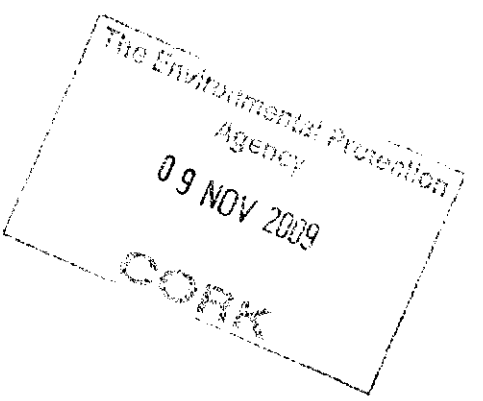
Sub No (14)

Atlantic Shellfish Ltd.

The Thatched Cottage, Penberth, St. Buryan,
Penzance, Cornwall TR19 6HJ.

Tel: + 44 1736 810659
e-mail: david@oysters.co.uk

Ms. Ann Marie Donlon,
Inspector,
Office of Climate, Licensing and Resource Use,
Environmental Protection Agency,
Regional Inspectorate,
Inniscarra,
Co. Cork,
Ireland.



5th November 2009

Dear Ms Donlon,

Midleton WWTP Waste Water Discharge Licence Application D0056-01

Further to my letter of 26th October, I hoped it might be helpful to you to have better copies of the material I referred to than the rather poor scanned copies, which you have kindly put up on the web, and I will chance our postal strike and enclose them now.

Should you have any queries, please contact me by e-mail, but could you please note that it would be best for me to receive anything by post to this address in the UK as I am more often here than in Cork.

With best wishes.

Yours sincerely,

D.Ll.Hugh-Jones

Copy for Mr Hugh-Jones
26/07/04.

(1)

FOOD STANDARDS AGENCY
SCOTLAND
Buidheann Inbhe-Bidhe an Alba

Mr John Gorman
Senior EPO
SEPA
Newton Stewart Office
Penkiln Bridge Court
Minnigaff
Newton Stewart
DG8 6AA

Our ref: 92/03/02

24th June 2004

Dear Mr Gorman,

Proposed new Stranraer wastewater treatment works affecting Loch Ryan
The Food Safety (Fishery Products and Live Shellfish) (Hygiene) Regulations 1998

I write in relation to the above proposal about which you have sought our comments
The Food Standards Agency Scotland is the Central Competent Authority under Directive 91/492 and The Food Safety (Fishery Products and Live Shellfish) (Hygiene) Regulations 1998. The Agency is responsible under these Regulations for classifying shellfish harvesting production areas according to the degree of e.coli found within the shellfish flesh.

The area of Loch Ryan is a classified shellfish harvesting area for Native Oysters and has been a classified area for many years.

FSAS cannot speculate as to the impact this waste water treatment works may have on the area. However, filter feeding bivalve molluscan shellfish can accumulate human pathogenic micro organisms and may present a risk to health when consumed raw or lightly cooked. Such pathogens may be naturally occurring marine micro organisms or microbiological contaminants introduced via sources of pollution. It is also known from research in this area that the standard commercial depuration cycle which is applied to shellfish reduces bacterial load very effectively but demonstrates poor removal of viruses. It is also most likely that the shellfish harvested from the classified area i.e Oysters will be consumed raw of lightly cooked.

My opinion therefore is that any additional risk generated by this treatment works be quantified and ideally eliminated. Any managed risk level must be determined to be entirely effective at all times. This could be important to protect the public health interest and the current status of Loch Ryan which is currently classified as an 'A' January to April and a 'B' May to December

6th Floor, St. Magnus House, 25 Guild Street, Aberdeen AB11 6NJ
Tel: 01224 285114 Fax: 01224 285110 Email: lorna.murray@foodstandards.gsi.gov.uk
Our Website address is: www.food.gov.uk

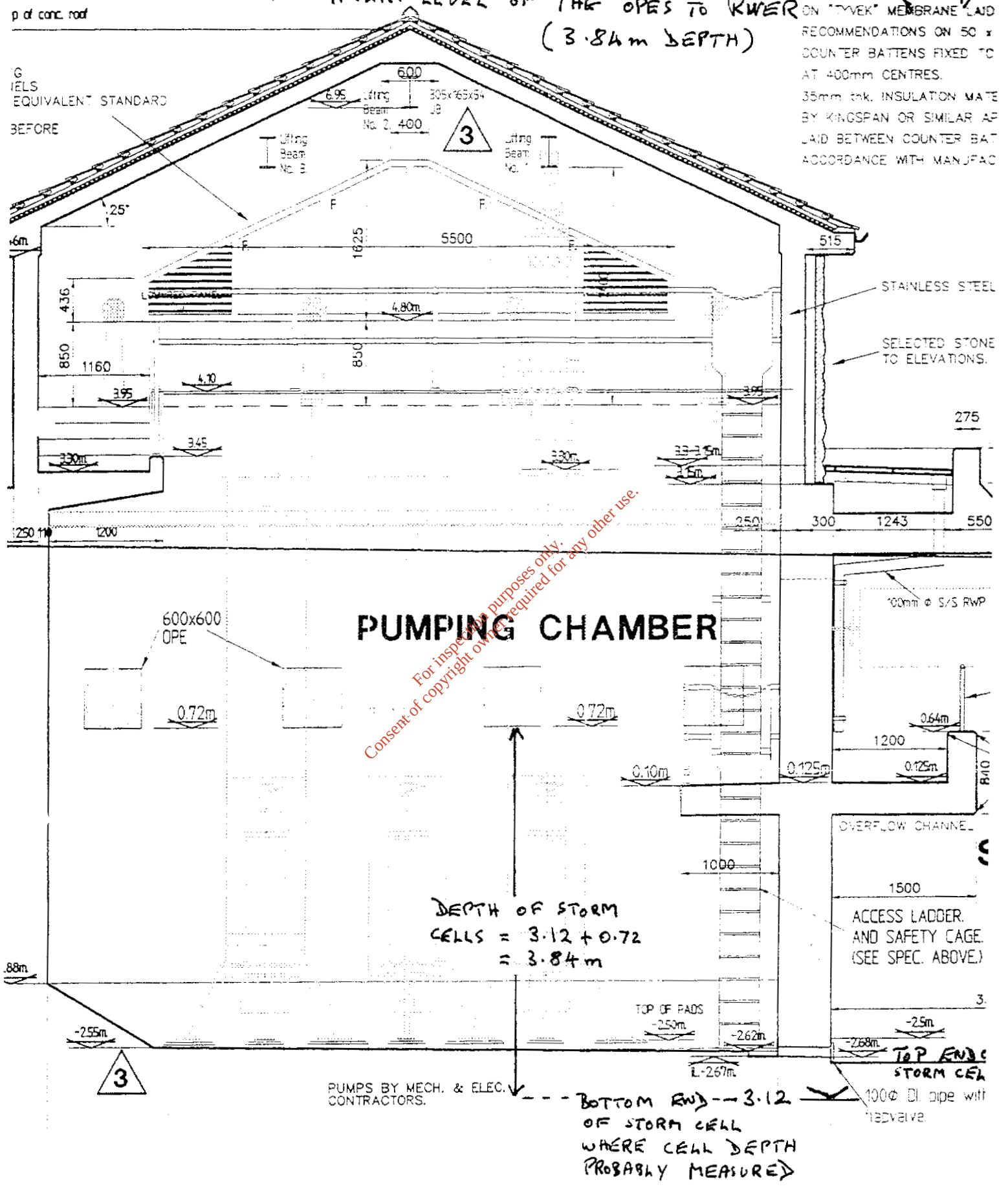
I enclose a history of e.coli results from the Loch Ryan area for your interest and would be happy to provide you with any other information which may assist you in dealing with this application.

Yours sincerely

Lorna Murray
Senior Executive Officer
Food Law Enforcement Branch

BAILICK 1 PUMPING CHAMBER SHOWING AT WHAT DEPTH IN THE STORM CELLS EFFLUENT WILL REACH THE INVERT LEVEL OF THE OPES TO RWER (3.84m DEPTH)

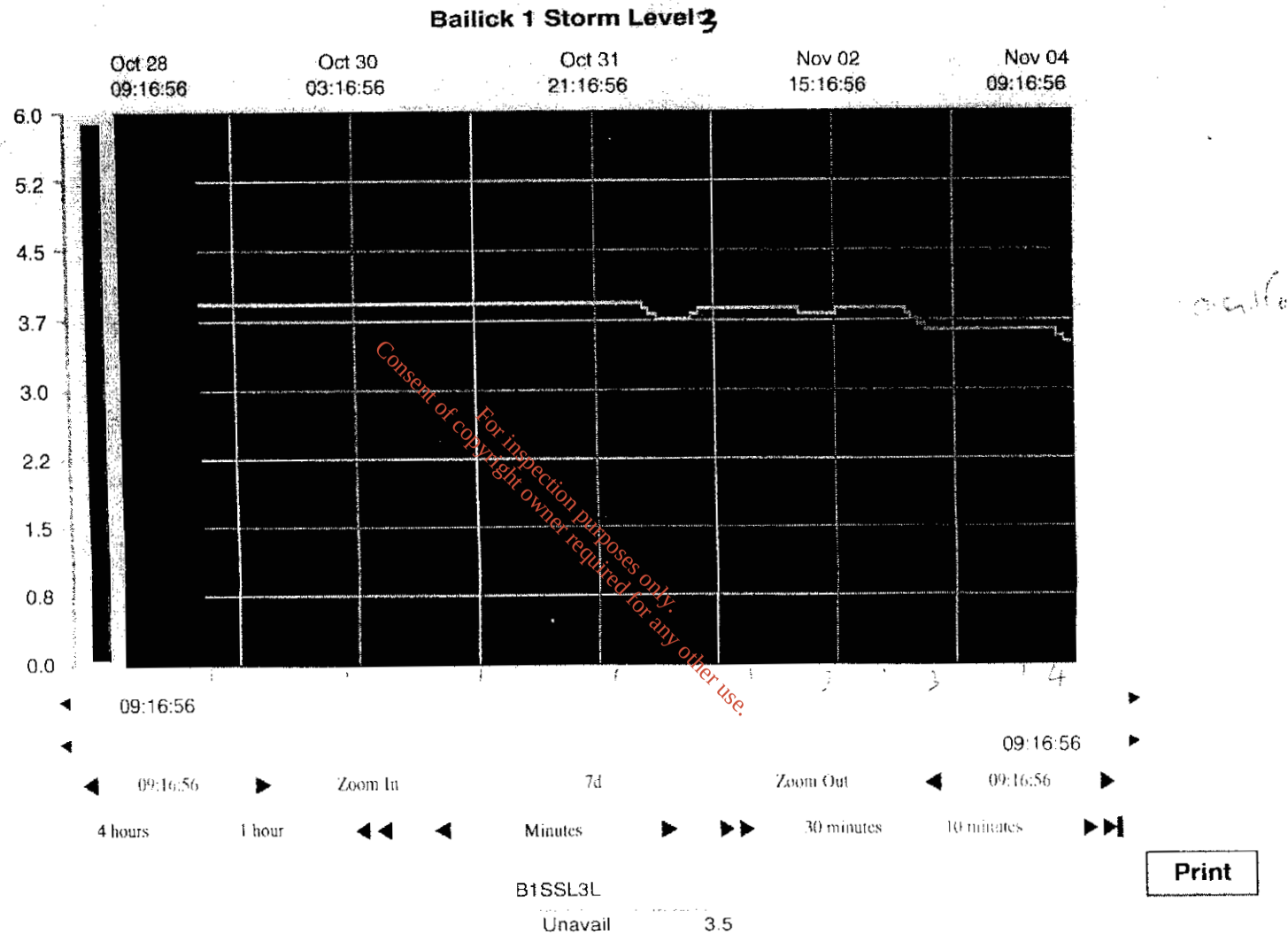
(2)



PAUGE AND NOT LESS THAN
FIXED TO 50 x 25mm SOFTW
IN ACCORDANCE WITH MANUF
ON "TYVEK" MEMBRANE LAID
RECOMMENDATIONS ON 50 x
COUNTER BATTENS FIXED TO
AT 400mm CENTRES.
35mm thk. INSULATION MATE
BY KINGSPAN OR SIMILAR AP
LAID BETWEEN COUNTER BAT
ACCORDANCE WITH MANUFAC

DRAWING No. 128 REV. 4

(3)(1)

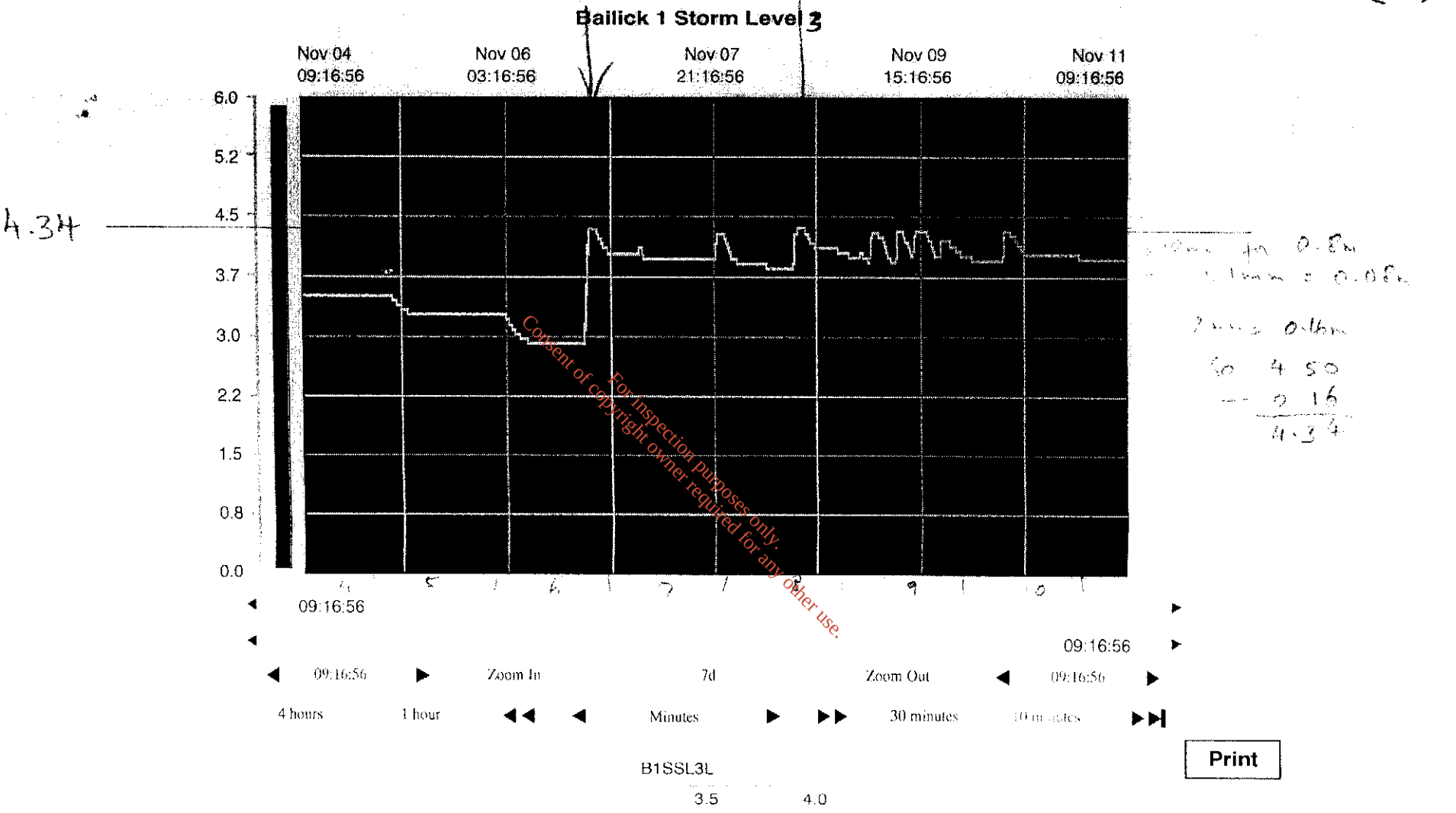


(3)

(3)(2)

Rain
14.4mm

Nov 8
15.8mm



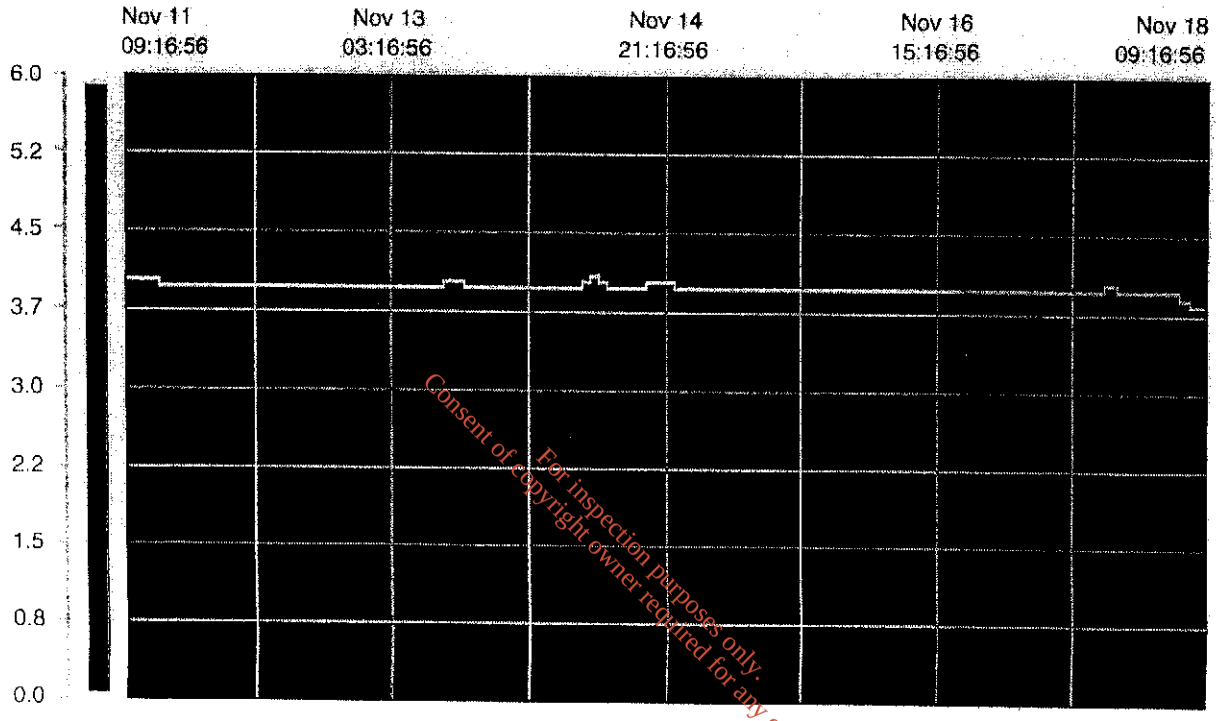
4.34

0.8m
0.06m
0.14m
4 50
2 16
4.34

(3.2)

(3)(3)

Bailick 1 Storm Level 3



09:16:56

09:16:56

09:16:56 Zoom In 7d Zoom Out 09:16:56

4 hours 1 hour Minutes 30 minutes 10 minutes

Print

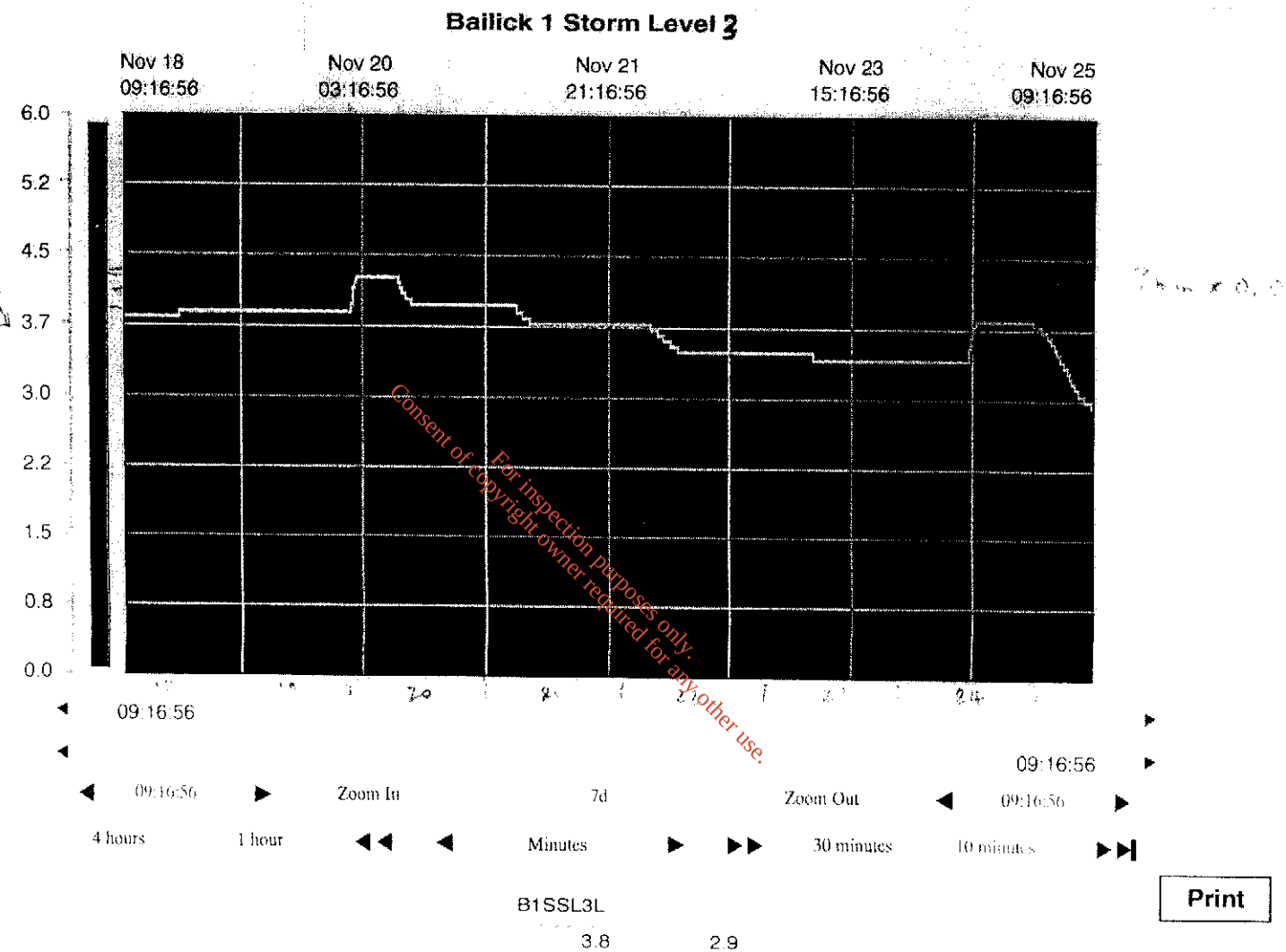
B1SSL3L

4.0 3.8

(3.3)

(3)(4)

Omm rain showing.



would leave high tide mark at 4.3 - overflowed by 300mm

4 50
0.26m
4.26m

(3.4)

Storm overflows pumped to river from Ballick 1 — November 2006.

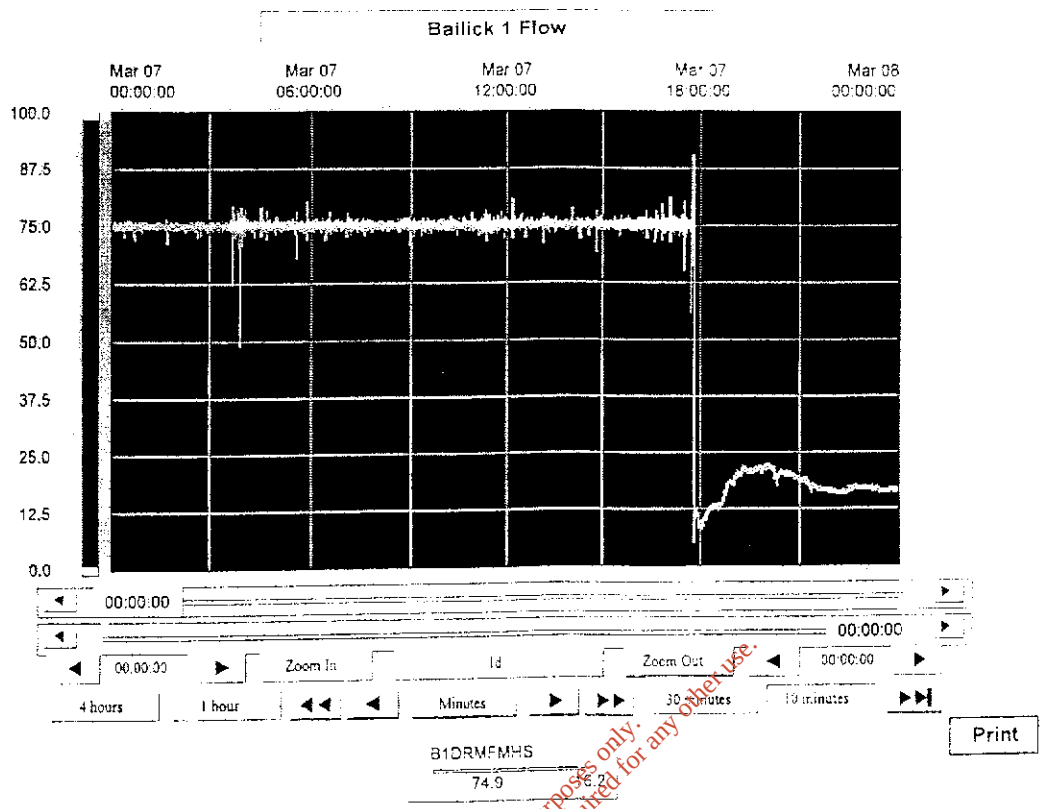
(4)

Date	Volume pumped to river from Ballick No. 1 pumphouse m³	Volume pumped to river from Ballick No. 2 pumphouse m³	Volume pumped to river from Ballinacurra No. 2 pumphouse m³	Total volume of storm effluent pumped to river m³	Volume pumped to treatment plant m³	Total volume arising in scheme; storm + treated effluent m³	Storm discharge as percent of total volume %	Ballick No.1: storm pump No.1: hours run	Ballick No.1: storm pump No.2: hours run	Ballick No.1: storm pump No.3: hours run	PumpingCapacity m³/hr	Ballick No.2: storm pump No.1: hours run	Ballick No.2 storm pump No.2 hours run	PumpingCapacity m³/hr	B.nacurra No. 2: storm pump No.1: hours run	B.nacurra No. 2: storm pump No. 2: hours run	PumpingCapacity m³/hr	Ballick No. 1 domestic to treatment plant m³	Ballick No. 2 domestic to treatment plant m³
01 Nov 06	297.00	94	0	391	#VALUE!	#VALUE!	#VALUE!	0.06	0.04	0.05	1980.00	0.13	0.00	720.00	0.00	0.00	630.00	#VALUE	871.00
02 Nov 06	378.20	72	0	448	#VALUE!	#VALUE!	#VALUE!	0.06	0.07	0.08	1980.00	0.10	0.00	720.00	0.00	0.00	630.00	#VALUE!	873.00
03 Nov 06	316.80	223	0	540	#VALUE!	#VALUE!	#VALUE!	0.06	0.04	0.06	1980.00	0.31	0.00	720.00	0.00	0.00	630.00	#VALUE!	937.00
04 Nov 06	633.60	497	0	1,130	6,302	7,432	16	0.09	0.12	0.11	1980.00	0.69	0.00	720.00	0.00	0.00	630.00	5830.00	472.00
05 Nov 06	1128.00	778	0	1,906	7,378	9,284	22	0.30	0.17	0.10	1980.00	1.08	0.00	720.00	0.00	0.00	630.00	6995.00	181.00
06 Nov 06	138.60	446	0	585	7,306	7,891	8	0.00	0.01	0.06	1980.00	0.62	0.00	720.00	0.00	0.00	630.00	6312.00	994.00
07 Nov 06	478.20	367	0	842	7,043	7,885	11	0.00	0.11	0.13	1980.00	0.51	0.00	720.00	0.00	0.00	630.00	5953.00	1090.00
08 Nov 06	495.00	360	0	855	7,633	8,488	11	0.09	0.08	0.08	1980.00	0.50	0.00	720.00	0.00	0.00	630.00	6494.00	1139.00
09 Nov 06	388.40	779	0	1,127	6,539	7,666	16	0.06	0.08	0.08	1980.00	1.07	0.00	720.00	0.00	0.00	630.00	6434.00	105.00
10 Nov 06	0.00	533	0	533	6,787	7,320	8	0.00	0.00	0.00	1980.00	0.74	0.00	720.00	0.00	0.00	630.00	6484.00	103.00
11 Nov 06	673.20	396	0	1,069	7,367	8,436	13	0.10	0.12	0.12	1980.00	0.55	0.00	720.00	0.00	0.00	630.00	6601.00	766.00
12 Nov 06	380.00	382	0	738	6,261	6,999	11	0.07	0.00	0.05	1980.00	0.53	0.00	720.00	0.00	0.00	630.00	5968.00	293.00
13 Nov 06	0.00	382	0	382	6,060	6,442	6	0.00	0.00	0.00	1980.00	0.53	0.00	720.00	0.00	0.00	630.00	5863.00	197.00
14 Nov 06	0.00	158	0	158	7,247	7,405	2	0.00	0.00	0.00	1980.00	0.22	0.00	720.00	0.00	0.00	630.00	6482.00	765.00
15 Nov 06	436.80	1,123	0	1,559	6,313	7,870	23	0.07	0.08	0.07	1980.00	1.56	0.00	720.00	0.00	0.00	630.00	6307.00	4.00
16 Nov 06	11998.80	2,282	0	14,281	5,774	20,055	80	2.01	2.00	1.96	1980.00	3.17	0.00	720.00	0.00	0.00	630.00	5746.00	28.00
17 Nov 06	3801.00	389	0	4,250	6,963	11,213	39	0.65	0.66	0.64	1980.00	0.54	0.00	720.00	0.00	0.00	630.00	5772.00	1191.00
18 Nov 06	1841.40	346	0	2,187	7,937	10,124	22	0.31	0.31	0.31	1980.00	0.48	0.00	720.00	0.00	0.00	630.00	7171.00	766.00
19 Nov 06	1425.60	202	0	1,627	7,118	8,745	19	0.23	0.23	0.23	1980.00	0.28	0.00	720.00	0.00	0.00	630.00	6279.00	839.00
20 Nov 06	3424.80	1,246	0	4,770	6,324	11,094	43	0.60	0.60	0.58	1980.00	1.73	0.00	720.00	0.00	0.00	630.00	5988.00	136.00
21 Nov 06	2237.40	734	0	2,972	6,937	9,909	30	0.37	0.38	0.38	1980.00	1.02	0.00	720.00	0.00	0.00	630.00	5960.00	177.00
22 Nov 06	1901.80	446	0	2,348	7,193	9,501	25	0.31	0.32	0.31	1980.00	0.62	0.00	720.00	0.00	0.00	630.00	6403.00	790.00
23 Nov 06	3803.60	1,174	0	4,757	7,213	11,970	44	0.62	0.62	0.57	1980.00	1.63	0.00	720.00	0.00	0.00	630.00	6666.00	547.00
24 Nov 06	2673.00	1,181	0	3,854	6,638	10,492	41	0.44	0.45	0.45	1980.00	1.64	0.00	720.00	0.00	0.00	630.00	6436.00	202.00
25 Nov 06	6178.80	1,238	0	7,515	8,733	16,248	58	0.95	1.12	0.90	1980.00	1.72	0.00	720.00	0.00	0.00	630.00	7354.00	1379.00
26 Nov 06	1901.80	266	0	1,791	7,213	9,004	20	0.30	0.00	0.39	1980.00	0.37	0.00	720.00	0.00	0.00	630.00	6007.00	1206.00
27 Nov 06	3426.40	684	0	4,109	7,411	11,520	36	0.58	0.58	0.57	1980.00	0.95	0.00	720.00	0.00	0.00	630.00	6171.00	1218.00
28 Nov 06	2946.20	457	0	3,416	7,362	10,798	33	0.51	0.53	0.50	1980.00	0.51	0.00	720.00	0.00	0.00	630.00	6248.00	1134.00
29 Nov 06	2436.00	713	0	3,148	7,125	10,273	33	0.41	0.41	0.41	1980.00	0.99	0.00	720.00	0.00	0.00	630.00	6424.00	737.00
30 Nov 06	2088.20	281	0	2,340	7,743	10,083	24	0.34	0.35	0.35	1980.00	0.39	0.00	720.00	0.00	0.00	630.00	6502.00	1241.00
Totals	57459.60	18129.60	0.00	75589.20	#VALUE!	#VALUE!	#VALUE!	9.67	9.82	9.53		25.18	0.00		0.00	0.00		#VALUE!	21167.00

(5.1)

Investigation re March 7th/8th 2009 B.1 pump stoppage

(1/7/09 3H.1)



16 hours with very reduced flow

from 75 l/s to 16 l/s = drop of 59 l/s

$\frac{59 \times 3600}{1000}$ m³/h = 212 m³/h

for 16 hours = 16 × 212 = 3,400 m³

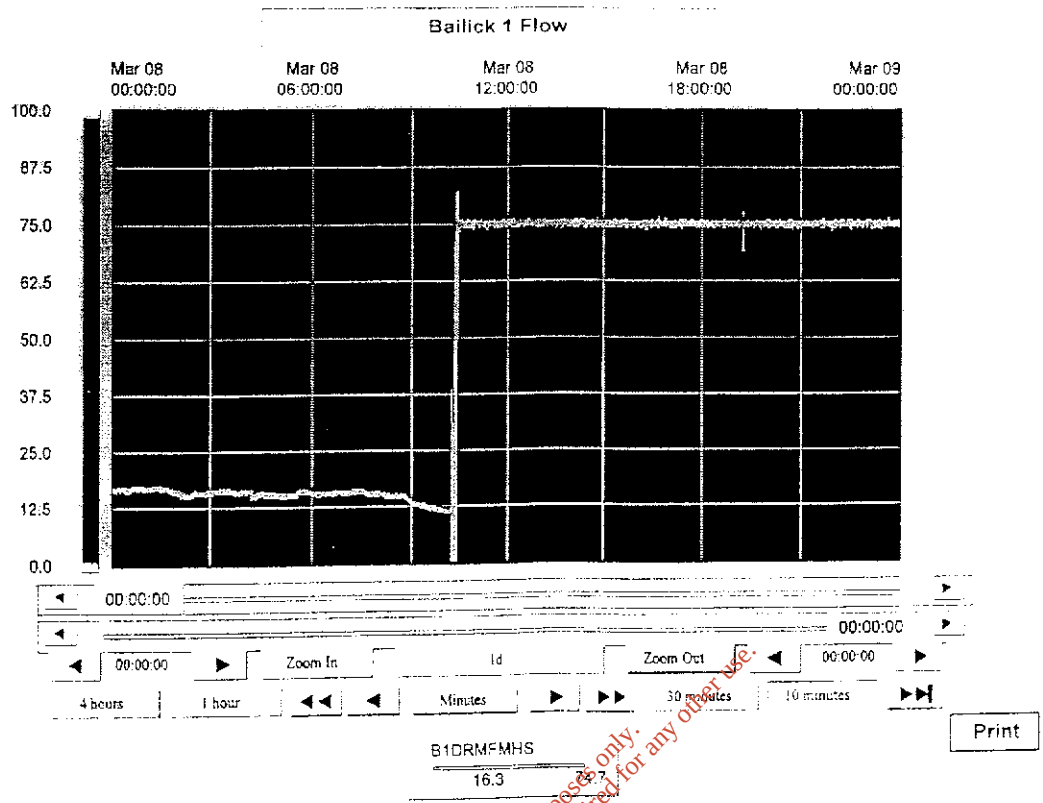
Storm overflows recorded on 8th/9th were 1,148 + 356 m³

= 1,504 m³

Therefore amount overflowing by gravity = 3400 − 1504

= 1896 m³

(5.2)



(This is the third, final, cell) — Time

Depth

7.5mm ≡ 0.8m

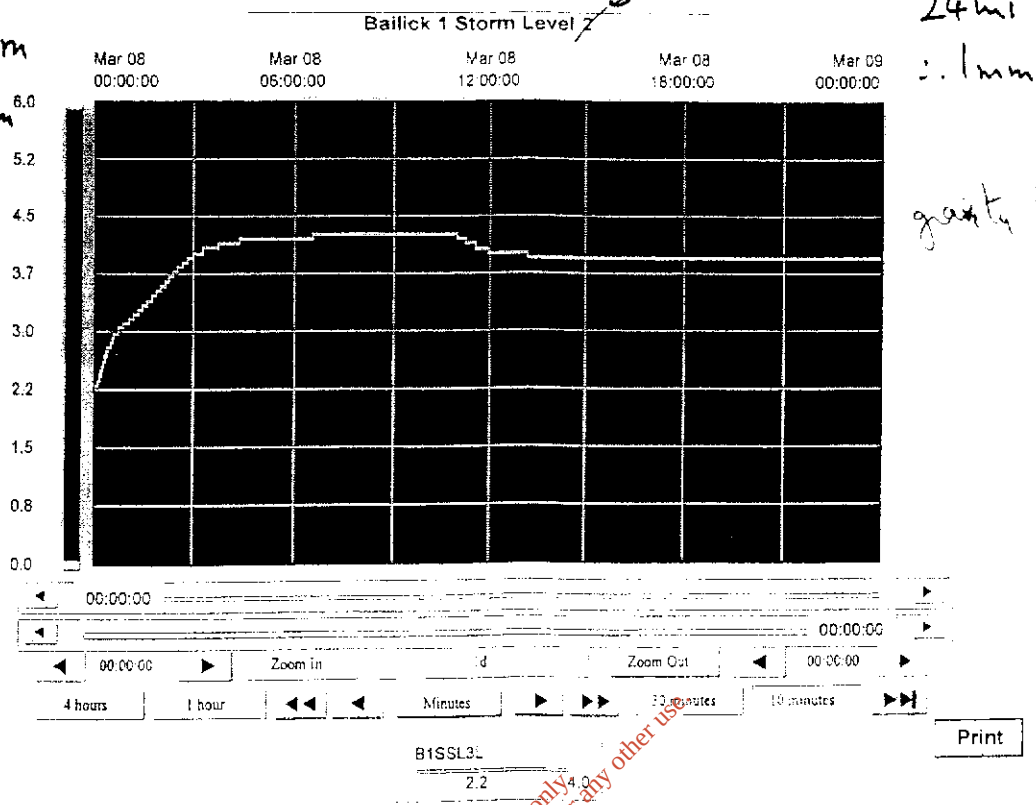
∴ 1mm = 0.107m

4.29

24hrs = 104 mm

∴ 1mm = 0.23hrs

gravity? How much



Highest depth 3.7m + (5.5mm × 0.107) = 4.29m for 4.6hrs

Height above ope invert = 4.29 − 3.84 = 0.45 (1.46ft)

From Tideflex graph, flow = 79m³/hr

Next depth 3.7 + (4.5mm × 0.107) = 4.18m for 2.8hrs

Height above ope invert = 4.18 − 3.84 = 0.34 (1ft)

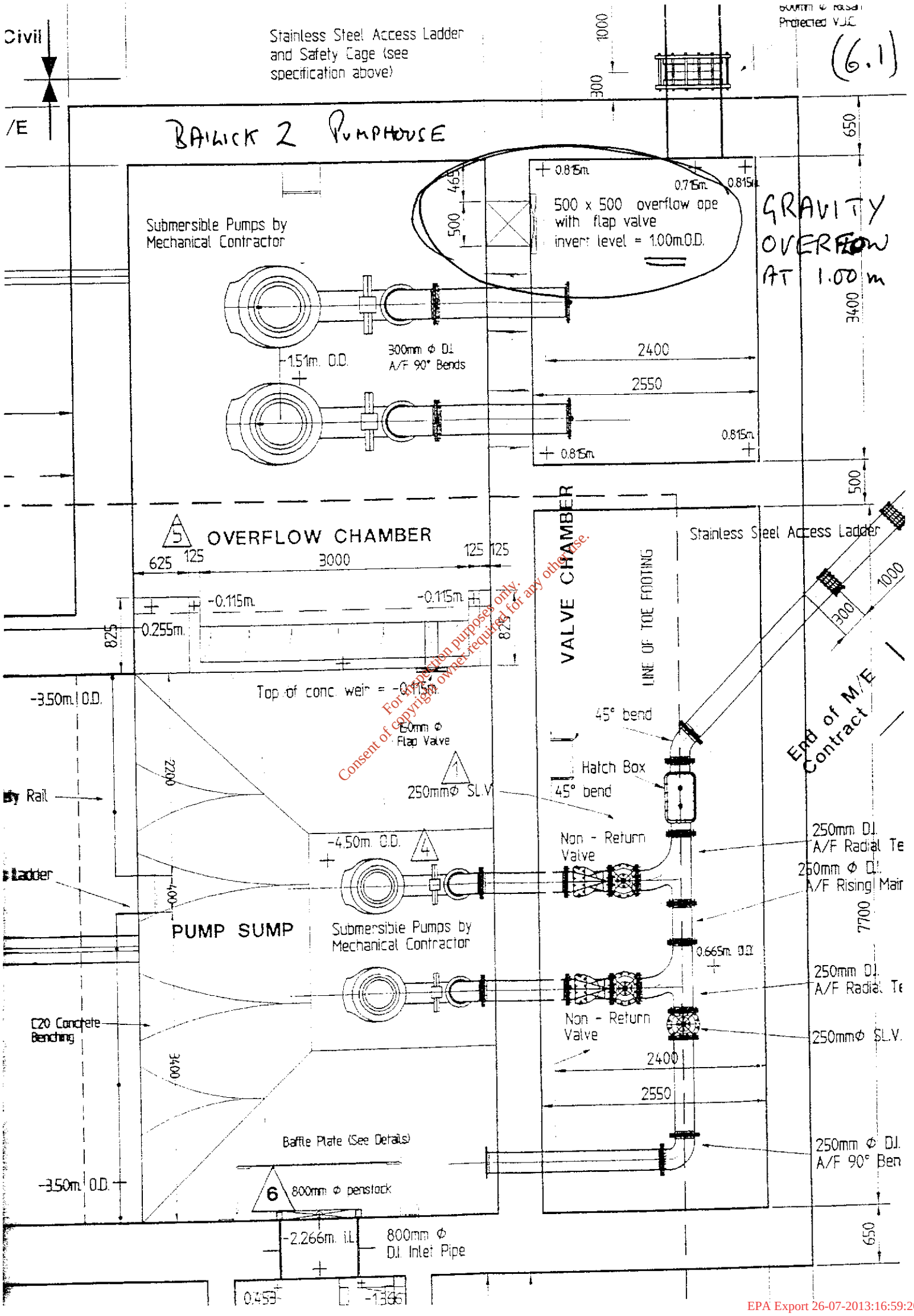
From Tideflex graph, flow = 43m³/hr.

Gravity overflow at 4.29m depth 79m³ × 4 opes × 4.6hrs = 1454

at 4.18m depth 43m³ × 4 opes × 2.8hrs = 482

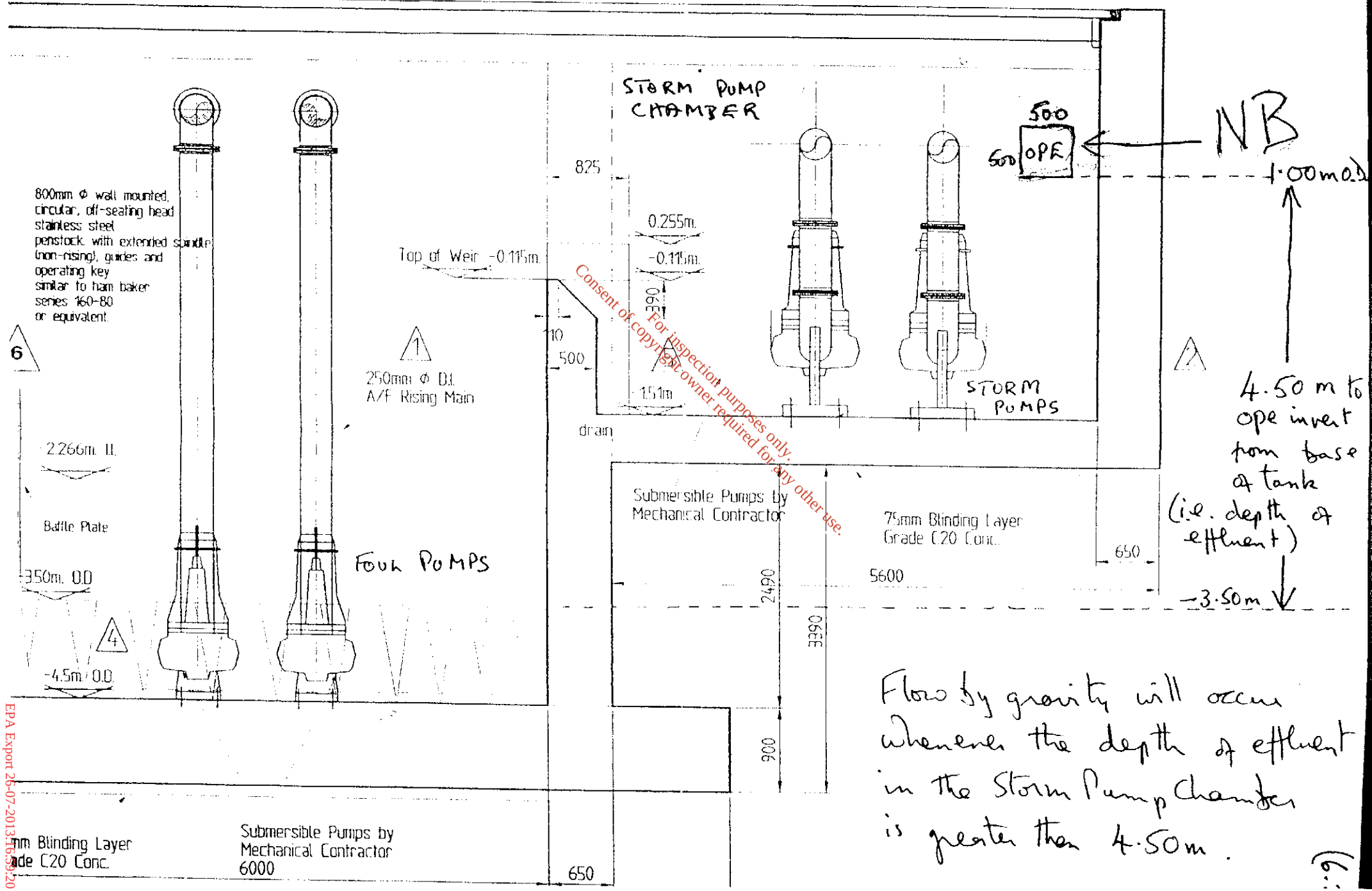
1936m

Difference with calculation from storm overflow & drop in flow = 40m³, or 2% error



(6.2)

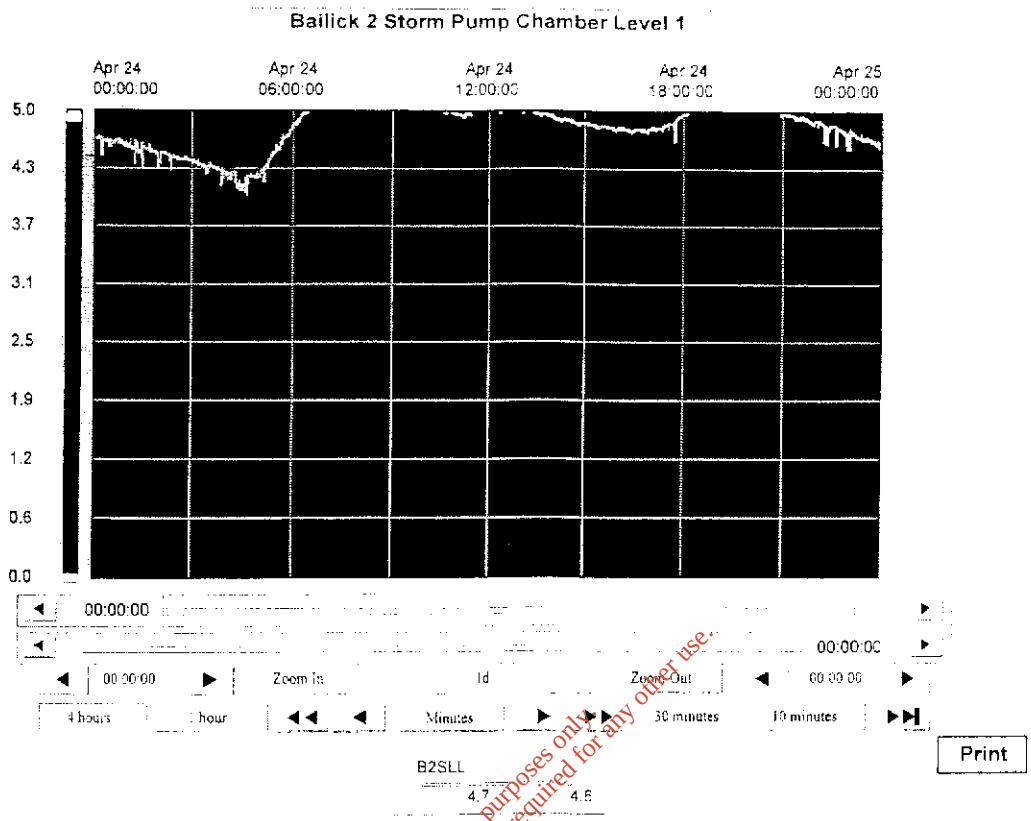
BALLICK 2 SUBMERSIBLE PUMPING STATION TO SHOW LEVEL OF GRAVITY OVERFLOW OPE



43m³ overflows recorded by the storm pumps

(7)

2009



(8)

Comhairle Contae Chorcaí
Cork County Council

County Hall,
Cork, Ireland.
Tel: (021) 4276891 • Fax: (021) 4276321
Web: www.corkcoco.ie
Halla an Chontae,
Corcaigh, Éire.
Fón: (021) 4276891 • Faics: (021) 4276321
Suíomh Gréasáin: www.corkcoco.ie

Mr. David Hugh-Jones,
Atlantic Shellfish Ltd.,
Rossmore,
Carrigtwohill,
Co. Cork.

10th March 2008

Our Ref: **08/0017/FOI**
Your Ref: **Midleton Sewerage Scheme**

Dear Mr. Hugh Jones,

I refer to the request that you made under the *Freedom of Information Act 1997* and the *Freedom of Information (Amendment) Act 2003* for access to records held by Cork County Council.

I made a final decision on your request on 10th March 2008. I am the person handling your request; should you have any queries regarding this FOI request, please put them in writing to me. I will seek to answer any questions you may have.

In response to your request, I have decided to grant those items for which I have records. There are other items for which no records exist or for which records cannot be released. This letter details a breakdown of my decision and contains the following:-

- A schedule of all of the records covered by your request;
- Concerning records to which access is granted, a statement of the arrangements for this access, its form and the fee required to be paid;
- Concerning records to which access is denied, the giving of the relevant findings, particulars and reasons for these decisions; and
- A statement of how you can appeal this decision should you wish to do so.

(8.2)

Comhairle Contae Chorcaí
Cork County Council

County Hall,
Cork, Ireland.
Tel: (021) 4276891 • Fax: (021) 4276321
Web: www.corkcoco.ie
Halla an Chontae,
Corcaigh, Éire.
Fón: (021) 4276891 • Faics: (021) 4276321
Suíomh Gréasáin: www.corkcoco.ie

1. Schedule of records

The schedule is attached at the end of this letter. It describes each document, and indicates whether the document is released in full ('R') or not released (NR) etc.

2. Arrangements for access/fee to be paid/form of access

You have sought access to the records by means of photocopies, and I have found that this is an appropriate form of access in this case.

The records described as 'R' (released in full) are available for you to review subject to the following condition:

that you pay a fee in the amount of €15.68 which amount is calculated on this basis – 0.04c for each page of photocopying, €10.16 per CD.
You have submitted a blank cheque to cover this fee. This amount will be entered on the cheque and the money will be lodged.

Should you not agree that the above fee is appropriate, you may make an appeal on this point as noted below under heading 4. A copy of section 47 of the FOI Act is enclosed for your reference. This is the section of the Act, which details its fee requirements.

3. Findings, particulars and reasons for decisions to deny access

Item 10 – As already stated in the reply to your last FOI request, the agreement for running Midleton WWTP forms part of the East Cork Operate Contract. You have inspected these documents twice now and requested information subsequent to this which was released to you.

Waste Water Discharge Licence Application

Item 11 – The statement regarding loss of nitrates and phosphorous from farm land has been taken from the EPA's report on water Quality in Ireland 2001- 2003. However the reference in the report is more general than specific to the Owenacurra Estuary and the section in the application will be revised to reflect this.