

County Secretary
Sanitary Authority
Youghal Town Council
Youghal
County Cork



Headquarters, PO Box 3000
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21st April 2005

Reg No: 211-1

Dear County Secretary

I am to advise you that the Agency has received an application for a Waste Licence from AVR-Environmental Solutions Limited, for a facility located at AVR-Environmental Solutions Limited, Foxhole, Youghal, Co Cork.

The applicant proposes, as part of this application, to provide for the discharge of process effluent to a sewer, which the applicant has stated is vested in, or controlled by, your Council. Process effluent includes trade effluent or other matter (other than domestic sewage or storm water). I enclose copy extracts from the application form, which detail proposed discharges.

The provisions of Section 52 of the Waste Management Acts, 1996 to 2003, provides that the Agency shall obtain the consent of the sanitary authority to the proposed discharge from an activity which involves the discharge of trade effluent or other matter (other than domestic sewage or storm water), to a sewer vested in or controlled by a sanitary authority.

In order to expedite the Agency's consideration of this waste licence application, I am to request your authority's consent to the proposed discharge/s. It should be noted that, your authority's consent may be subject to such conditions as your authority considers appropriate as provided for in Section 52 of the Waste Management Acts, 1996 to 2003 and Section 99E (3) of the Environmental Protection Agency Acts, 1992 and 2003. Your attention is drawn to paragraphs (3) and (4) of the attached copy of the relevant section of the Act. For your convenience please find attached a reply form including a list of draft conditions compiled by the Agency.

In accordance with paragraph (2) of this section of the Act, you are requested to forward your response within 5 weeks of the date of this letter. Please note that any decision given after the expiry period shall be invalid and in those circumstances the Agency may proceed to determine the application concerned as if consent was obtained. Ciara Maxwell is dealing with this matter and can be contacted at the Licensing Unit, Office of Licensing & Guidance Dublin (Tel. No. 01-2680100) if you have any queries.

Your co-operation in this matter is appreciated.

Yours sincerely

Noeleen Keavey
Programme Officer
Licensing Unit
Office of Licensing & Guidance



Section 99E (3) & (4) of the Environmental Protection Agency Acts, 1992 and 2003

- (3) Subject to subsection (4), a consent under subsection (1) may be granted subject to or without conditions and if it is granted subject to conditions the Agency shall include in the licence or revised licence concerned conditions corresponding to them or, as the Agency may think appropriate, conditions more strict than them.
- (4) The conditions that may be attached to a consent by a sanitary authority under this section are the following and no other conditions, namely conditions-
- (a) relating to-
 - (i) the nature, composition, temperature, volume, level, rate, and location of the discharge concerned and the period during which the discharge may, or may not, be made,
 - (ii) the provision, operation, maintenance and supervision of meters, gauges, manholes, inspection chambers and other apparatus and other means for monitoring the nature, extent and effect of emissions,
 - (iii) the taking and analysis of samples, the keeping of records and furnishing of information to the sanitary authority,
 - (b) providing for the payment by the licensee to the sanitary authority concerned of such amount or amounts as may be determined by the sanitary authority having regard to the expenditure incurred or to be incurred by it in monitoring, treating and disposing of discharges of trade effluent, sewage effluent and other matter to sewers in its functional area or a specified part of its functional area,
 - (c) specifying a date not later than which any conditions attached under this section shall be complied with,
 - (d) relating to, providing for or specifying such other matter as may be prescribed.

SANITARY AUTHORITY RESPONSE

re: SECTION 52 OF THE WASTE MANAGEMENT ACTS, 1996 to 2003

Name & Address of Sanitary Authority: Youghal Town Council, Youghal, County Cork, , .

Waste Reg. No. 211-1

Waste Facility: AVR-Environmental Solutions Limited, Foxhole, Youghal, Co Cork,

Waste Licence Applicant: AVR-Environmental Solutions Limited

Consent: Indicate Yes to one of the following statements:

Consent granted subject to the consent conditions outlined below	
Consent granted without conditions	
Consent refused ^{Note 1}	

Note 1 Where it is proposed to refuse permission the reasons for the refusal should be clearly outlined in the response.

GENERAL CONSENT CONDITIONS	Condition to be included (Yes/No)
1. No specified emission from the installation shall exceed the emission limit value set out in <i>Schedule B: Emissions Limits to Sewer</i> . There shall be no other emission to sewer of environmental significance.	
2. The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as out in <i>Schedule C</i> .	
3. Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.	
4. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the process effluent, and to take samples of the process effluent.	
5. All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.	
6. The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.	
7. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.	
8. The licensee shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.	
9. In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Agency, Local Authority and Sanitary Authority as soon as practicable after the incident.	

ADDITIONAL GENERAL CONSENT CONDITIONS
in respect of discharges or emissions to sewers, in accordance with Section 52
of the Waste Management Acts, 1996 to 2003
(specify, if required)

Limit Values for Process Effluent to Sewer

Schedule B: Emission Limits

Waste licence application Register No. 211-1

Emission Point Reference No: _____

Emission to (*sewer description*): _____

Volume to be emitted: Maximum in any one day: _____ m³

Maximum rate per hour: _____ m³

Parameter <i>(delete parameters which are not applicable)</i>	Emission Limit Value	
	Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
BOD		
COD		
Suspended Solids		
PH		
Temperature		
ADDITIONAL PARAMETERS <i>(if required)</i>		

Frequency of Monitoring Process Effluent to Sewer

Schedule C

Waste Licence application Register No. 211-1

Emission Point Reference No: _____

Parameter <i>(delete parameters which are not applicable)</i>	Monitoring Frequency <i>(e.g. monthly, quarterly, annually)</i>	Sampling Type <i>(grab, composite)</i>
Flow to sewer		
Temperature		
pH		
BOD		
COD		
Suspended Solids		
ADDITIONAL PARAMETERS		
<i>(if required)</i>		

SANITARY AUTHORITY CHARGES	
Charge per cubic metre of process effluent (per s52 of the Waste Management Acts, 1996 to 2003)	
Payment Frequency	
Annual Monitoring Costs	

Signed on behalf of Youghal Town Council

_____ Date _____

Waste Licence Application for AVR-Environmental Solutions Ltd., Reg 211-1

Relevant extracts from application documentation to attach to the S52 Consent Notice:

- Table E.3 (i) Emissions to Sewer – location, volume, periods of emission
- Table E.3(ii) Emissions to Sewer – Characteristics of the emission
- Excerpts from EIS, Chapter 5 Water
 - 5.3. Impact Assessment
 - 5.4 Mitigation Measures
- Drawing Number 2004_121 Services_Plan_B2(c) - in colour
- Drawing Number 04409-213 Rev. A Sewerage & surface water drainage infrastructure (sheet 1 of 6) – in colour
- Drawing Number 04409-217 Rev. A Sewerage & surface water drainage infrastructure (sheet 5 of 6)

Wastewater discharges will adhere to the following typical values (Table 5.4 Expected Effluent Treatment Parameters). However, these limits will be set by the EPA in agreement with Youghal Town Council.

Parameter	Unit	Values
pH		6-9
Total Suspended Solids	mg/l	30
Temperature	°C	<25
BOD	mg/l	20

Table 5.4 Expected Treated Effluent Parameters

5.4 Mitigation Measures

Storm Waters

Surface water runoff from paved and roofed areas will be collected via the site drainage system. The total area of hardstanding at the site will be approximately 12,500m². The entire site shall be bunded using kerbing to prevent the uncontrolled escape of storm water. Four Class One type oil and grit interceptors or similar will be installed with a 120m³ Storm Water Retention Tank with a monitoring well so that contaminates and or spilled hydrocarbons. ?

A sluice valve will control discharge of the storm waters to the outfall via the Youghal Town Council sewer network. The monitoring well will ensure that discharges are within acceptable emission limit values, again these limits will be set by the EPA in agreement with Youghal Town Council. In the event on an incident with potential for contamination of surface waters (e.g. spillage), the sluice valve will close preventing any discharge from the site.

Foul Waters

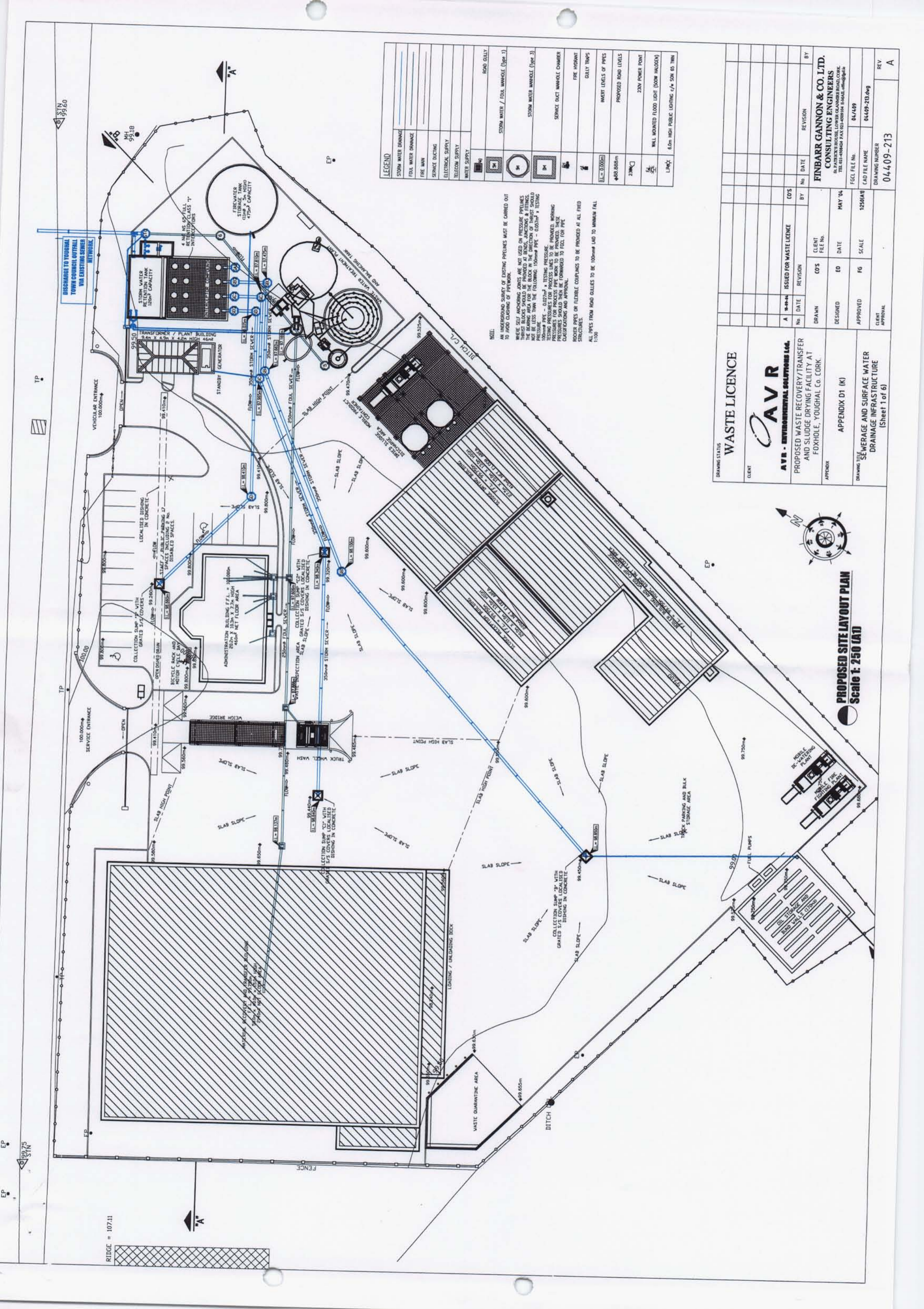
These waters shall be collected in the site foul water system and transported to the waste water treatment plant for treatment.

Process Waters

The only process water on-site shall be the final effluent from the waste water treatment plant. This effluent shall be monitored so that it is within the emission limit values set by the EPA. Monitoring shall be carried out at a frequency, to be specified by the EPA. The impact of the plant output on the river flow rate is negligible and therefore does not require mitigation.

Fire Waters

In the event of an incident, for example a fire, the potential contaminated waters will be collected through the storm water drainage system with the entire site acting as a large bunded area using the raised kerbing as an extra backup measure. Fire water will be stored in the Firewater Retention Tank which has a capacity of 475m³ as a back-up measure to the water mains. Any spent fire water will then be treated at the waste water treatment plant.



LEGEND

	STORM WATER DRAINAGE
	FOUL WATER DRAINAGE
	FIRE MAIN
	SERVICE DUCTING
	ELECTRICAL SUPPLY
	TELECOM SUPPLY
	WATER SUPPLY
	STORM WATER / FOUL MANHOLE (Type 1)
	STORM WATER MANHOLE (Type 3)
	SERVICE DUCT MANHOLE CHAMBER
	FIRE HYDRANT
	GULLY TRAPS
	INVERT LEVELS OF PIPES
	PROPOSED ROAD LEVELS
	200V POWER POINT
	WALL MOUNTED FLOOD LIGHT (500W HALOGEN)
	6.0m HIGH PUBLIC LIGHTING (1/4 SW 65 TMM)

NOTE:
 AN UNDERGROUND SURVEY OF EXISTING PIPELINES MUST BE CARRIED OUT TO AVOID CLASHING OF PIPEWORK.
 THESE GUT ARCHING SPACES ARE NOT USED ON PRESSURE PIPELINES. THIRST BLOCKS SHOULD BE INSTALLED IN THE DIRECTION OF FLOW. THE BEARING AREA FOR THE BLOCK IN THE DIRECTION OF FLOW SHOULD NOT BE LESS THAN THE FOLLOWING: 150mm² PPE - 0.057m² TESTING 100mm² PPE - 0.027m² TESTING PRESSURE TESTING PRESSURES FOR PROCESS PIPE LINES TO BE PROVIDED. WORKING PRESSURES FOR PROCESS PIPE WORK TO BE PROVIDED. THESE CLASSIFICATIONS AND APPROVALS.
 ROOFER PIPES OR FLEXIBLE COUPLINGS TO BE PROVIDED AT ALL FIXED STRUCTURES.
 ALL PIPES FROM ROAD GULLIES TO BE 100mm LAD TO MINIMUM FALL 1:100










WASTE LICENCE		AVR		AVR - ENVIRONMENTAL SOLUTIONS LTD.	
PROPOSED WASTE RECOVERY/TRANSFER AND SLUDGE DRYING FACILITY AT FOXHOLE, YOUGHAL CO. CORK		APPENDIX D1 (K)		DRAWING TITLE: SEWERAGE AND SURFACE WATER DRAINAGE INFRASTRUCTURE (Sheet 1 of 6)	
CLIENT	APPENDIX	APPENDIX	APPENDIX	APPENDIX	APPENDIX
DRAWING STATUS	WASTE LICENCE	APPENDIX	APPENDIX	APPENDIX	APPENDIX
NO.	DATE	ISSUED FOR WASTE LICENCE	CO'S	BY	NO.
A	14-11-14				
DRAWN	CO'S	REVISION	CO'S	FILE NO.	BY
DESIGNED	EO	DATE	MAY 04		
APPROVED	FG	SCALE	1:250 (A1)		
CLIENT APPROVAL					
DRAWING NUMBER	04409-213				
REV	A				



PROPOSED SITE LAYOUT PLAN
 Scale 1:250 (A1)

RIDGE = 107.11

Legend

-  Existing Telephone Line
-  Existing Water Main
-  Existing Town Council Sewer
-  Proposed Telephone Line
-  Existing Overhead Powerline
-  Proposed Water Main
-  Proposed Connection to Sewer
-  Proposed Power Connection
-  Site Boundary of Activity (Identical to Planning Application Boundary)

National Grid Reference
2079E, 7977N



Title: Services Plan B2 (c)

Client:
AVR - Environmental Solutions Ltd.

Drawing No:
2004_121 Services_Plan_B2(c)

Drawing Status: Issue

Drawn by: SC

Checked by: COC

Approved by: AF

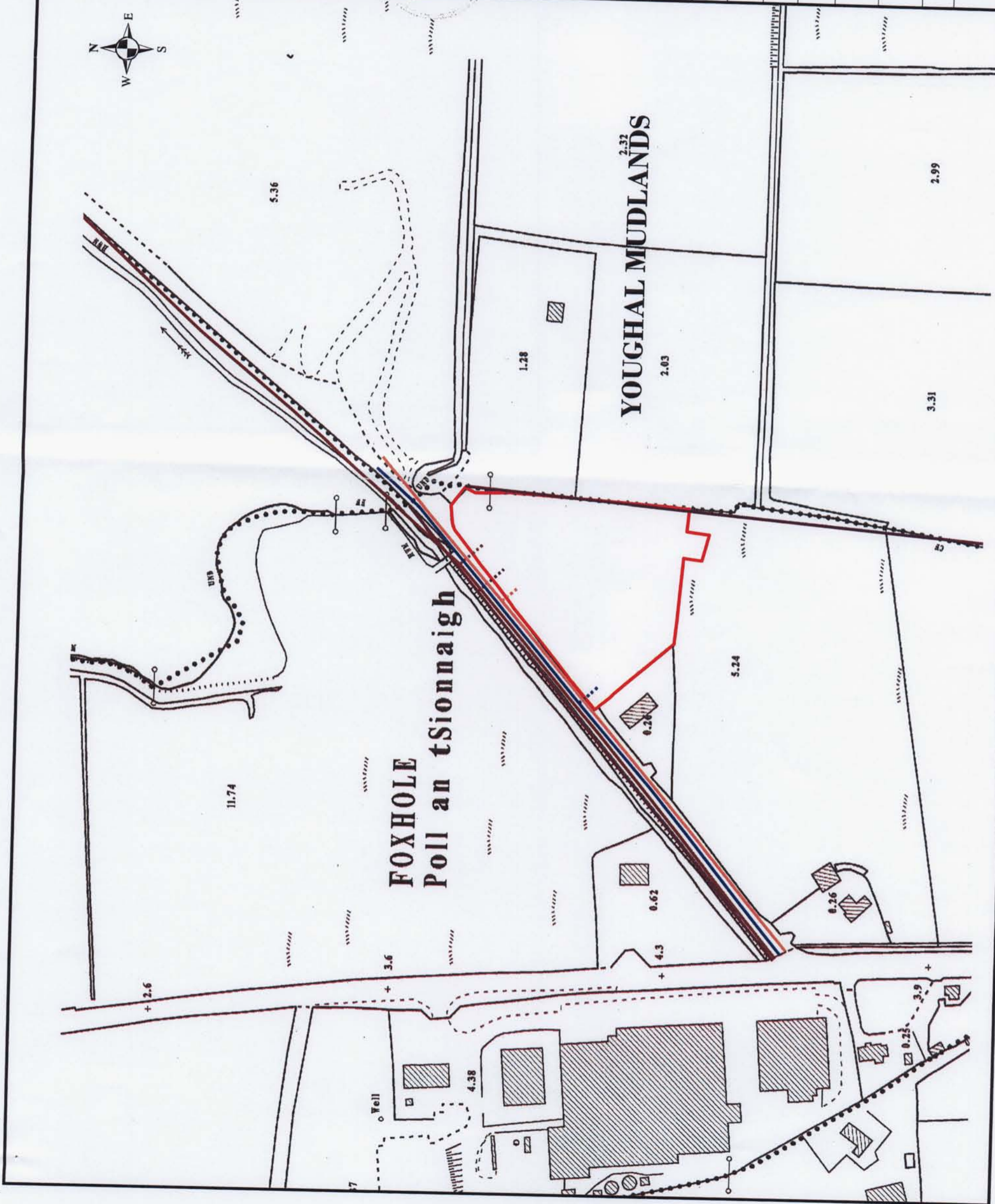
Project Ref: 2004_121

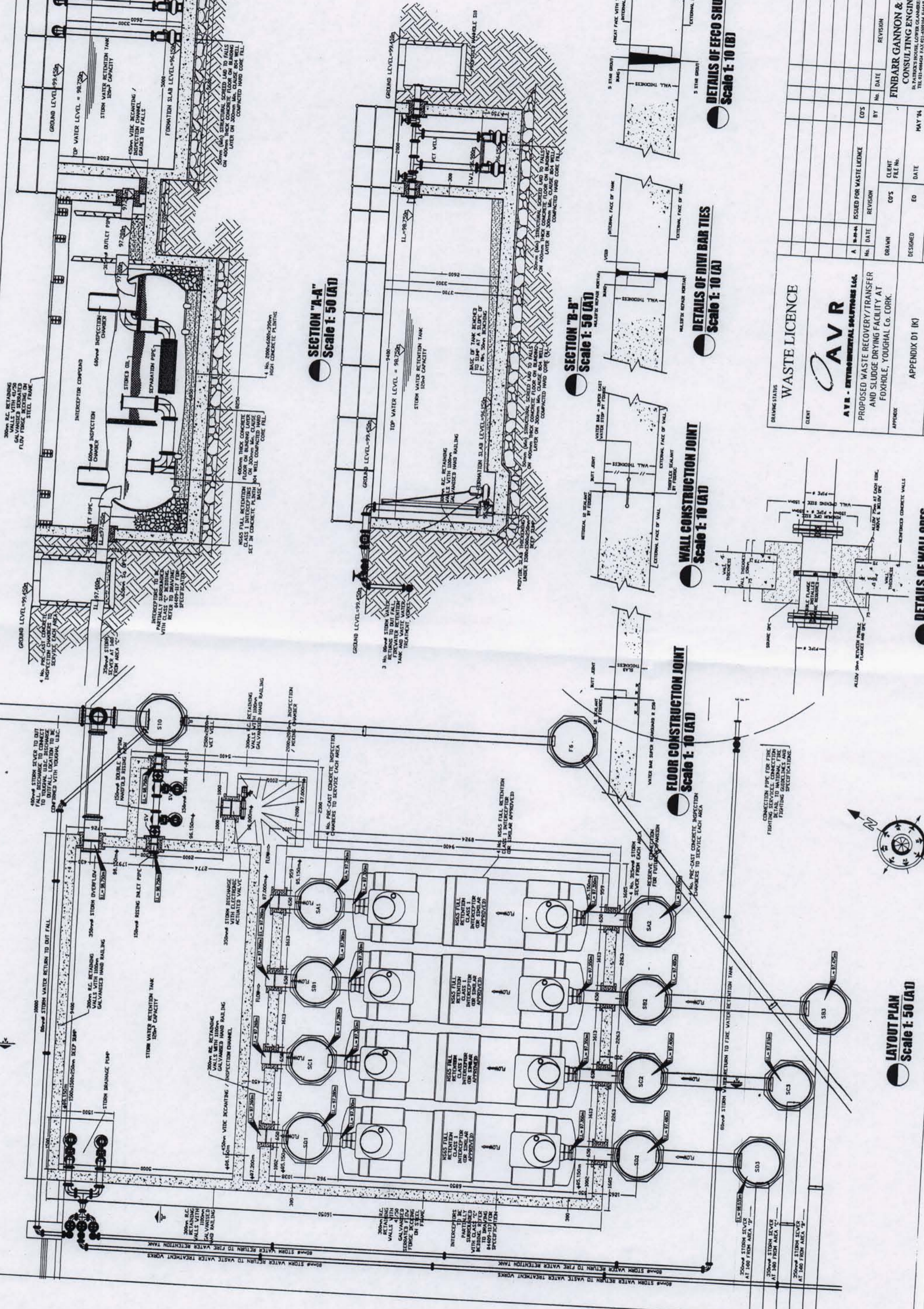
Ordnance Survey Ireland
License No: AR 0017004

OSi 1:2500 Sheet No's:
6253-C 6253-D

Scale: 1:2,500 (25")

SWS Environmental Services,
Shinagh House,
Bandon,
Co. Cork





LAYOUT PLAN
Scale 1: 50 (A1)

SECTION "A-A"
Scale 1: 50 (A2)

SECTION "B-B"
Scale 1: 50 (A3)

WALL CONSTRUCTION JOINT
Scale 1: 10 (A4)

FLOOR CONSTRUCTION JOINT
Scale 1: 10 (A5)

DETAILS OF DIVI BAR TIES
Scale 1: 10 (A6)

DETAILS OF EFCO SHUTTER TIE
Scale 1: 10 (A7)

DETAILS OF WALL OPES
Scale 1: 10 (A8)

DRAWING STATUS			WASTE LICENCE		
NO.	DATE	BY	NO.	DATE	BY
A	18-04-94	ISSUED FOR WASTE LICENCE	CO'S		
			REVISION		
			CLIENT FILE NO.		
			DESIGNED	ED	DATE
			APPROVED	PG	SCALE
			CLIENT APPROVAL		

AVR
AVR - ENVIRONMENTAL SOLUTIONS LTD.
PROPOSED WASTE RECOVERY/TRANSFER AND SLUDGE DRYING FACILITY AT FOXHOLE, YOUGHAL CO. CORK.APPENDIX D1 (K)

SEWERAGE AND SURFACE WATER DRAINAGE INFRASTRUCTURE (Sheet 5 of 6)

FINBARR GANNON & CO. LT
CONSULTING ENGINEERS
15 PARKVIEW HOUSE, LOWER CLANMONEY ROAD, CO. DUBLIN 15.
TEL: 01-453-6000 FAX: 01-453-6004 EMAIL: info@fgc.ie

FECI FILE NO. 04/49
CAD FILE NAME 04499-217.dwg
DRAWING NUMBER 04.4.09-217



TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the emission (1 table per emission point)

Emission point reference number: _____ SE1 _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	Typical expected mg/l	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
BOD				1200	100				
pH				3 - 10	6 - 9				
Toxicity				not applicable	< 10				
TSS				300	100				
TDS				6000	7500				
Nitrogen				40	35				
Ammonia				20	10				
Phosphorous				20	10				
Copper				.05	5				
Chlorides				100	1000				
Zinc				1	.5				
Nickel				.01	2				
Cyanide				.5	2				