

ENVIRONMENTAL PROTECTION ACT 1990
WASTE MANAGEMENT LICENCE

1. The Waste Regulation Authority hereby grant a Waste Management Licence to

Wessex Water Services Ltd

of

**Passage Street
Bristol, Avon**

for land occupied at Bradford Road, Trowbridge, Wiltshire subject to the conditions listed overleaf.

2. This licence is issued in accordance with Part 2 of the Environmental Protection Act 1990. The licence holder must ensure that all other relevant legislation is complied with. Attention is particularly drawn to the Health and Safety at Work etc. Act 1974, the Radioactive Substances Act 1960 and planning, water protection and environmental health legislation.

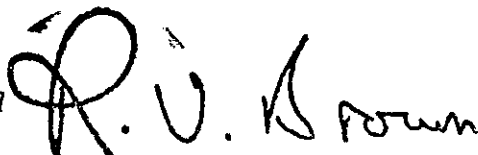
NOTES

Rights of Appeal

If a licence holder is aggrieved by the decision of the Waste Regulation Authority in granting a licence subject to conditions he may appeal to the Secretary of State in accordance with Section 43 of the Environmental Protection Act 1990. Appeals must be notified within 6 months of the date of this licence to the Secretary of State, Department of the Environment, Room 10/13, Tollgate House, Houlton Street, Bristol, Avon, BS2 9DJ. The Secretary of State has power to allow a longer period for the giving of notice of an appeal, but he will not normally be prepared to exercise this power unless there are special circumstances which excuse the delay in giving notice of an appeal.

Dated this 9th September 1994

Signed



Authorised Officer

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Application Date	31st July 1992
Modification Date	28th July 1994

Brief Details of Occupied Site	
Location	Sewage Treatment Works, Bradford Road, Trowbridge Wiltshire
Nature of Licensed Activities	Treatment of industrial waste liquids and sludges.

Conditions

Types of Waste

1. The types and quantities of wastes received at the facility shall not exceed the operator's ability to deal with them. For the purposes of fees and charges, the maximum amount of waste delivered to the site is anticipated to be in the order of 5,000 tonnes per annum.
2. The usual waste streams and associated maximum volumes are listed in Appendix 1 of the accompanying Working Plan which is attached to this licence and forms part of it.
3. Any other wastes deemed suitable for disposal at this facility shall require notification and agreement from the Waste Regulation Officer in writing prior to acceptance.

Site Work Conditions

4. All site works indicated in the Working Plan shall be completed to the satisfaction of the Waste Regulation Officer.
5. No waste shall be deposited at the facility unless operational areas are surfaced with a hard, durable, impermeable material capable of taking loaded vehicles without deformation.

Operational Conditions

6. The site shall be adequately manned during working hours, and supervised by a technically competent person or persons.

15. No waste shall be deposited at the facility without the prior consent of the Operational Manager.
16. Such action as may reasonably be necessary shall be taken to prevent the deposit of waste or mud on public highways by vehicles using the site.
17. Precautions shall be taken to ensure that vermin and insects do not become established on the site.
18. Precautions shall be taken while waste is being discharged from tankers to prevent spillage. In the event that liquid waste should be spilt the licence holder shall provide on site and adjacent to the facility a supply of suitable absorbent material.

A record shall be kept of spillages or other accidents at the facility.

19. Should the amount, quality and properties of any drainage from the site prove unsatisfactory at any time, provision shall be made for the collection and removal or treatment of the offending liquors. All works undertaken to comply with this shall be completed to the satisfaction of the Waste Regulation Authority following its consultation with the National Rivers Authority.

**METHOD OF OPERATION FOR THE TROWBRIDGE TANKERED WASTE
RECEPTION FACILITY**

1. Introduction

- 1.1.1 This document describes the method of operation to be adopted at Trowbridge Sewage Treatment Works (STW) in conjunction with the construction of a permanent tanker reception facility at the site.
- 1.1.2 It also marks a transition from receiving liquid wastes from tankers owned and run by Wessex Water, to inclusion of reception, treatment and disposal of wastes from other waste contractors. This amendment to the previous operating plan is intended to demonstrate the ability to continue to fulfil Licence conditions.
- 1.1.3 It is intended principally to cover procedures for reception of wastes from non-Wessex Water carriers. Where Wessex Water's own tanker operations are concerned, Appendix 2 describes any material differences.

1.2 Licence Status

- 1.2.1 The County of Wiltshire Waste Regulation Authority granted Waste Disposal Licence W920075 WD to Wessex Water Services Ltd on 5 August 1993.
- 1.2.2 Details relating to modification of the Licence in terms of the disposal area, types and volumes of wastes to be accepted at the site are shown in Appendix 1. Site boundary, access and other matters are unchanged except where detailed.

1.3 The Operating Company

- 1.3.1 The site is operated by Wessex Water Services Ltd, a wholly owned subsidiary of Wessex Water Plc. Wessex Water is a major UK water utility with experience of providing services with the highest levels of regulatory compliance and in playing a major role in maintaining and improving environmental quality.

- 1.3.2 The Company is currently organised into three Waste Water operating Divisions, Trowbridge falling into Avon & Wilts Division. Operational management is split between Trowbridge and Avonmouth, the overall Operational Manager for the Division being based at Avonmouth.

2. Site Description

2.1 The Site

- 2.1.1 The site is as previously described in the original Licence application.

- 2.1.2 Other than access and egress, again as previously described, waste discharge operations will be confined to the area shown in the map forming part of Appendix 1. A diagram and description of the area concerned is also detailed in Appendix 1. The area is close to, but different from, Area B detailed in the Licence.

2.3 Services

- 2.3.1 The site and adjacent STW facilities are served by all normal mains services.

3. Infrastructure

3.1 Access

- 3.1.1 Access to the site is as previously described.

3.2 Site Road

- 3.2.1 Vehicular access to the facility will be by metalled roads and hardstandings which will be maintained in good repair in accordance with Condition 12 of the Licence. Appropriate drainage measures will be in place to contain any spillage/run-off.

3.3 Offices

- 3.3.1 The site control office is located inside the site entrance. All vehicular traffic entering from the STW access must pass the control office to reach the discharge facility.

3.3.2 The site control office is an area operations building and is fully staffed and equipped as an operational centre.

3.4 Infrastructure Drainage

3.4.1 Run off from the facility drains to the STW as described in Appendix 1

3.5 Security

3.5.1 The facility lies within the perimeter fence of the STW with limited public access as previously described.

3.5.2 A sign describing the facility, Licence, WRA and operational contact details is situated at the STW gateway.

4. Site Management and Operations

4.1 Site Management and Staffing

4.1.1 The site is manned during normal working hours by a site operative, technical and operational managers. The number of staff on site at any time may vary, but the site control office will be manned at all times during which the facility is open for the receipt of waste.

4.1.2 There is a local Operations Manager based on site who reports to the Divisional Manager at Avonmouth.

4.1.3 All staff concerned with receipt of waste are adequately trained for their tasks and are fully conversant with the terms and conditions of the Waste Disposal Licence and this working plan. The required level of technical competence for the Division and the Trowbridge site is being covered by registration with WAMITAB of M Humphries, Treatment Controller based at the site, and D Burstow, Business Development Manager based at Avonmouth, for PCOTC's at the appropriate level.

4.2 Hours of Operation

4.2.1 The site will be open as previously described, with occasional emergency opening outside of normal working hours, notified to the WRA in advance where practicable.

4.3 Waste Acceptance Procedures

4.3.1 In accordance with the Duty of Care under the Environmental Protection Act 1990, waste producers must take reasonable steps to ensure that waste is safely contained and that it is transferred only to an authorised person. It is the duty of the producer to complete a transfer note which adequately describes the waste. The Company will only accept wastes which are the subject of a properly completed transfer note. Under the Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations, 1991, only registered carriers are authorised to carry controlled wastes. The Company will only accept controlled wastes delivered by registered carriers or those legally exempt from registration. Other wastes will only be accepted from carriers approved by the Company ("Permit" holders).

4.3.2 All wastes will be subject to pre-acceptance sampling and testing in accordance with Appendix 3. Waste enquiries and pre-acceptance will be dealt with at Avonmouth by the LDC Manager. Subject to this being satisfactory, the waste will be referred to the Treatment Controller at Trowbridge and signed off by him or the Operations Manager as suitable for treatment at the site, with recommended volume/frequency limits or other caveats. Transactions logged by pro-forma back to Avonmouth and each waste given a unique reference number.

4.4 Waste Reception and Records

4.4.1 Permit and waste carrier registration checks will be made at the site control office. All waste discharges will be supervised. Details of the procedure for Trowbridge are attached as Appendix 4. Information from waste hauliers and producers will be appended with a copy docket raised by the Company for each load received. This will be manually filed for a minimum period of two years.

4.4.2 To demonstrate full compliance with the Duty of Care provisions, relevant load details, including relevant Wessex Water derived analytical information, will be entered on to a "live" mainframe computer system to which each Wessex Water site has access. This system will provide a common operational database for Trowbridge and other Licensed facilities. A full audit saved by Haulier, Producer, Waste Type, Date or Analytical Parameter can be made available to the Waste Regulation Authority.

4. Emergency Procedures

4.1 Introduction

4.1.1 The objective of the tankered liquid reception facility is the safe and efficient reception of wastes from road tankers into the sewage treatment process. Significant spillages, fire or explosive hazards which could impact on the adjacent sewage treatment process, works or environment will be reported to the central Control Room and the emergency services. An emergency plan for the site has been prepared by the local Operations Manager.

4.1.2 The areas covered by these emergency procedures are:

- * Spillages from loads, hydraulic oil, fuel, battery acid, sump oils etc.
- * Fires - initial actions
- * Materials
- * Action by employees

Spillage

4.2.1 Loads

Spillages on the apron will be washed down to the tanker discharge point. In extreme circumstances the maximum volume loss could be 27 cubic metres (6,000 gallons). However, it is likely to be much less than this. Hazardous loads are not accepted at the facility therefore direct risk from spillage is low. Accidental discharge on access roads to the facility will either be contained by absorbent materials for disposal or be washed to the site drainage. This course of action is principally to protect watercourses. The threat of actual pollution to watercourses will be notified to the NRA and WRA via site management.

4.2.2 Hydraulic Oil/Sump Oil/Fuel

Minor spills (less than five gallons) will be washed down into the inlet flow. Larger spills will be contained and absorbed using proprietary absorbent materials. Disposal will be via licensed disposal routes. Overall volumes in this event are unlikely to exceed 50 gallons.

4.2.3 Battery Acid

This would be washed down into the flow or absorbed for later disposal. Volumes would be very small.

4.3 Fires

4.3.1 All buildings at the facility are normally equipped with a suitable number and type of extinguishers. Other extinguishers suitable for vehicle fires will also be maintained. Staff would only be expected to tackle minor fires as a first response where it is safe to do so. In the event of a fire not being safe to tackle successfully with equipment to hand, emergency services would be summoned direct via 999.

4.4 Materials

4.4.1 Personal protective clothing (gloves, masks, overalls, boots etc.) are available for use. Drizit or similar proprietary absorbent material in loose, pad or pillow form are stored at the site. Shovels, brooms, buckets, hoses, etc., are in daily use.

4.5. Actions by Employees

4.5.1 Operators are expected to tackle minor events independently and to use their discretion to advise the site manager of the need for further resources.

4.5.2 Tanker discharging will be suspended as soon as an incident is identified and existing tankers on site will be moved to a safe position if possible. Incoming tankers will be redirected away from the discharge point in order not to restrict emergency access or egress. Site management are to be notified as soon as possible. Events will be logged by the Operators and reported the next working day.

APPENDIX 1

Trowbridge STW - Licence Modifications

A - Waste Types and Volumes

In general, waste types and quantities will be amenable to the sewage treatment process and will not exceed the capacity of the STW to treat them.

Figures are expressed as tonnes per day, averaged over a normal 5-day working week
For all practical purposes it is assumed that 1 tonne is equivalent to 1 cubic metre

1) Sewage Wastes (not controlled)		250
2) Coded Difficult Wastes		
	Type	Max Input
Leachate/Cont. Water	J50	250
Interceptor Wastes (R20)	M40,M50,M60	45
Biodegradable Plant Sludges	Q40	45
Print Wastes	R40	25
Animal Processing (T10)	T12,T13	25
Soap and Detergents (S50)	S51,S52	25
Food Processing Wastes	T20	90
Spray Wastes (non-metallic)	R80	25

3) Other wastes deemed suitable for disposal given notification and agreement in writing from Wilts CC WRA prior to acceptance.

NB - The amounts above are maxima for each individual type of waste depending on treatability. They are not additive.

APPENDIX 1 (contd)

B - Discharge Area

In general the site plan locations are as previously supplied. The modified discharge facility is not covered by the Area B shown on the Licence but as the attached plan marked 'Waste Discharge Area'.

This area is shown in greater detail on the attached plan marked 'Trowbridge Liquid Waste Reception Facility - Layout Plan'.

Tankers sized up to 23 cu m capacity arriving via the main roadway will reverse into a concrete discharge area (1). This area will be shallow bunded against spillage escape, and drained back into the reception tanks (2). This is particularly to protect the ditch running along the fence line (3) from any potential pollution.

Tankers will gravity discharge after sampling, under operator supervision, via a coupling/standpipe arrangement to one of two tanks (4). The tanks are mainly below ground level with a shallow concrete lip. They are former lime mixing tanks and are of concrete construction with a plastic corrosion liner. They are not interconnected. These tanks will be used as balancing tanks to attenuate the waste discharge to treatment to more acceptable levels. Their nominal volume is 45 cu m each, allowing a maximum capacity of 2-3 tankers per hour. Each tank has a submersible pump which pumps flow on to treatment at a controlled rate.

Depending on the waste concerned, discharge will be made to one tank or the other on a predetermined basis for the particular load. One tank pumps to the sludge storage tanks via a rising main (5), the other to the inlet to the sedimentation tanks (6). This allows a waste to be given the most appropriate treatment depending on its origin, composition and consistency.

Waste passed direct to sludge storage mixes with primary works sludges and undergoes prolonged anaerobic digestion. The resultant digested sludge is applied to farmland in accordance with the Sludge (Use in Agriculture) Regulations 1989.

Waste passing to the primary tank inlet is considerably diluted by the incoming sewage flow, and passes to conventional sewage treatment comprising primary settlement, biological oxidation on percolating filters and secondary settlement. Sludges generated pass back for digestion, and the final effluent is discharged to river, controlled by an NRA consent.

It is not anticipated that any significant noise, fume, dust, grit or odour nuisance will be generated from this operation. The site is covered by the Town and Country Planning General Development (Amendment) Order 1990.

APPENDIX 2

DISCHARGE OF WASTE BY WESSEX WATER TANKER

1. Currently this activity principally comprises a waste stream from Bowyer's in Trowbridge, but could relate to any suitable waste covered by the Licence conditions.
2. Wessex Water Services Ltd is a Registered Waste Carrier (AVN/026579/5).
3. Tanker operations are part of the regional sludge disposal function, the relevant operational manager being the Resource Manager, C Gray, based at Yeovil office. Mr Gray is being registered with WAMITAB at the appropriate level for a provisional COTC.
4. Tanker operations staff will follow waste acceptance procedures as detailed, with the exception of discharge supervision, routine analytical checks and waste checks prior to collection and/or discharge. They will also be responsible for all Duty of Care provisions from waste collection to discharge, including transfer note control.
5. Tanker drivers will supervise waste discharges at the site from their own tankers, site staff will not necessarily need to be involved either from the site control office or site operatives.
6. Transfer note copies and load volume details will be submitted to, and retained by, the site control office together with other controlled waste records.
7. Tanker operations staff have access to the site at all times. Waste discharges under driver supervision will therefore occur on occasion outside of the normal working hours of the site.

APPENDIX 3

WASTE ACCEPTANCE PROCEDURES

1. All waste enquiries are dealt with through the LDC Manager at Avonmouth. Waste will need to pass the screening/approval tests below before formal acceptance of it by Trowbridge operational staff (as 4.3.2), subject to on-site checks on arrival and discharge as described in Appendix 4.
2. The procedure for dealing with enquiries is to determine the type, quantity and frequency of waste before any detailed analysis is required. Provided these meet with the Licence conditions, a representative sample of at least 500 ml is requested.
3. Standard analysis for waste enquiries comprises the following:

Appearance, BOD, COD, Suspended Solids, Ammonia
Total metal content for Zn, Pb, Cu, Cr, Ni, Cd and Hg
pH
Toxicological testing comprising Microtox and/or respirometry on STW biomass
4. Where appropriate to the waste more detailed analysis may be carried out:

Lindane, Phenols, GCMS solvents/organics screen, Chloride, Flashpoint

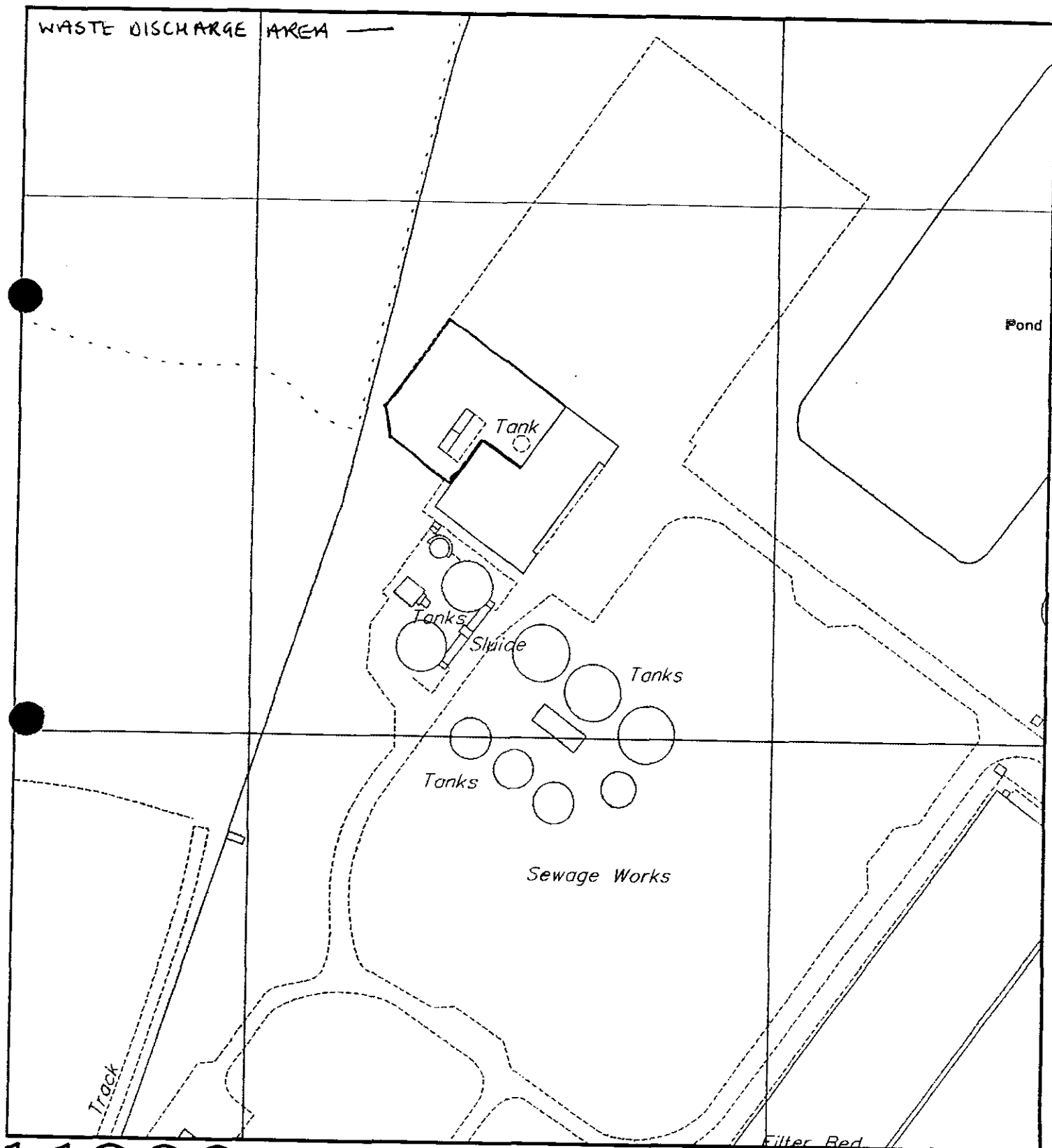
Further more specialised analysis may be carried out where unique or unfamiliar wastes are involved or the analyses above indicate potential problems.
5. Where a comprehensive analysis from a reputable laboratory is already available for the waste stream concerned, this may be taken into consideration and further sample(s) deemed unnecessary.
6. Once a proposed waste stream is fully approved by the LDC Manager it will be referred to local operational staff to be formally signed off as acceptable at Trowbridge site. Such staff have absolute discretion to accept or refuse waste at the site.

APPENDIX 4

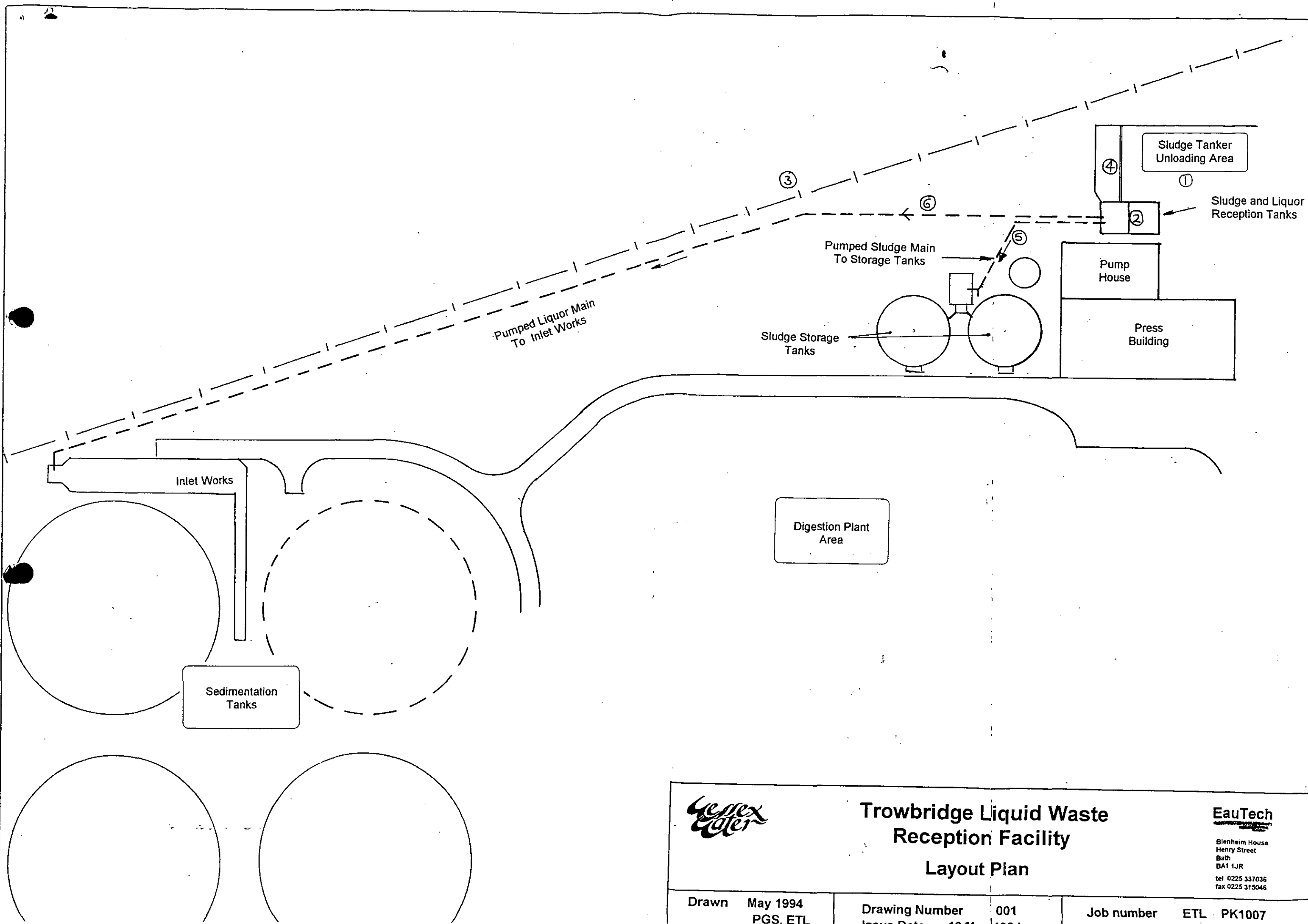
Trowbridge STW - Waste Reception Procedure


1. All waste enquiries approved under pre-acceptance procedures to receive final written approval from the local Operations Manager or Treatment Controller.
2. All controlled waste enquiries will have a unique reference number. Details of each approved waste will be faxed to Trowbridge.
3. On arrival, the tanker driver is to report to reception at the site control office. Nominated staff will then ask for Duty of Care transfer note and waste reference number.
4. Waste details, reference and enquiry details will be cross-referenced, if these match, the paperwork is returned to the driver and he is directed to report to the discharge point.
5. The site operator is then radio-paged wherever he is on site, meets the tanker at the discharge point and checks transfer note details. A core sample or back sample is taken, checked against the waste description and a pH reading obtained. Provided this falls within the site limits, the sample does not appear or smell abnormal, and no floating oil or other immiscible layer is present the tanker will gravity discharge to the relevant tank as directed by the operator.
6. If the load is not acceptable for discharge then the driver is directed back to the site control office to receive a rejection note from nominated staff. The new destination of the driver must be stated on this note and copies retained for file and for notification to the Wiltshire CC WRA.
7. Following discharge of acceptable loads, the driver returns to reception where nominated staff will complete the Duty of Care transfer note, register the load on the mainframe tankered waste system, sign and issue the subsequent printed receipt which is generated. A copy of the receipt and the transfer note is retained at the site control office.
8. Samples of each load will be retained in a one litre bottle. The Treatment Controller will then decide which samples need analysis and/or microtox testing.

WESSEX WATER SERVICES LTD
TROWBRIDGE STW
JULY 1994



1:1000 scale.



		Trowbridge Liquid Waste Reception Facility Layout Plan		EauTech Blenheim House Henry Street Bath BA1 1JR tel 0225 337036 fax 0225 315046	
Drawn	May 1994 PGS. ETL	Drawing Number	001	Job number	ETL PK1007
		Issue Date	10/11/1994		