

Fermoy WWTP Discharge 2009

Sample Date	15/01/2009	11/02/2009	19/02/2009	05/03/2009	02/04/2009	21/04/2009	04/06/2009	09/07/2009	30/07/2009	13/08/2009	01/10/2009	21/10/2009	17/11/2009	26/11/2009	Mean 2009	UWW Reg Values
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent		
Sample Code	GT046	mallow lab	GT230	GT322	GT469	mallow lab	GT807	GT852	GT929	GT995	GT1204	GT1204	GT1368	GT1431		
Flow M ³ /Day	4335	*	4211	*	3070	*	3223	3039	3459	3332	2943	5825	4154	6190	3980.090909	
pH	7.5	7.5	7.5	*	*	7.5									7.5	
Suspended Solids mg/L	9.0	5.0	7.0	8.0	14.0	8.2	10.0	<2.5	<2.5	<2.5	3.0	8.0	9.0	8.0	8.109090909	35
BOD mg/L	3.0	3.0	4.0	4.0	3.0	4.0	2.0	2.0	3.0	3.0	2.0	4.0	2.0	2.0	2.928571429	25
COD mg/L	25	11	<21	<21	31	21	<21	21	<21	23	21	<21	<21	<21	21.85714286	125
TN-N mg/L	6.2	*	10.3	8.4	7.9	6.2	6.2	*	9.4	11.3	*	*	8.09	10.48	8.696666667	15
OP04-P mg/L	*	0.51	*	*	*	0.6	*	*	*	*	*	*	*	*	0.555	
TP-P mg/L	1.2	0.66	<0.3	0.6	<0.20	0.8	1.03	0.67	0.212	1.34	0.579	0.314	0.335	0.428	0.680666667	
Conductivity at 20°C uS/cm	*	780	*	*	*	732	*	*	*	*	*	*	*	*	756	
Ammonia -N mg/l	*	0.15	*	*	*	0.2	*	*	*	*	*	*	*	*	0.175	

Fermoy WWTP Discharge 2010

Sample Date	21/01/2010	11/02/2010	10/03/2010	15/04/2010	13/05/2010	03/06/2010	01/07/2010	05/08/2010	23/09/2010	28/10/2010	04/11/2010	14/12/2010	Mean 2010
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	
Sample Code	GU002	GU078	GU160	GU237	GU339	GU383	GU472	GU565	GU695	GU798	GU861	GU945	
Flow M ³ /Day	7041	4387	3223	4578	3108	2881	4352	2056	3833	4165	4303	3231	3929.8333
Suspended Solids mg/L	4	12	8	10	10	<2.5	8	7	8	5	4	<2.5	7.6
BOD mg/L	2	2	1	2	4	3	4	3.9	3	2.7	1.8	2.3	2.6416667
COD mg/L	<21	<21	<21	31	29	22	<21	26	30	<21	22	<21	26.666667
TN-N mg/L	8.29	14.66	8.08	9.35	8.07	4.68	3.57	9.87	9.75	7.04	8.39	10.34	8.5075
TP-P mg/L	<0.05	0.15	0.08	0.07	0.27	0.18	0.13	0.13	0.14	0.07	0.08	0.09	0.1263636

Fermoy WWTP Discharge 2011

Sample Date	18/01/2011	03/02/2011	03/03/2011	07/04/2011	11/05/2011	Mean Value
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	
Sample Code	GV003	GV044	GV147	GV254	GV364	
Flow M ³ /Day	5858	3820	*	3157	5107	4485.5
Suspended Solids mg/L	11	6	7	7	3	6.8
BOD mg/L	4	2.6	3	3.3	1.8	2.94
COD mg/L	<21	24	25	26	<21	25
TN-N mg/L	5.58	8.12	10.61	8.95	6.07	7.866
TP-P mg/L	0.17	0.24	0.41	0.49	0.11	0.284



SW8
 Ø300mm FROM COMBINED SEWER
 OVERFLOW
 E: 180936
 N: 098498

SW5
 Ø750mm FROM COMBINED SEWER
 OVERFLOW
 E: 181191
 N: 098622

SW7
 Ø375mm FROM COMBINED SEWER
 OVERFLOW
 E: 181217
 N: 098500


SW4
 Ø300mm COMBINED SEWER
 OVERFLOW
 E: 181232
 N: 098624
 (Secondary Discharge Point)

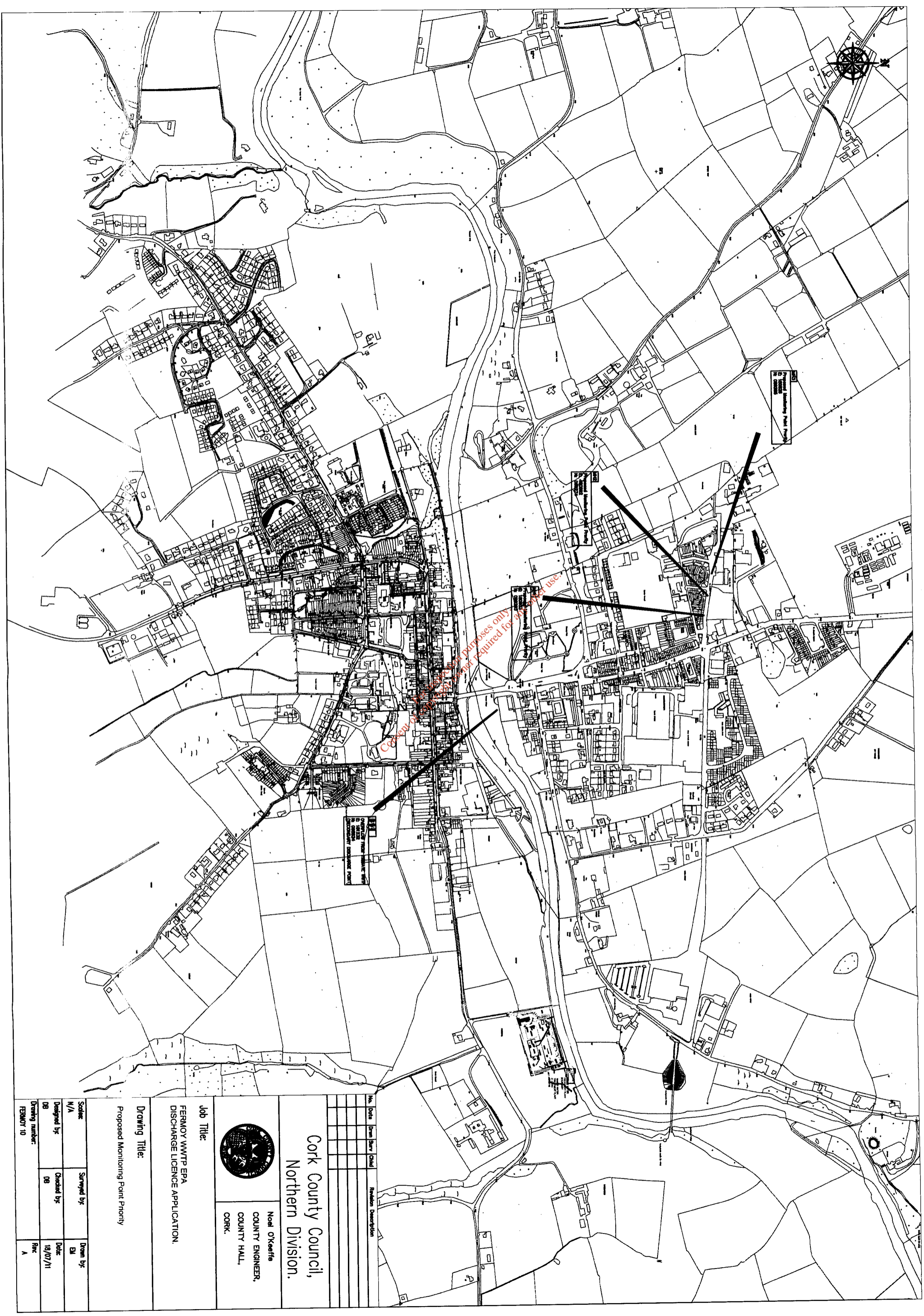
SW6
 Ø450mm FROM COMBINED SEWER
 OVERFLOW
 E: 181400
 N: 098557

SW3
 RATHALEY ROAD PS
 Ø750mm COMBINED SEWER
 OVERFLOW
 E: 181462
 N: 098719

SW2
 FERMOY WWTP
 STORM WATER OUTFALL
 Ø750mm COMBINED SEWER
 E: 182193
 N: 098780

*Proposed only
 Consent required for any other use*

 <p>Cork County Council, Northern Division.</p>		<p>Noel O'Keefe COUNTY ENGINEER, COUNTY HALL, CORK.</p>	
<p>Job Title: FERMOY WWTP EPA DISCHARGE LICENCE APPLICATION.</p>			
<p>Drawing Title: Attachment B4 - Combined Sewer Overflows.</p>			
<p>Scale: N/A</p>	<p>Designed by: DB</p>	<p>Surveyed by: DB</p>	<p>Drawn by: DB</p>
<p>Drawing number: FERMOY 08</p>	<p>Checked by: DB</p>	<p>Date: 18/07/11</p>	<p>Rev:</p>



Proposed Monitoring Point Priority
10

Proposed Monitoring Point Priority
10

Proposed Monitoring Point Priority
10

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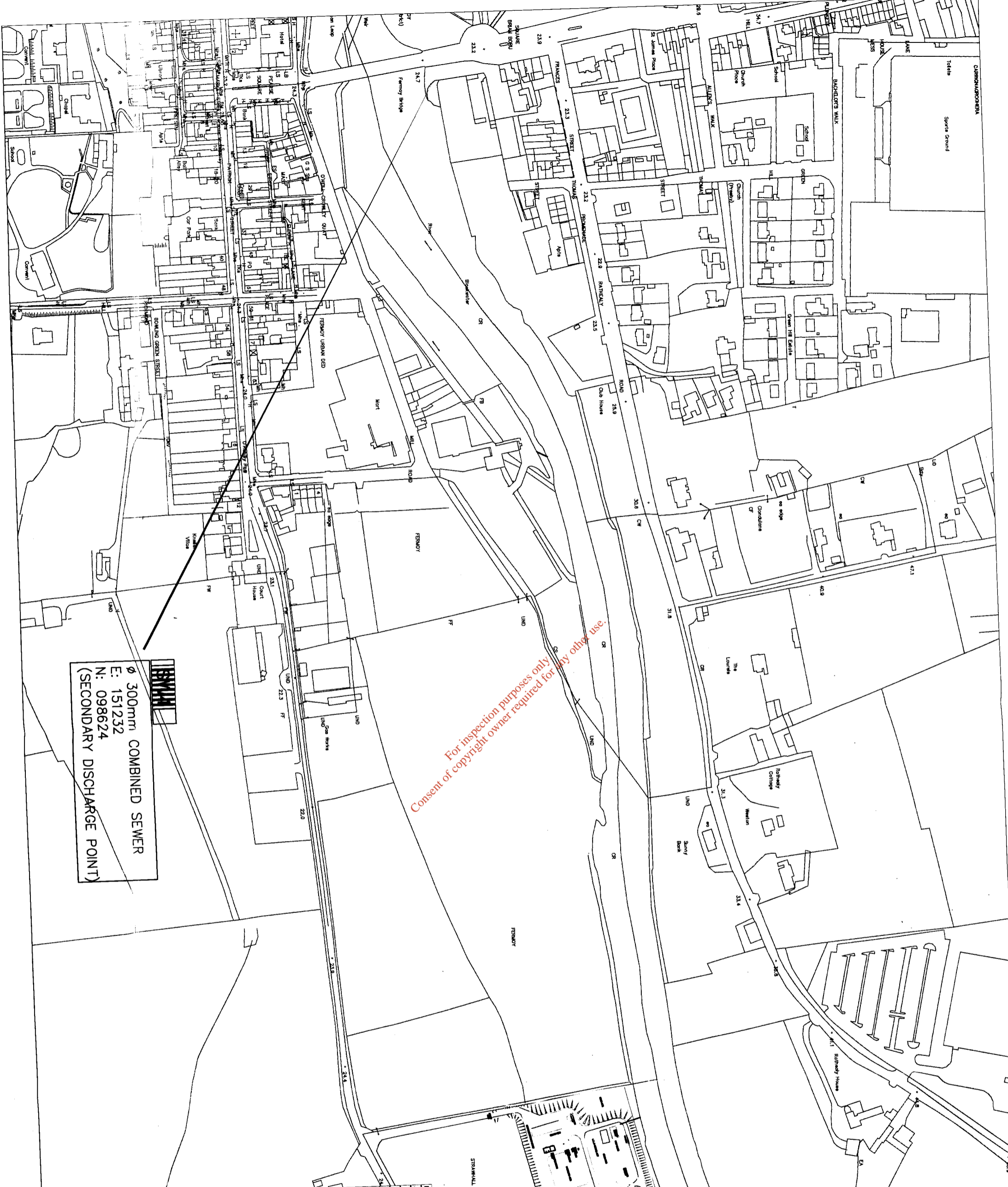
Neal O'Keefe
COUNTY ENGINEER,
COUNTY HALL,
CORK.


Job Title:
FERMOY WWTP EPA
DISCHARGE LICENCE APPLICATION.

Drawing Title:
Proposed Monitoring Point Priority

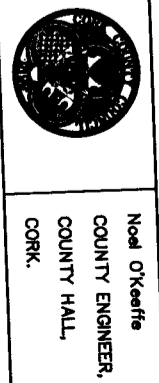
No.	Date	Drawn	Shew	Check	Revision	Description

Scale:	N/A	Surveyed by:	BI	Drawn by:	BI
Designed by:	DB	Checked by:	DB	Date:	18/07/11
Drawing number:	FERMOY 10	Rev:	A		




 Ø 300mm COMBINED SEWER
 E: 151232
 N: 098624
 (SECONDARY DISCHARGE POINT)

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Noel O'Keefe
 COUNTY ENGINEER,
 COUNTY HALL,
 CORK.

Job Title:
 FENNOY WWTP EPA
 DISCHARGE LICENCE APPLICATION.

Drawing Title:
 Attachment B4 -
 Location of Secondary
 Discharge Point

No. 07/11/07	Date	Drawn by	DB
07/11/07	Date	Checked by	DB
08	Date	Drawn by	DB
08	Date	Checked by	DB
08	Date	Drawn by	DB
08	Date	Checked by	DB
08	Date	Drawn by	DB
08	Date	Checked by	DB