragraph 4 of this consent have been complied with.

Consent No:WRA6924 Review No:1 Schedule No:1 Date issued: 14/2/96

(f) On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in 13(e), the discharger shall use its best endeavours to mitigate any adverse effect.

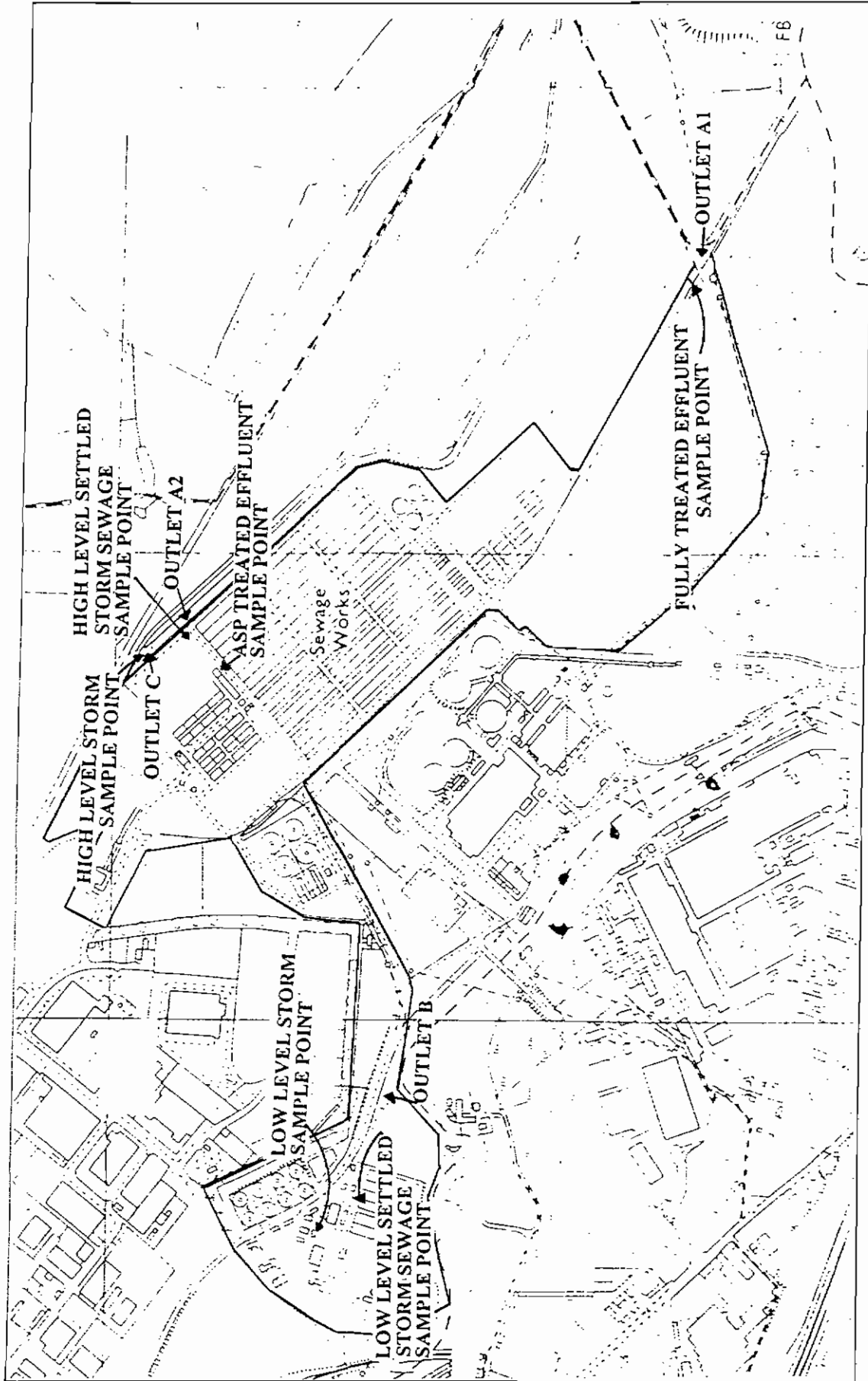


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS

SE 3465 3072

BASED UPON THE ORDNANCE SURVEY MAP
WITH SANCTION OF THE CONTROLLER
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LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS

BASED UPON THE ORDNANCE SURVEY MAP WITH
SANCTION OF THE CONTROLLER OF I.L.M.S.O. CROWN
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CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Fully Treated Sewage

From: Activated Sludge Plant, Leeds (Knostrop) Sewage Treatment Works

To: Wyke Beck

NGR: SE 3384 3185

CONDITIONS 1 - 14

1. (a) The discharge shall not contain any poisonous, noxious or polluting matter or solid waste matter.

(b) Provided that the discharge hereby consented is made in accordance with the following conditions of this consent, such discharge shall not be taken to be in breach of condition (a) above by reason of containing substances or having properties identified in and controlled by those conditions.
2. The discharge shall be made via the common outlet at National Grid Reference SE 3384 3185 (indicated as outlet A2 on the attached map) into Wyke Beck.
3. The discharge shall consist solely of fully treated sewage effluent.
4. (a) Subject to paragraph 4(b) below, no sample of the discharge shall contain more than:
 - (i) 40 milligrams per litre of biochemical oxygen demand (measured after 5 days at 20 degrees Celsius with nitrification suppressed by the addition of allyl-thiourea)
 - (ii) 30 milligrams per litre of ammoniacal nitrogen (expressed as N).
 - (iii) 70 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (iv) 250 milligrams of chemical oxygen demand.
(b) The limit for any of the relevant parameters set out in paragraph 4(a) may be exceeded where, in any series of samples of the discharge taken at regular but randomised

intervals in any period of twelve consecutive months, as listed in Column 1 of the table at Annex 1 to this Consent, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

5. The discharge shall not contain more than:
 - (i) 1 microgram per litre of total mercury
 - (ii) 5 micrograms per litre of total cadmium
 - (iii) 0.3 micrograms per litre of hexachlorocyclohexane (HCH) (sum of alpha and gamma isomers)
 - (iv) 150 micrograms per litre of total copper
 - (v) 30 micrograms per litre of chloroform
 - (vi) 50 micrograms per litre of total chromium
 - (vii) 220 micrograms per litre of total nickel
 - (viii) 300 micrograms per litre of total zinc
 - (ix) 20 micrograms per litre of total vanadium
 - (x) 5 micrograms per litre of total pentachlorophenol
 - (xi) 2000 micrograms per litre of total boron
 - (xii) 50 micrograms per litre of lead
6. The combined volume of effluent discharged from outlets (A1) National Grid Reference SE 3465 3072 and (A2) National Grid Reference SE 3384 3185 shall not exceed 205,000 cubic metres per day.
7. A sample point at National Grid Reference SE 3375 3177 shall be constructed, maintained and appropriately labelled so that a representative sample of the fully treated sewage effluent discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the fully treated sewage effluent taken at the said sampling point is a sample of what was discharging into controlled waters.

8. Automatic sampling facilities to enable the taking of representative 24 hour flow proportional samples of the treated sewage effluent shall be provided and maintained by the discharger at the fully treated sewage effluent sampling point. Such samples shall be kept for at least 48 hours and made available to the National Rivers Authority on request.
9. Flow measurement structures shall be provided and maintained to enable the daily volume and instantaneous flow rate of the discharge to be measured or determined as required.
10. (a) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided and maintained to enable the daily volume and instantaneous flow of the treated sewage effluent to be recorded.

(b) Copies of the readings shall be maintained by the discharger and kept available for inspection by the Authority.

(c) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The discharger shall keep a record of the calibration results available for inspection by the Authority.
11. The discharger shall notify the Authority in writing if any known introduction or change, in respect of discharges from trade premises to the sewerage system, occurs that may increase or introduce into the effluent any "dangerous substance" included on Lists I, II or Red List (set out in Annex 2 to this notice as updated by the Authority from time to time, and notified to the discharger in writing), or any other substance considered by the discharger as having or likely to have a significant effect on the receiving waters.
12. As far as is reasonably practicable, the works shall be operated so as to prevent:
 - (a) any matter being present in the effluent, other than matter specifically covered by numerical conditions in this consent, to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to fish in those waters, or to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters; and
 - (b) the treated effluent from having any other adverse environmental impact.
13. (a) No samples of sewage effluent taken at a time when Sections 87 (2) or 89 (1) of the Water Resources Act 1991 apply, and the operation of the sewage treatment works is consequently adversely affected, shall be taken into account in deciding whether or not the conditions contained in paragraph 4 of this consent have been complied with.

(b) On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in 13(a), the discharger shall use its best endeavours to mitigate any adverse effect and shall notify the Authority by telephone as soon as practicable and confirm in writing within 14 days of the occurrence of such conditions. That notification shall include a full description of the abnormal operating conditions and their impact on the operation of the works.

(c) No samples of sewage effluent taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions in paragraph 4 of this consent have been complied with.

For the purpose of this condition "unusual weather conditions" shall include:-

- (i) low ambient temperatures as evidenced by effluent temperatures of 5 degrees Celsius or less, or by the freezing of mechanical equipment in the works;
- (ii) significant snow deposits;
- (iii) tidal or fluvial flooding;
- (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.

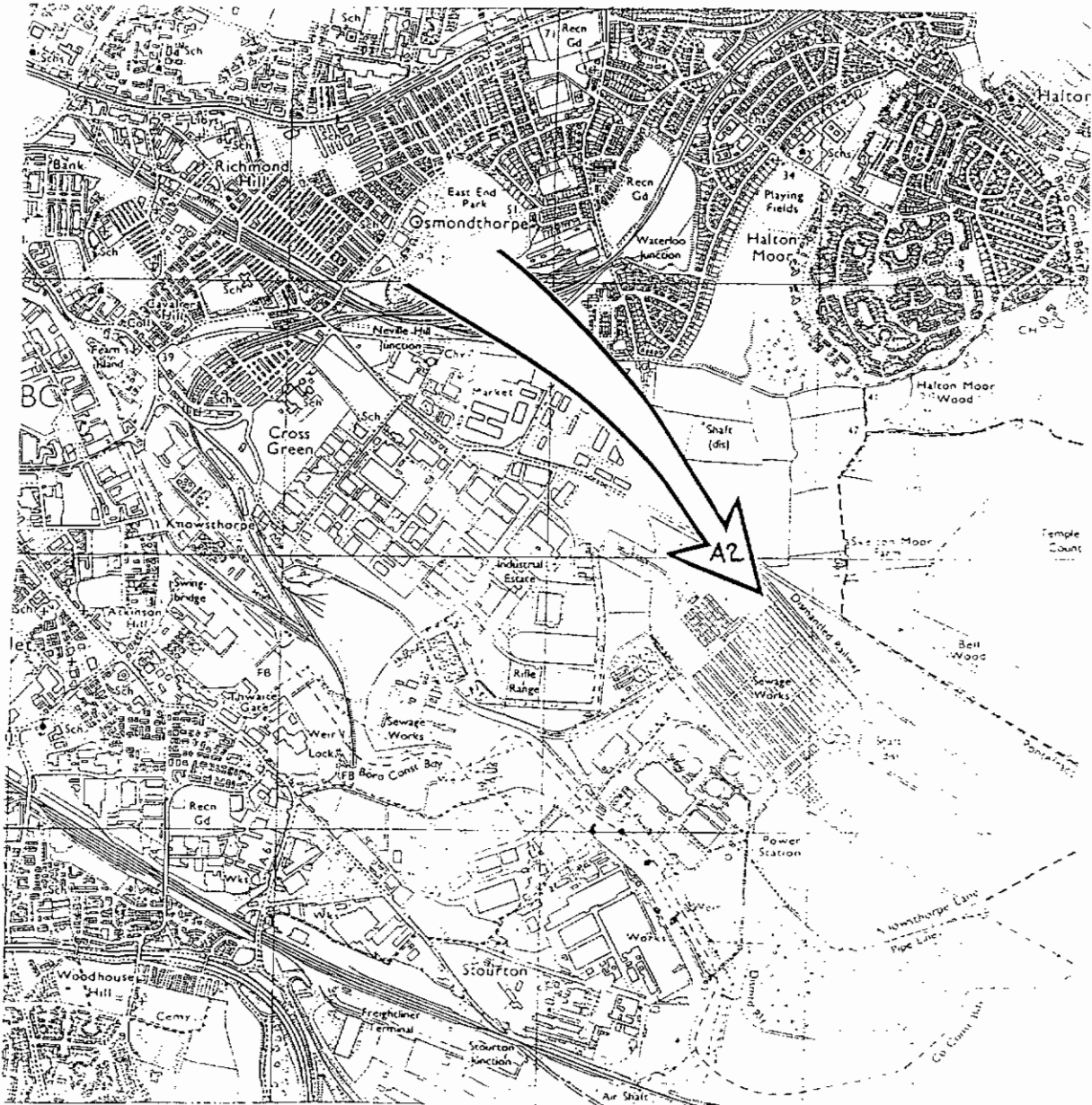
(d) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the discharger shall use its best endeavours to mitigate that adverse affect. The discharger shall notify the NRA by telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.

(e) No sample of sewage effluent taken during a period specified in a variation of this consent under Chapter 2 of the Water Resources Act 1991, for reasons such as capital works construction or periods of industrial action, and when the operation of the sewage treatment works is adversely affected as a consequence of such activities, shall be taken into account in deciding whether or not the conditions contained in paragraph 4 of this consent have been complied with.

(f) On each occasion that the sewage treatment works is not under normal operating conditions for the reasons in 13(e), the discharger shall use its best endeavours to mitigate

Consent No:WRA6924	Review No:1	Schedule No:2	Date issued. 14	2	96
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any adverse effect.

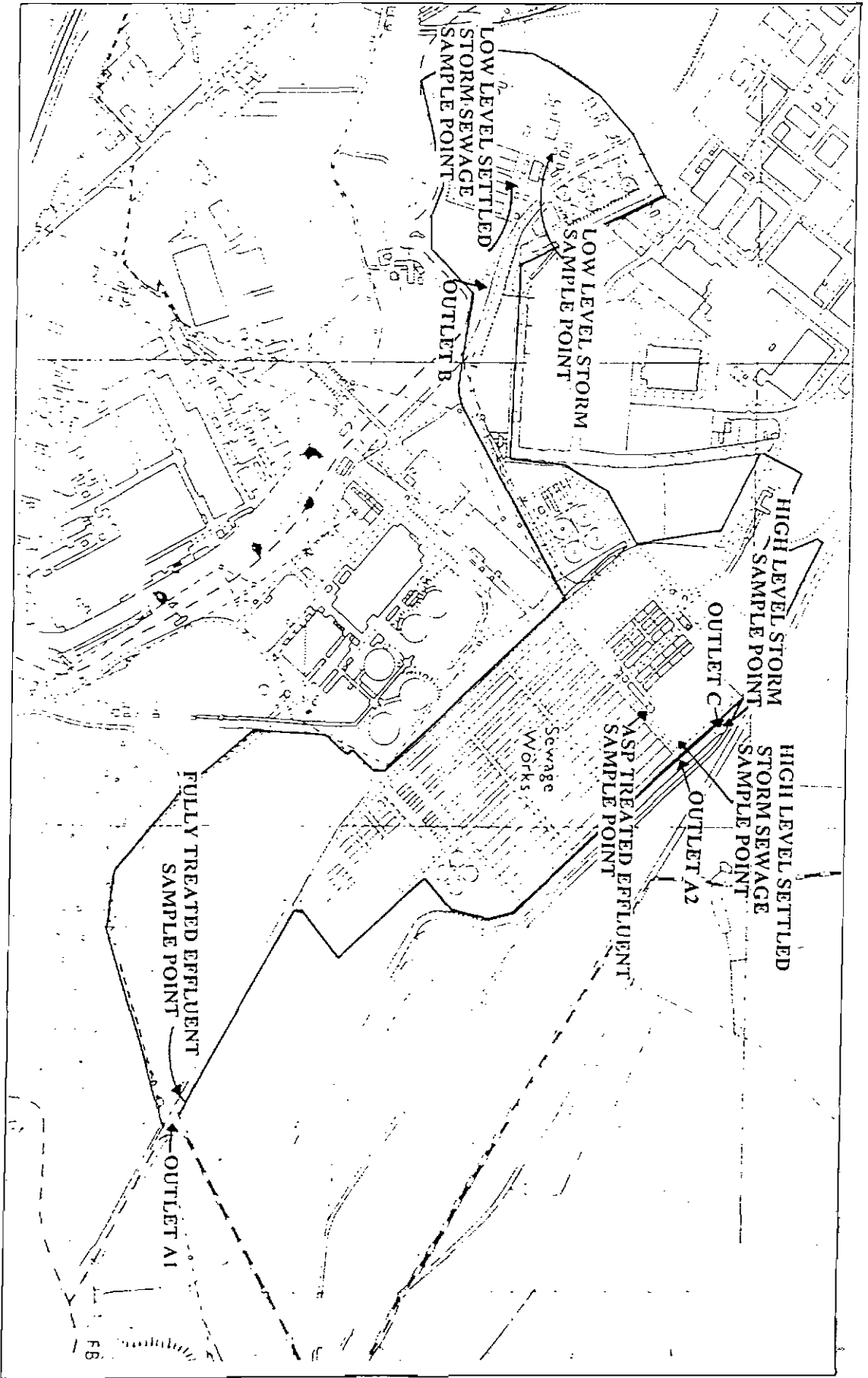


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS
SE 3384 3185

BASED UPON THE ORDNANCE SURVEY MAP
WITH SANCTION OF THE CONTROLLER
OF H.M.S.O. CROWN COPYRIGHT RESERVED
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LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS



BASED UPON THE ORDNANCE SURVEY MAP WITH
SANCTION OF THE CONTROLLER OF I.M.S.O. CROWN
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CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Settled Storm Sewage and Emergency
From: Low Level Works, Leeds (Knothrop) Sewage Treatment Works
To: River Aire
NGR: SE 3285 3137

CONDITIONS 1 - 14

1. The discharges shall be made via the common outlet at National Grid Reference SE 3285 3137 (indicated as outlet B on the attached map) into the River Aire.
2. The discharge shall consist solely of settled storm sewage, and/or settled sewage discharged in an emergency.
3. (a) The discharge of settled storm sewage shall not contain a significant quantity of solid matter having a size greater than 20 millimetres in one dimension.

(b) The discharge of settled storm sewage shall not be comminuted or macerated to achieve the standard in (a).
4. The discharge of shall only occur:

(a) when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate or flow at the storm overflow weir at the Low Level Works is in excess of 2431 litres per second due to rainfall and/or snow melt and shall consist only of flows in excess of this figure. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks; and/or

(b) in an emergency when the second lift pumping station is inoperative as a result of one or more of the following:
 - (i) electrical power failure not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps.

- (iii) rising main failure;
- (iv) blockage of the downstream sewer not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;

and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the discharger in remedying any such failure or breakdown.

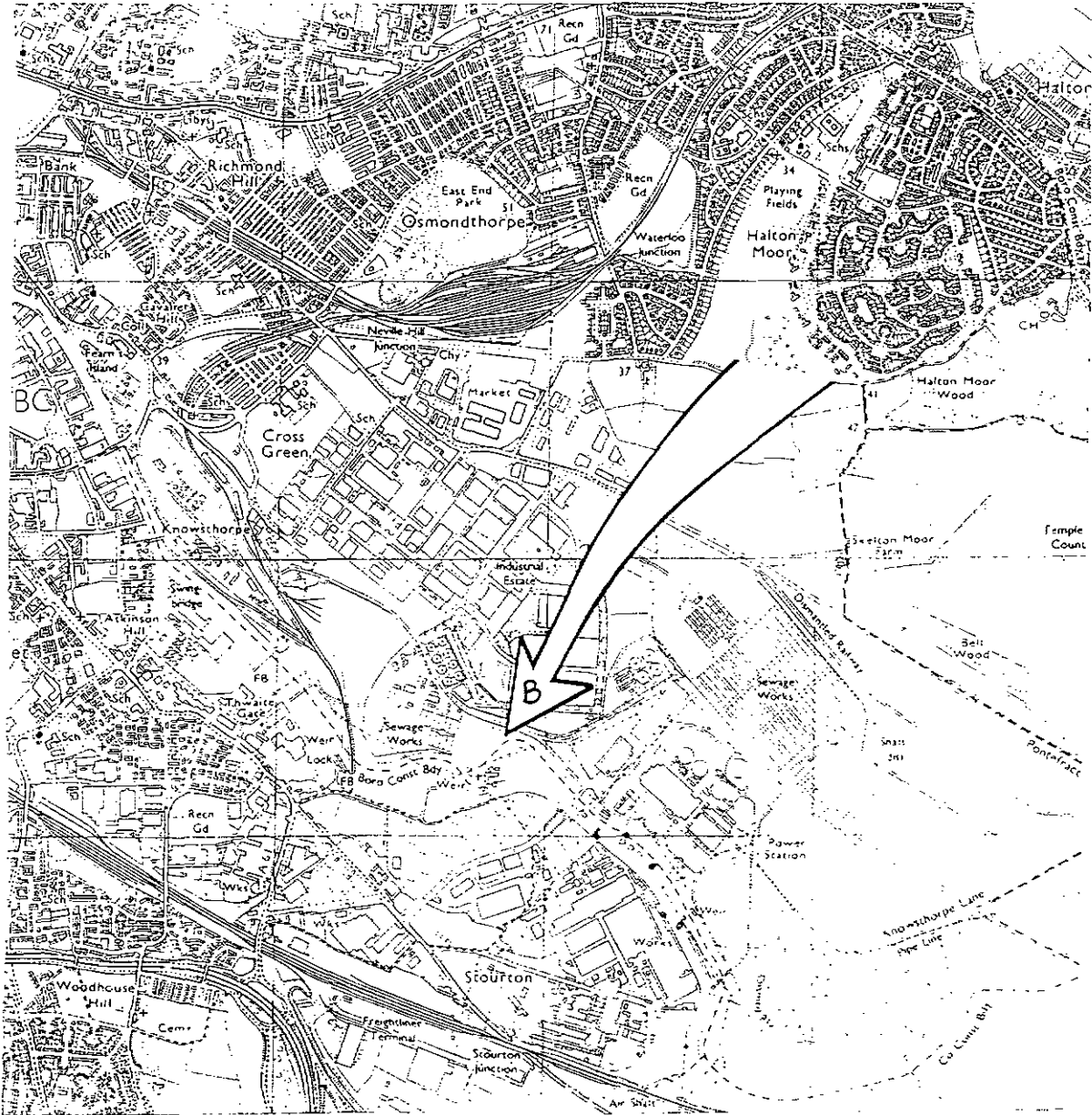
5. The capacity of the storm tank(s) shall be at least 18982 cubic metres.
6. Flow measurement structures shall be provided and maintained to enable the daily volume and instantaneous flow rate of the discharge to be measured or determined as required.
7. (a) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided by and maintained to enable the daily volume and instantaneous flow of the settled storm sewage effluent to be recorded.

(b) Copies of the readings shall be maintained by the discharger and kept available for inspection by the Authority.

(c) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The discharger shall keep a record of the calibration results available for inspection by the Authority.
8. A sample point at National Grid Reference SE 3262 3143 shall be constructed, maintained and appropriately labelled so that a representative sample of the settled storm sewage discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the settled storm sewage taken at the said sampling point is a sample of what was discharging into controlled waters.
9. The Authority shall be notified as soon as practicable and in any case by the following working day, that an emergency discharge under condition 4 (b) above has been or is being made.
10. Following installation of the failure/breakdown 24 hour response telemetry alarm system the discharger shall notify the Authority, as agreed in writing with the Authority, in the event of failure or breakdown of the pumping station, that there is potential for operation.

of the emergency overflow.

11. Following installation of the pumping station failure or breakdown telemetry system the discharger shall take all reasonable remedial measures, as soon as is practicable after receipt of warning of failure or breakdown of the pumping station, to return the pumping station to normal operation.
12. A duplicate electrical supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
13. The duty pump(s) shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained at all times.
14. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately the power is restored after interruption to the supply.

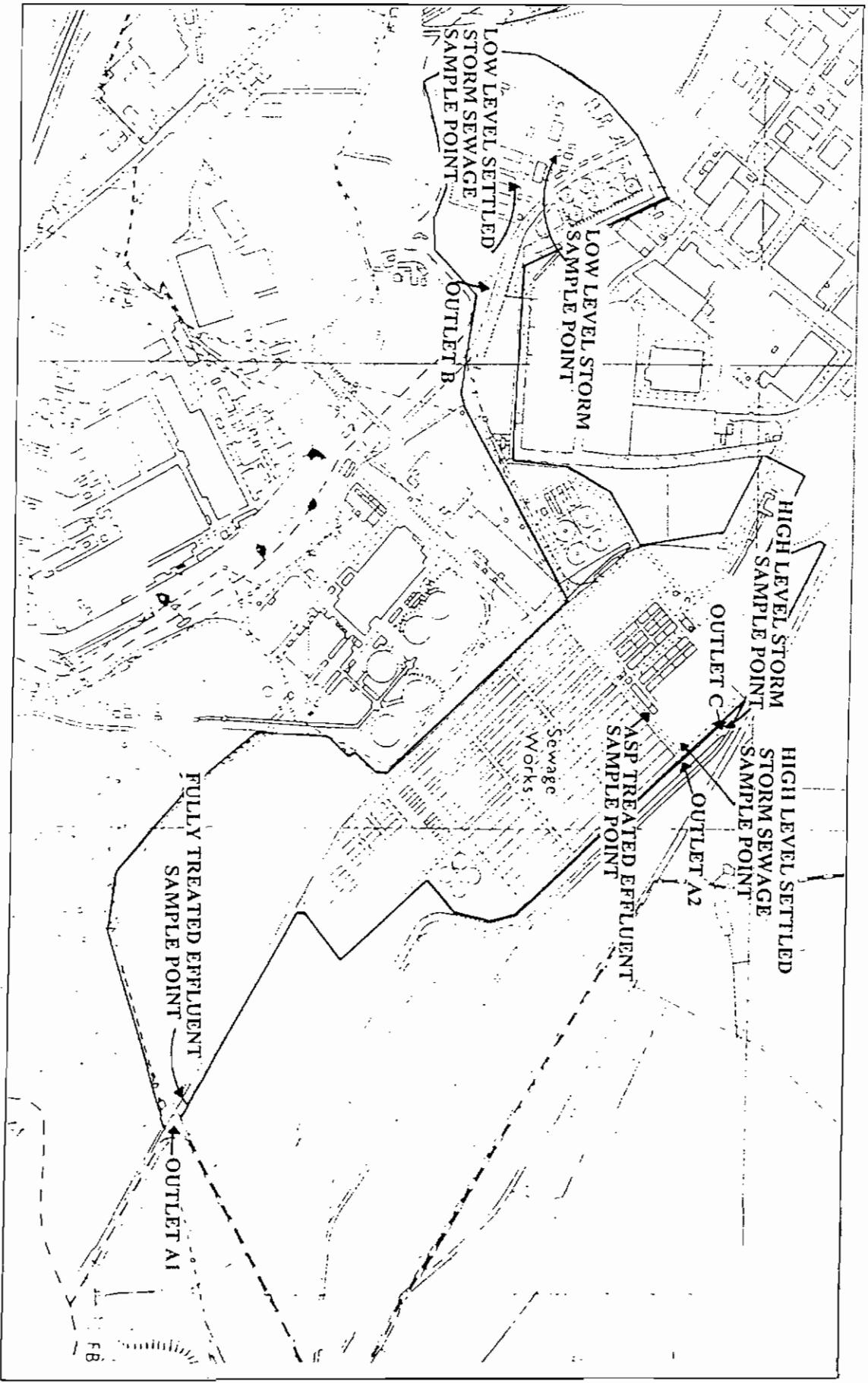


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS
SE 3285 3137

BASED UPON THE ORDNANCE SURVEY MAP
WITH SANCTION OF THE CONTROLLER
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LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS



BASED UPON THE ORDINANCE SURVEY MAP WITH
SANCTION OF THE CONTROLLER OF H.M.S.O. CROWN
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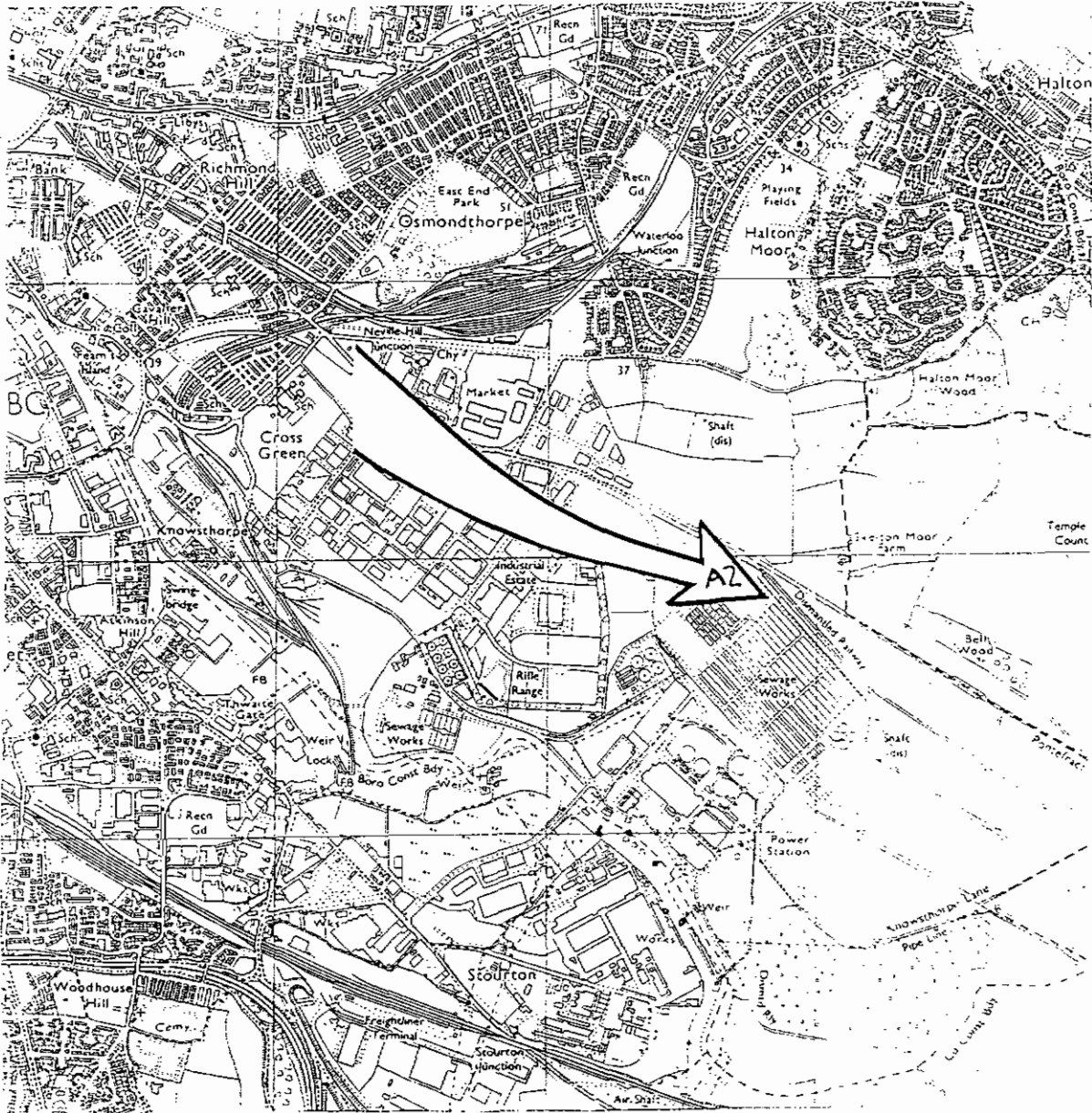
CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Settled Storm Sewage
From: High Level Works, Leeds (Knostrop) Sewage Treatment Works
To: Wyke Beck
NGR: SE 3384 3185

CONDITIONS 1 - 8

1. The discharges shall be made via the common outlet at National Grid Reference SE 3384 3185 (indicated as outlet A2 on the attached map) into Wyke Beck.
2. The discharge shall consist solely of settled storm sewage.
3. (a) The discharge of settled storm sewage shall not contain a significant quantity of solid matter having a size greater than 20 millimetres in one dimensions.
(b) The discharge of settled storm sewage shall not be comminuted or macerated to achieve the standard in (a).
4. The discharge of settled storm sewage shall occur when and only for as long as, the storm tanks are full. The discharge of storm sewage to the storm tank shall only occur when the rate or flow at the storm overflow weir at the High Level Works is in excess of 2488 litres per second due to rainfall and/or snow melt and shall consist only of flows in excess of this figure. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tank(s) shall be at least 24530 cubic metres.
6. Flow measurement structures shall be provided and maintained to enable the daily volume and instantaneous flow rate of the discharge to be measured or determined as required.
7. (a) In addition to the basic measurement structure, a continuous flow recorder, to an agreed specification, with on-site visual display from which readings can be readily obtained, shall be provided and maintained to enable the daily volume and instantaneous flow of the settled storm sewage effluent to be recorded.

- (b) Copies of the readings shall be maintained by the discharger and kept available for inspection by the Authority.
- (c) The recorder shall be calibrated and maintained on a regular basis to ensure that it is reading to an agreed standard. The discharger shall keep a record of the calibration results available for inspection by the Authority.
8. A sample point at National Grid Reference SE 3385 3185 shall be constructed, maintained and appropriately labelled so that a representative sample of the settled storm sewage discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the settled storm sewage taken at the said sampling point is a sample of what was discharging into controlled waters.

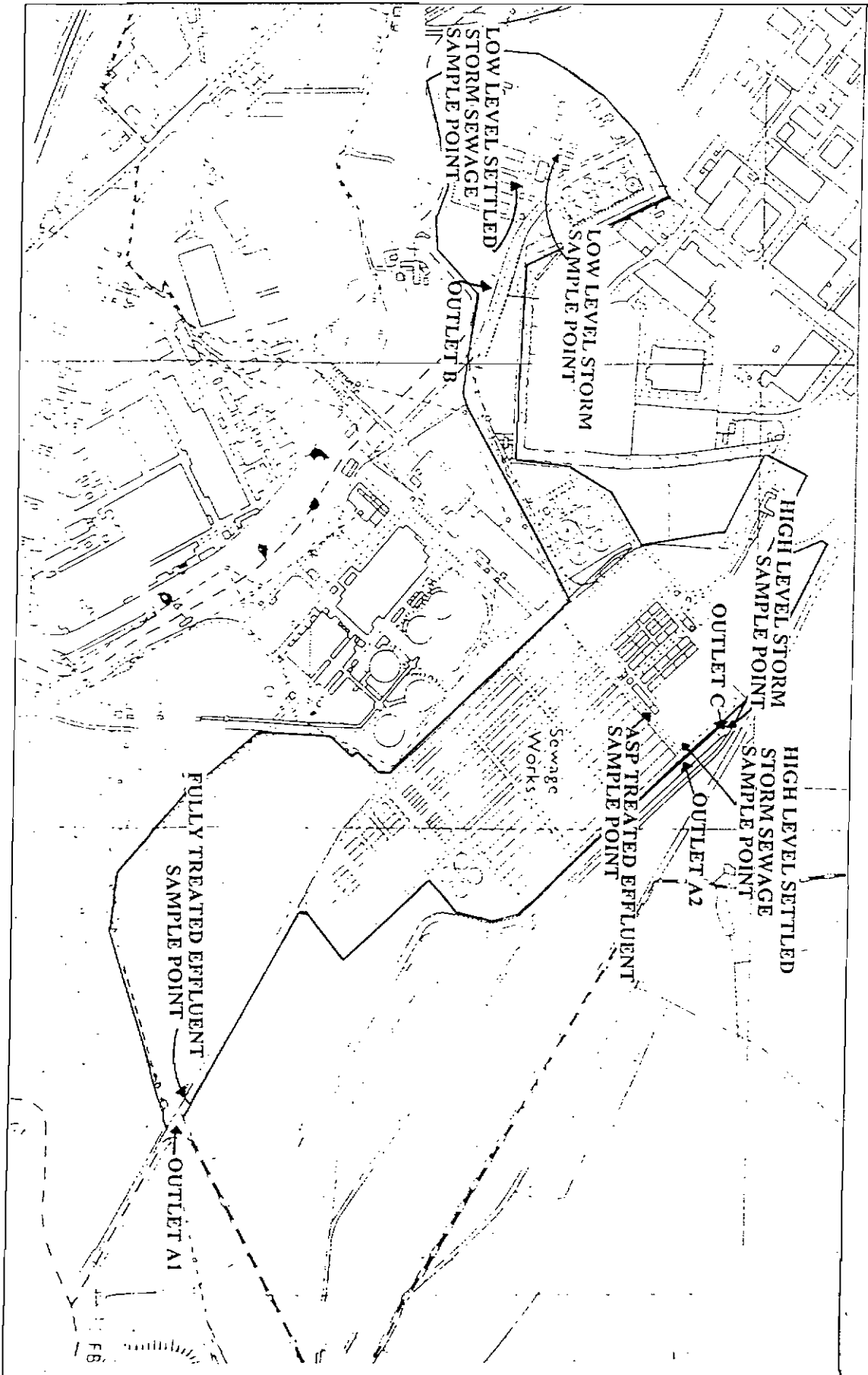


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS
SE 3384 3185

BASED UPON THE ORDNANCE SURVEY MAP
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LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS



BASED UPON THE ORDNANCE SURVEY MAP WITH
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CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Storm Sewage and Emergency
From: Low Level Sewer Overflow, Leeds (Knothrop) Sewage Treatment Works
To: River Aire
NGR: SE 3285 3137

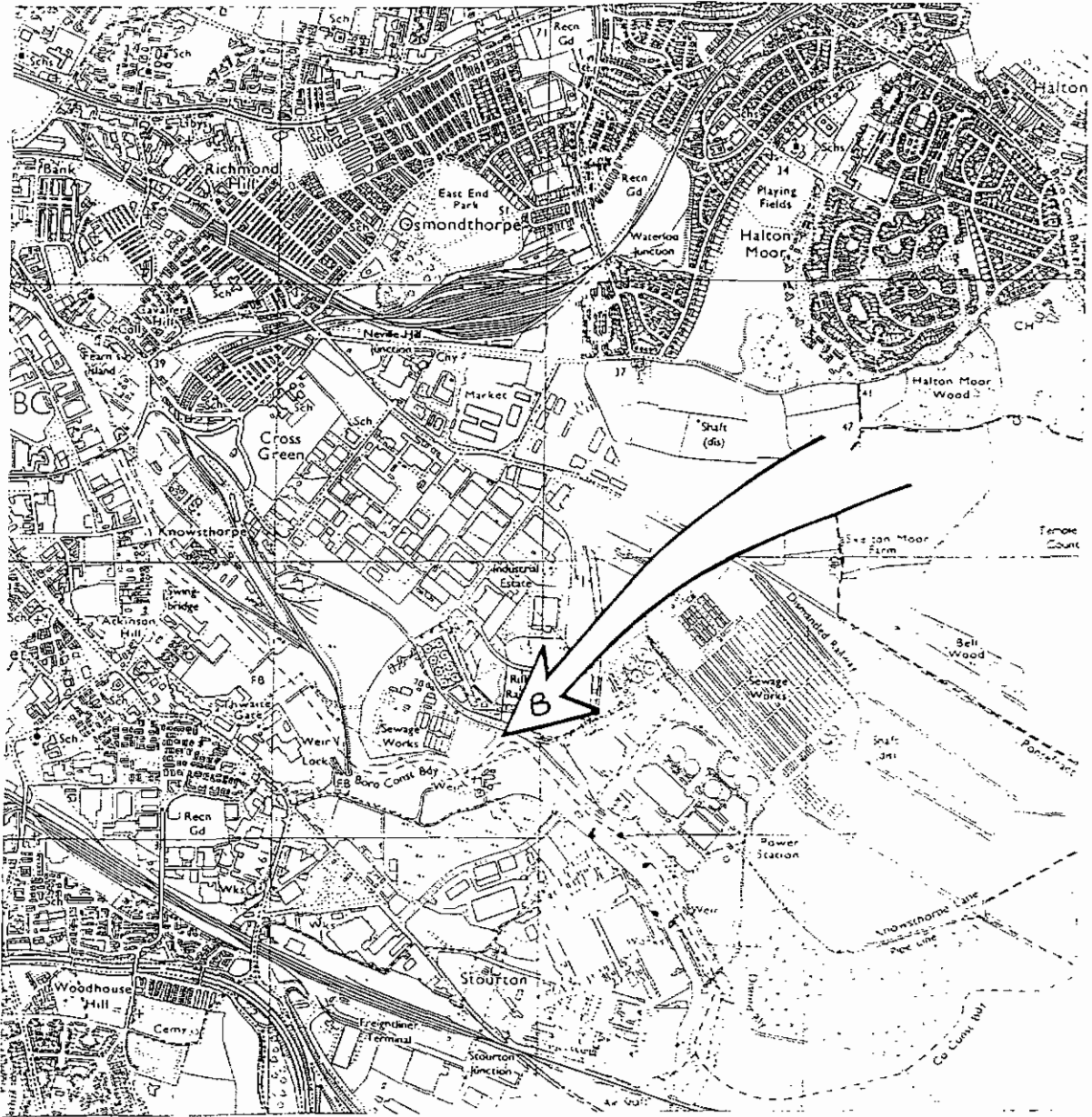
CONDITIONS 1 - 11

1. The discharges shall be made via the common outlet at National Grid Reference SE 3285 3137 (indicated as outlet B on the attached map) into River Aire.
2. The discharge shall consist solely of storm sewage and/or sewage discharge in an emergency.
3. The discharge shall not:
 - (a) contain a significant quantity of solid matter having a size greater than 20 millimetres in one dimensions.
 - (b) be comminuted or macerated to achieve the standard in (a).
4. The discharge shall occur only:
 - (a) when the rate of flow in the sewer at the storm overflow weir at the Low Level Works exceeds 4861 litres per second due to rainfall and/or snow melt and shall consist only of flows in excess of this figure; and/or
 - (b) when the sewage pumping station is inoperative as a result of one or more of the following:
 - (i) electrical power failure not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;
 - (iii) rising main failure;

- (iv) blockage of the downstream sewer not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;

and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the discharger in remedying any such failure or breakdown.

5. A 24 hour response telemetry alarm system shall be provided and maintained to provide a notification of failure or breakdown of the pumping station. The system shall be tested on a regular basis, as agreed in writing with the Authority, to ensure that it is functioning satisfactorily. The discharger shall keep a record of the test results available for inspection by the Authority.
6. Following installation of the pumping station failure or breakdown telemetry system the discharger shall take all reasonable remedial measures, as soon as is practicable after receipt of warning of failure or breakdown of the pumping station, to return the pumping station to normal operation.
7. A duplicate electrical supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
8. The duty pump(s) shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained at all times.
9. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.
10. The Authority shall be notified as soon as practicable and in any case by the following working day, that an emergency discharge under condition 4(b) above has been or is being made.
11. A sample point at National Grid Reference SE 3253 3158 shall be constructed, maintained and appropriately labelled so that a representative sample of the storm sewage discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the storm sewage taken at the said sampling point is a sample of what was discharging into controlled waters.

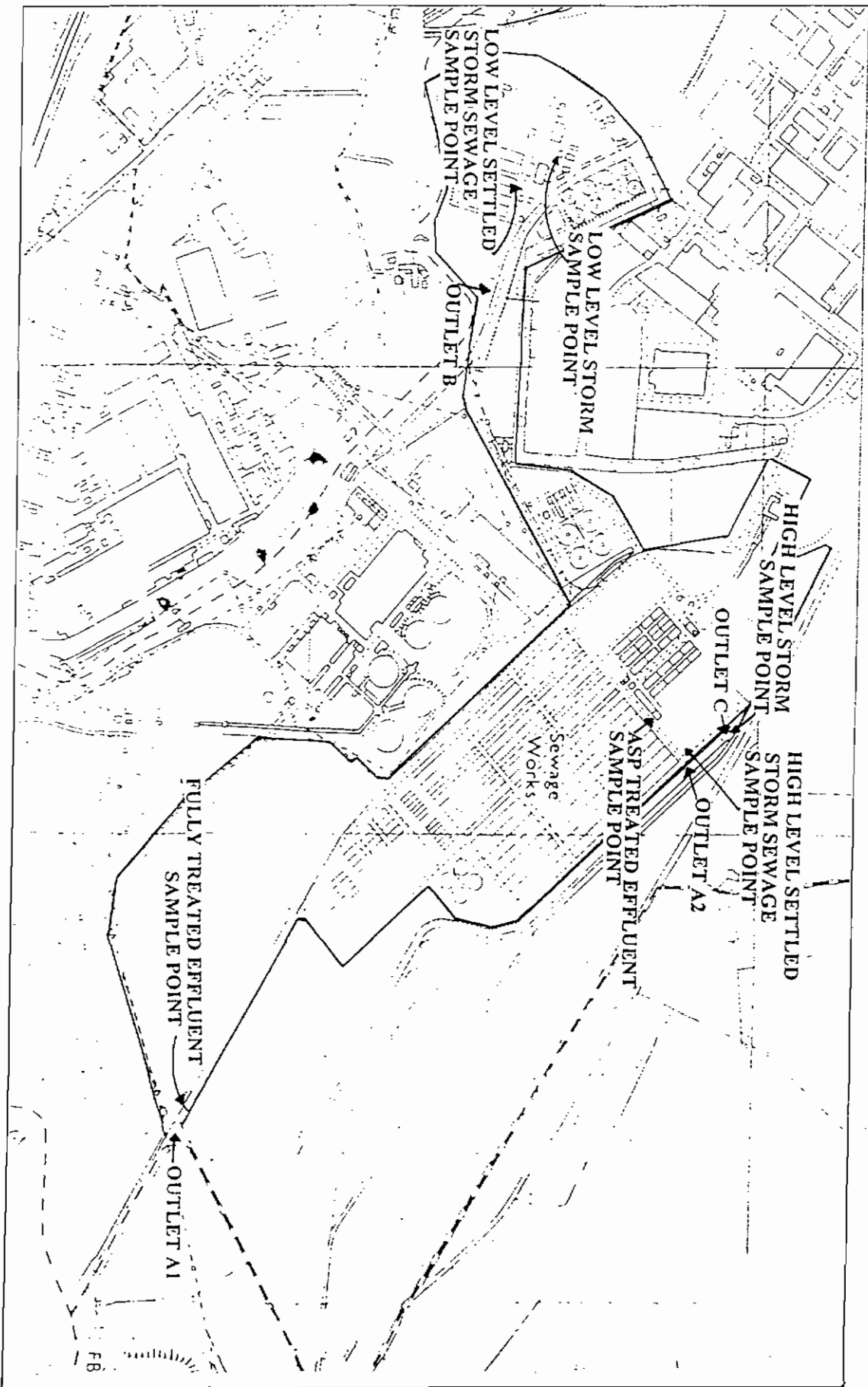


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS
SE 32853137

BASED UPON THE ORDNANCE SURVEY MAP
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LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS



BASED UPON THE ORDNANCE SURVEY MAP WITH
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CONDITIONS OF CONSENT TO DISCHARGE

Nature of effluent: Storm Sewage and Emergency

From: High Level Sewer Overflow, Leeds (Knoströp) Sewage Treatment Works

To: Wyke Beck

NGR: SE 3378 3193

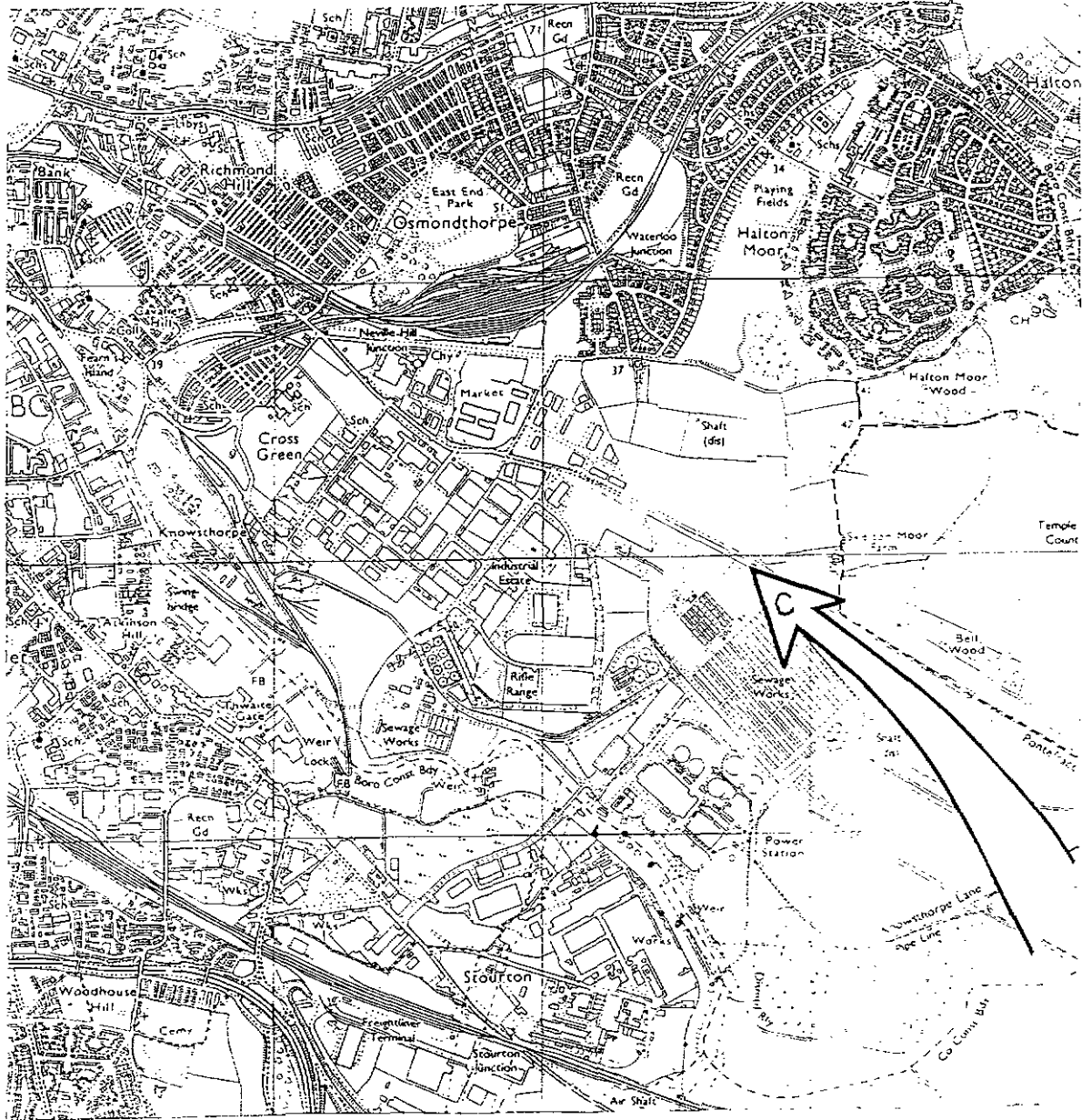
CONDITIONS 1 - 11

1. The discharges shall be made via the common outlet at National Grid Reference SE 3378 3193 (indicated as outlet C on the attached map) into Wyke Beck.
2. The discharge shall consist solely of storm sewage and/or sewage discharged in an emergency.
3. The discharge shall not:
 - (a) contain a significant quantity of solid matter having a size greater than 20 millimetres in one dimensions.
 - (b) be comminuted or macerated to achieve the standard in (a).
4. The discharge shall occur only:
 - (a) when the rate of flow in the sewer at the storm overflow weir at the High Level Works exceeds 6481 litres per second due to rainfall and/or snow melt and shall consist only of flows in excess of this figure; and/or
 - (b) when the sewage pumping station is inoperative as a result of one or more of the following:
 - (i) electrical power failure not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;
 - (ii) mechanical breakdown of duty and standby pumps;
 - (iii) rising main failure;

- (iv) blockage of the downstream sewer not due to the act or default of the discharger, its agents, representatives, officers, employees or servants;

and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the discharger in remedying any such failure or breakdown.

5. A 24 hour response telemetry alarm system shall be provided and maintained to provide a notification of failure or breakdown of the pumping station. The system shall be tested on a regular basis, as agreed in writing with the Authority, to ensure that it is functioning satisfactorily. The discharger shall keep a record of the test results available for inspection by the Authority.
6. Following installation of the pumping station failure or breakdown telemetry system the discharger shall take all reasonable remedial measures, as soon as is practicable after receipt of warning of failure or breakdown of the pumping station, to return the pumping station to normal operation.
7. A duplicate electrical supply shall be provided and maintained for use in the event of failure of the normal electricity supply.
8. The duty pump(s) shall be maintained in good working order, and at least one stand-by pump shall be provided and maintained at all times.
9. Stand-by pump(s) shall automatically activate should the duty pump(s) become inoperative for reasons other than power failure. The pumping station shall be maintained so that the pump shall automatically reactivate immediately after the power is restored after interruption to the supply.
10. The Authority shall be notified as soon as practicable and in any case by the following working day, that an emergency discharge under condition 4(b) above has been or is being made.
11. A sample point at National Grid Reference SE 3378 3194 shall be constructed, maintained and appropriately labelled so that a representative sample of the storm sewage discharged may be obtained. The discharger shall ensure that all constituents of the discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the storm sewage taken at the said sampling point is a sample of what was discharging into controlled waters.

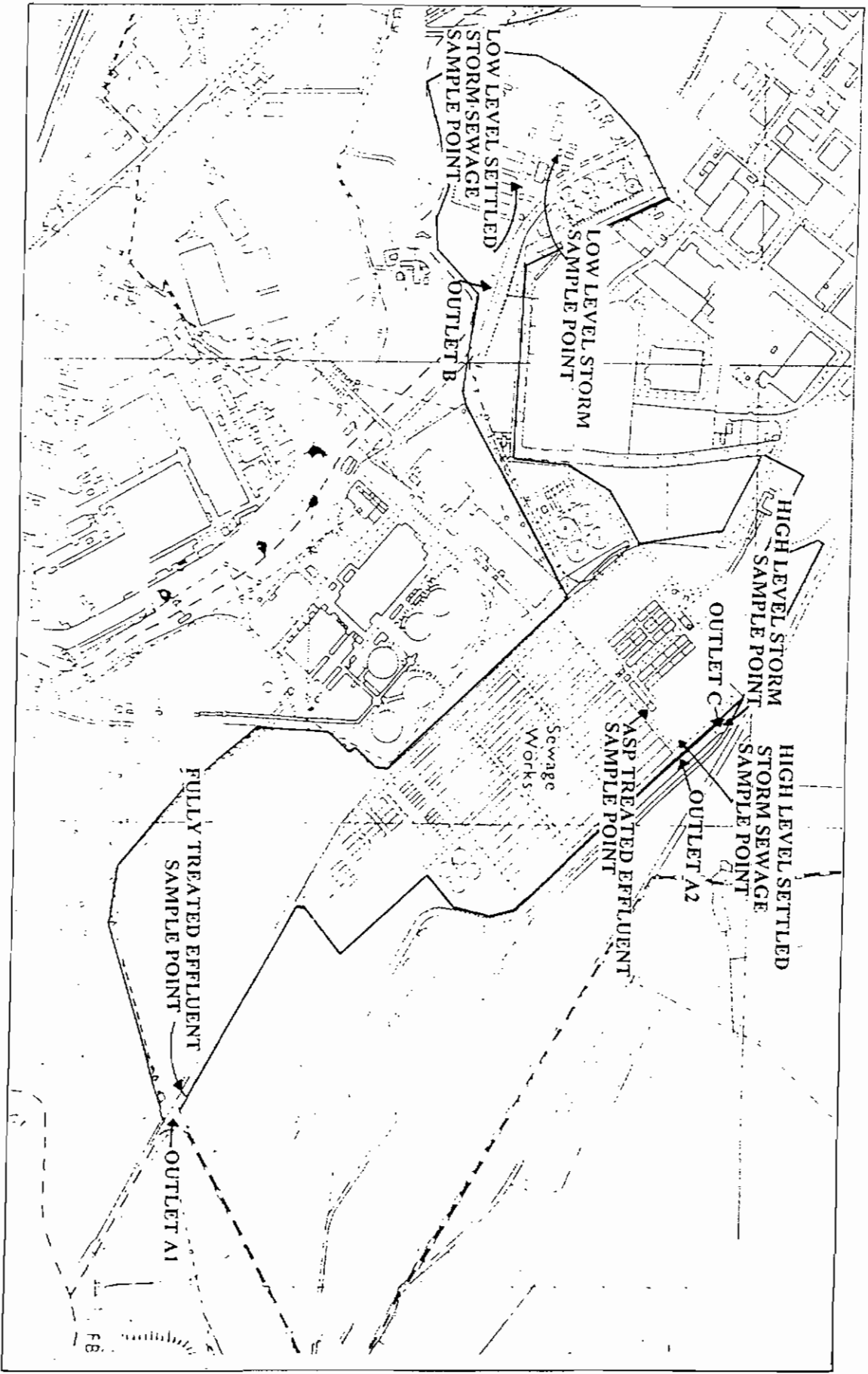


LOCATION OF:

LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS
SE 3378 3193

BASED UPON THE ORDNANCE SURVEY MAP
WITH SANCTION OF THE CONTROLLER
OF H.M.S.O. CROWN COPYRIGHT RESERVED
LICENCE NO. WU29859X

LOCATION OF OUTLETS AND SAMPLE POINTS AT
LEEDS (KNOSTROP) SEWAGE TREATMENT WORKS



BASED UPON THE ORDNANCE SURVEY MAP WITH
SANCTION OF THE CONTROLLER OF H.M.S.O. CROWN
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ANNEX 1

TABLE

Series of samples taken in any year	Maximum number of samples for given determinand permitted to exceed limit
4 - 7	1
8 - 16	2
17 - 28	3
29 - 40	4
41 - 53	5
54 - 67	6
68 - 81	7
82 - 95	8
96 - 110	9
111 - 125	10
126 - 140	11
141 - 155	12
156 - 171	13
172 - 187	14
188 - 203	15
204 - 219	16
220 - 235	17
236 - 251	18
252 - 268	19
269 - 284	20
285 - 300	21
301 - 317	22
318 - 334	23
335 - 350	24
351 - 365	25

ANNEX

LIST I

ALDRIN, DIELDRIN, ENDRIN &
ISODRIN
CADMIUM and its compounds
CARBON TETRACHLORIDE
CHLOROFORM
DDT (all isomers)
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HEXACHLOROCYCLOHEXANE
(all isomers)
MERCURY and its compounds:
Chlor-alkali
Other sectors
PENTACHLOROPHENOL
1,2-DICHLOROETHANE
TRICHLOROETHANE
TETRACHLOROBENZENE(1,2,4
and technical mixt.)

LIST II

AMMONIA (Undissociated)
AMMONIA (Total NH₃ and NH₄)
ARSENIC
BORON
CHROMIUM
COPPER
IRON
LEAD
NICKEL
pH
SULPHIDE
TIN(Inorganic)
VANADIUM
ZINC
TRIBUTYL TIN COMPOUNDS
TRIPHENYL TIN COMPOUNDS
MOTHPROOFING AGENTS:
PCSDs
Cyfluthrin
Sulcofuron
Flucoruron
Permethrin

RED LIST

ALDRIN
ATRAZINE
AZINPHOS-METHYL
CADMIUM and its compounds
DDT (including metabolics DDD
and DDE)
1,2 DICHLOROETHANE
DICHLORVOS
DIELDRIN
ENDOSULFAN
ENDRIN
FENITROTHION
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
MALATHION
MERCURY and its compounds
PCBs (POLYCHLORINATED
BIPHENYLS)
PENTACHLOROPHENOL
SIMAZINE
TRICHLOROBENZENE(all
isomers)
TRIFLURALIN
TRIOORGANOTIN COMPOUND

26 May 1994

COPY

NATIONAL RIVERS AUTHORITY

THE WATER RESOURCES ACT 1991 - SECTION 88 - SCHEDULE 10

CONSENT TO DISCHARGE

Applicant: YORKSHIRE WATER SERVICES LIMITED Consent No : WRA 6924
West Riding House
67 Albion Street
Leeds
LS1 5AA

Nature of effluent to which the consent relates :

Treated sewage effluent
Settled storm sewage effluent
Storm sewage effluent
Emergency overflow

Place(s) at which discharges may be made :

KNOSTROP SEWAGE
TREATMENT WORKS

Parish : -

District: Leeds

N.G.R. : see below

Receiving water:

River Aire/Wyke Beck

As indicated on annexed map and site plan

CONDITIONS subject to which this consent is given :

1. The effluent(s) shall not be discharged otherwise than at the place stated above.
2. (a) the discharge (A1) shall consist only of treated sewage effluent discharged to the Wyke Beck from an outlet at SE 3465 3072.
(b) the discharge (A2) shall consist only of treated sewage effluent discharged to the Wyke Beck from an outlet at SE 3384 3185.
(c) the discharge (B1) shall consist only of settled storm sewage effluent discharged to the River Aire from an outlet at SE 3285 3137.
(d) the discharge (B2) shall consist only of settled storm sewage effluent discharged to the Wyke Beck from an outlet at SE 3384 3185.
(e) the discharge (C1) shall consist only of storm sewage effluent discharged to the River Aire from an outlet at SE 3285 3137.

CONDITIONS subject to which this consent is given (cont'd)

(f) the discharge (C2) shall consist only of storm sewage effluent discharged to the Wyke Beck from an outlet at SE 3378 3193.

(g) the discharge (D1) shall consist only of sewage effluent discharged to the River Aire in an emergency from an outlet at SE 3285 3137 (Low level screw pump failure).

(h) the discharge (D2) shall consist only of sewage effluent discharged to the River Aire in an emergency from an outlet at SE 3285 3137 (Low level second lift pump failure).

(i) the discharge (D3) shall consist only of sewage effluent discharged to the Wyke Beck in an emergency from an outlet at SE 3378 3193 (High level screw pump failure).

TREATED SEWAGE EFFLUENT (Discharges A1 & A2)

3. Facilities and equipment shall be provided and used to measure and record continuous flow rate, total daily volume and oxygen demand. Flow proportional sampling equipment shall also be provided and the resulting samples made available to the National Rivers Authority on request. All measurements and results of analysis shall be made available to the National Rivers Authority upon request.
4. The volume of treated sewage effluent discharged under dry-weather conditions shall not exceed 205000 cubic metres in any period of 24 hours. (Taken as the sum of Outlets A1 & A2 filter humus tank effluent and activated sludge plant effluent).
- 5.(i) Subject to condition 6 below no sample of the filter humus tank effluent from outlet A1 taken by the National Rivers Authority shall contain more than:-
 - (a) 70 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (b) 40 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius.
 - (c) 15 milligrams per litre of Ammoniacal Nitrogen.
 - (d) 250 milligrams per litre of Chemical Oxygen Demand (COD).

CONDITIONS subject to which this consent is given (cont'd)

- (ii) Subject to condition 6 below no sample of the activated sludge plant effluent from outlet A2 taken by the National Rivers Authority shall contain more than:-
- (a) 70 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (b) 40 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius.
 - (c) 30 milligrams per litre of Ammoniacal Nitrogen.
 - (d) 250 milligrams per litre of Chemical Oxygen Demand (COD).
- (iii) Subject to condition 6 below no sample of the filter humus tank effluent and activated sludge plant effluent from outlets A1 & A2 taken by the National Rivers Authority shall contain more than:-

For the period commencing 31-12-1995

- (a) 30 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (b) 18 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius.
 - (c) 7 milligrams per litre of Ammoniacal Nitrogen.
 - (d) 250 milligrams per litre of Chemical Oxygen Demand (COD).
6. The limit for any of the determinands set out in condition 5 above may be exceeded where, in any series of samples of treated sewage effluent taken (whether before or after the grant of this consent) by the National Rivers Authority in the period of twelve months ending on the date of the discharge as listed in column (1) of the table at annex A to this schedule, no more than the relevant number of samples, as listed in column (2) of the said table, exceeds the applicable limit for that determinand at the time when a sample is taken, that is in respect of samples taken after the grant of this consent, the limit set out in condition 5 and in respect of samples taken before the grant of this consent the corresponding provision of the consent then in force.

CONDITIONS subject to which this consent is given (cont'd)

- 7.(i) Notwithstanding the provisions of conditions 5 and 6 above no one sample of the filter humus tank effluent from outlet A1 taken by the National Rivers Authority shall contain more than:-
- (a) 175 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (b) 80 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius).
 - (c) 30 milligrams per litre of Ammoniacal Nitrogen.
 - (d) 500 milligrams per litre of Chemical Oxygen Demand (COD).
- (ii) Notwithstanding the provisions of conditions 5 and 6 above no one sample of the activated sludge plant effluent from outlet A2 taken by the National Rivers Authority shall contain more than:-
- (a) 175 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
 - (b) 80 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius).
 - (c) 60 milligrams per litre of Ammoniacal Nitrogen.
 - (d) 500 milligrams per litre of Chemical Oxygen Demand (COD).
- (iii) Notwithstanding the provisions of conditions 5 & 6 above no one sample of the filter humus tank effluent and the activated sludge plant effluent from outlets A1 & A2 taken by the National Rivers Authority shall contain more than:-

For the period commencing 31-12-1995

- (a) 75 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
- (b) 36 milligrams per litre of Biochemical Oxygen Demand (using the allylthiourea modification) in five days at 20 degrees Celsius).
- (c) 14 milligrams per litre of Ammoniacal Nitrogen.
- (d) 500 milligrams per litre of Chemical Oxygen Demand (COD).

CONDITIONS subject to which this consent is given (cont'd)

8. No one sample of filter humus tank effluent from outlet A1 shall contain:-
- (i) (a) in excess of 1 microgram per litre of total mercury.
 - (b) in excess of 5 micrograms per litre of total cadmium.
 - (c) in excess of 0.3 micrograms per litre of hexachlorocyclohexane (HCH) (sum of alpha and gamma isomers).
 - (d) in excess of 250 micrograms per litre of total copper (for the period ending 30-12-1995).
 - (e) in excess of 100 micrograms per litre of total copper (for the period commencing 31-12-1995).
 - (f) in excess of 30 micrograms per litre of chloroform.
 - (g) in excess of 250 micrograms per litre of total chromium.
 - (h) in excess of 250 micrograms per litre of total nickel.
 - (i) in excess of 250 micrograms per litre of total zinc.
 - (j) in excess of 20 micrograms per litre of total vanadium.
 - (k) in excess of 5 micrograms per litre of total pentachlorophenol.
 - (l) in excess of 2,000 micrograms per litre of total boron.
 - (m) in excess of 50 micrograms per litre of total lead.
- (ii) No one sample of activated sludge plant effluent from outlet A2 shall contain:-
- (a) in excess of 5 micrograms per litre of total cadmium.
 - (b) in excess of 1 microgram per litre of total mercury.
 - (c) in excess of 0.3 micrograms per litre of hexachlorocyclohexane (HCH) (sum of alpha and gamma isomers).
 - (d) in excess of 150 micrograms per litre of total copper (for the period ending 30-12-1995).
 - (e) in excess of 100 micrograms per litre of total copper (for the period commencing 31-12-1995).
 - (f) in excess of 30 micrograms per litre of chloroform.
 - (g) in excess of 50 micrograms per litre of total chromium.
 - (h) in excess of 220 micrograms per litre of total nickel.
 - (i) in excess of 300 micrograms per litre of total zinc.
 - (j) in excess of 20 micrograms per litre of total vanadium.
 - (k) in excess of 5 micrograms per litre of total pentachlorophenol.
 - (l) in excess of 2,000 micrograms per litre of total boron.
 - (m) in excess of 50 micrograms per litre of total lead.

CONDITIONS subject to which this consent is given (cont'd)SETTLED STORM SEWAGE EFFLUENT (Discharges B1 & B2)

9. Facilities shall be provided to enable the installation of continuous flow measurement equipment to record the rate of discharge. Such measurements shall be taken and the records made available to the National Rivers Authority, as and when requested.
- 10.(i) The volume of settled storm sewage discharged from the Low Level Works (discharge B1) shall be limited to that resulting from the overflow of sewage at the storm overflow weir in excess of 2431 litres per second.
- (ii) The volume of settled storm sewage discharged from the High Level Works (discharge B2) shall be limited to that resulting from the overflow of sewage at the storm overflow weir in excess of 2488 litres per second.
11. The composition of settled storm sewage shall be such that no one sample thereof contains more than 150 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius).
12. The contents of storm tank(s) shall be automatically returned for full treatment as soon as is practicable after the overflow to the tank(s) has ceased.

STORM SEWAGE EFFLUENT (Discharges C1 & C2)

- 13.(i) The volume of storm sewage discharged from the Low Level Inlet Works (discharge C1) shall be limited to that resulting from the overflow of sewage at the storm overflow weir in excess of 4861 litres per second.
- (ii) The volume of storm sewage discharged from the High Level Inlet Works (discharge C2) shall be limited to that resulting from the overflow of sewage at the storm overflow weir in excess of 6481 litres per second.
14. No solid matter which would be retained on a screen the apertures of which are each not greater than 20 millimetres wide shall enter the watercourse.
15. If operation of the overflow results in solid matter being visible in the receiving watercourse or on its banks the discharger shall take all necessary steps to collect and remove such matter as soon as reasonably practicable after the discharge has been made.

CONDITIONS subject to which this consent is given (cont'd)EMERGENCY (Discharges D1,D2 & D3)

16. In the event of any discharge being made through any of the outlets D1,D2 and D3, the National Rivers Authority shall be notified by the discharger as soon as is practicable.
17. The effluent shall only be discharged in an emergency when both duty and standby pumps at the pumping station are inoperative due to electrical failure.
18. Any mechanical or electrical breakdown shall be rectified as soon as possible and the equipment returned to normal operation as soon as practicable.
19. Provision shall be made for the connection of temporary electrical generator(s) in the event of a mains power supply failure.
20. An alarm system shall be provided and maintained in working order to alert the discharger in the event of pumping station failure. This system shall be connected to a 24 hour continuously manned station.
21. An alarm system installed in accordance with the above conditions shall be tested on a regular basis to ensure its effective function. The discharger shall record the results of such tests and upon request, provide to the National Rivers Authority, details of the tests carried out and their frequency.
22. The discharger shall take all practical steps to minimise the duration and extent of the emergency discharge to the watercourse.
23. A tanker access facility shall be provided to enable disposal of sewage by tanker when necessary.

GENERAL

24. The discharger shall record influents to the sewerage system draining to the works in the format specified in Annex A1 of this consent. Such records shall be made available to the National Rivers Authority as and when requested.
25. The discharger shall give to the National Rivers Authority prior written notice before any change in circumstances likely to alter the constituents of any of the effluents discharged by him previously are permitted or made.

CONDITIONS subject to which this consent is given (cont'd)

26. The discharge shall not contain any matter (either on its own or in combination with any other matter), to such an extent as to cause the receiving waters to be poisonous or injurious to fish or the spawning grounds, spawn or food of fish.
27. The discharge shall not contain any substance not listed in paragraphs 5 & 7 of this consent, unless that substance is at a concentration which will not be poisonous, noxious or polluting to the receiving watercourse either on its own or in combination with any other matter.

TAKING OF SAMPLES

- 28 Facilities shall be provided to the National Rivers Authority's authorised representatives so as to enable samples of the effluents to be conveniently obtained at the relevant sampling points.

This consent will come in effect upon the revocation of the existing consent No.E20.

CONDITIONS subject to which this consent is given (cont'd)

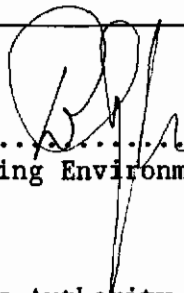
Notes

If the applicant or discharger considers that the conditions of this consent are unreasonable he may, within three months from the giving of the consent, appeal to the Secretary of State for the Environment, Room A404, Water Environment A Division, Romney House, 43 Marsham Street, London SW1P 3PY

No notice will be served by virtue of paragraph 6(2) or 6(4)(c) of Schedule 10 to the Water Resources Act 1991 in respect of this consent, during the period of 2 years beginning with the day it takes effect.

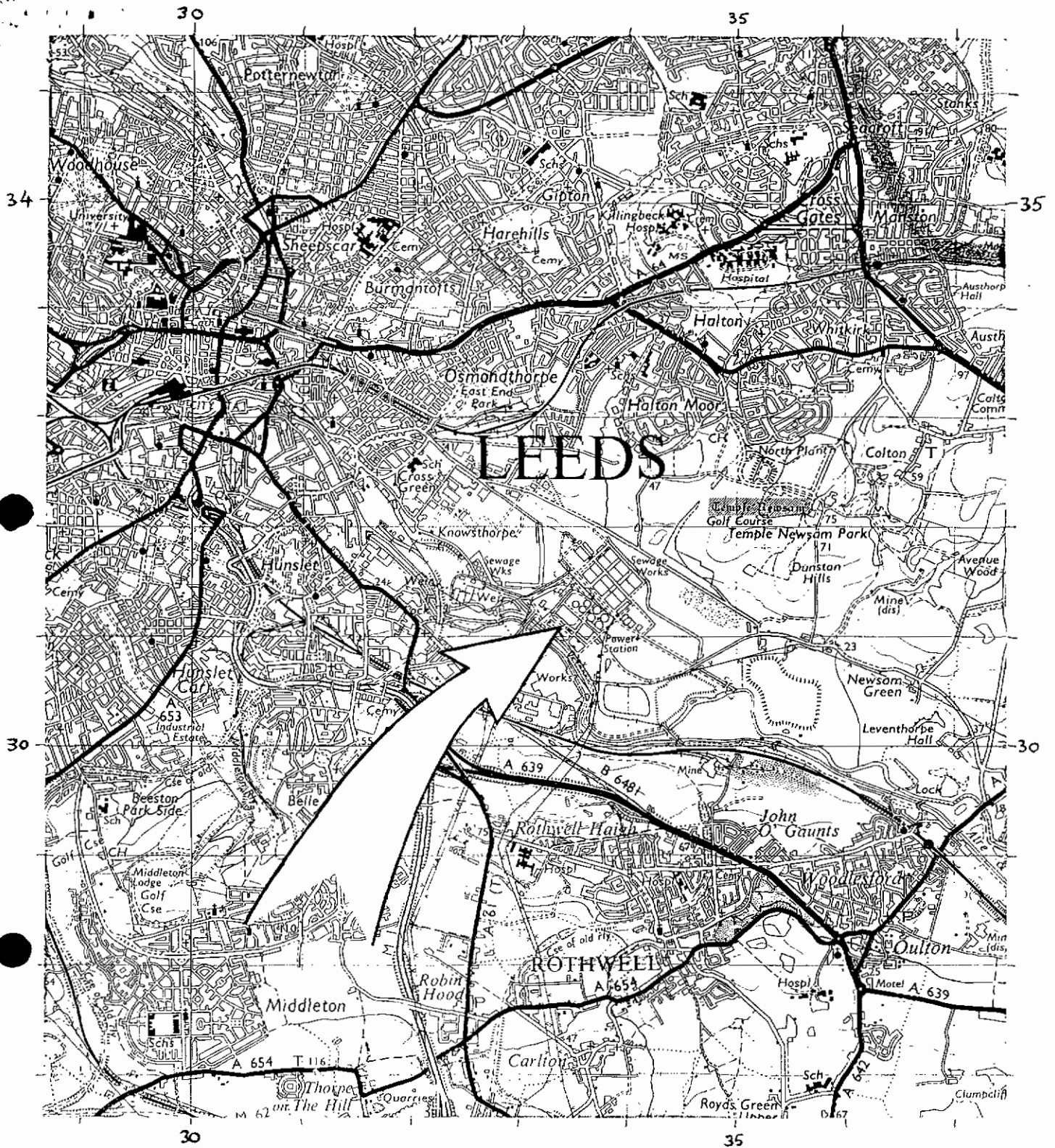
Explanatory note:-

- i) paragraph 6(2) empowers the Authority to revoke a consent or impose or modify conditions.
- ii) paragraph 6(4)(c) empowers the Secretary of State to direct the Authority to do so.

(signed).....  (date of issue)..... 16.7.93

Acting Environment Manager

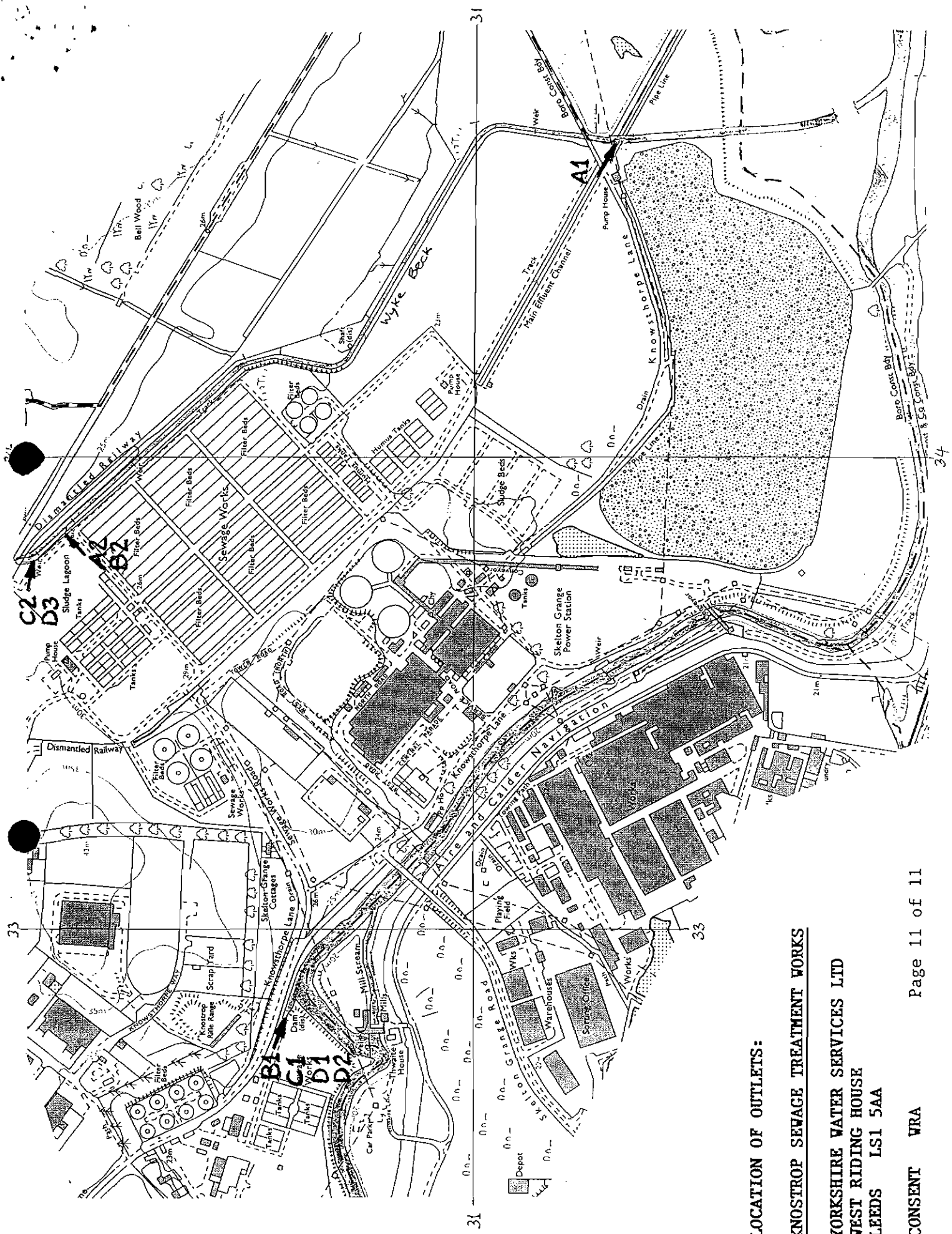
National Rivers Authority
Northumbria & Yorkshire Region
Rivers House
21 Park Square South
Leeds
LS1 2QG



LOCATION PLAN:

KNOSTROP SEWAGE TREATMENT WORKS

YORKSHIRE WATER SERVICES LTD
 WEST RIDING HOUSE
 67 ALBION STREET
 LEEDS
 LSI 5AA



LOCATION OF OUTLETS:

KNOSTROP SEWAGE TREATMENT WORKS

**YORKSHIRE WATER SERVICES LTD
WEST RIDING HOUSE
LEEDS LS1 5AA**

ANNEX A

TABLE

Series of samples
taken in any year

Maximum number of samples
for given determinand
permitted to exceed limit

4 - 7	1
8 - 16	2
17 - 28	3
29 - 40	4
41 - 53	5
54 - 67	6
68 - 81	7
82 - 95	8
96 - 110	9
111 - 125	10
126 - 140	11
141 - 155	12
156 - 171	13
172 - 187	14
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