

A.1 Non-Technical Summary

1. WASTE WATER DISCHARGE LICENCE (BACKGROUND)

Mayo County Council, Aras an Chontae, Castiebar, County Mayo is making an application to the Environmental Protection Agency (E.P.A.) for a Waste Water Discharge Licence, for the Charlestown / Bellaghy Waste Water Treatment Plant & Agglomeration, in compliance with the Waste Water Discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007).

Under Schedule 2 of the above regulations, the prescribed date for submission of Waste Water Discharge Licence Applications for agglomerations (with discharges with a population equivalent of 1001 PE to 2000 PE) is Feb 27th 2009. The waste water works at Charlestown falls under this category, presently having an agglomeration with a population equivalent of 1200 PE, and a BOD load of 92kg/day.

The Charlestown / Bellaghy Sewerage Scheme is currently served by a combined wastewater treatment collection system with a secondary treatment plant located to the North West of the town. It consists of preliminary treatment, followed by secondary treatment with the treated effluent discharging to the Mullaghanoe River. Waste sludge used to be dried on drying beds before final disposal off site but this practice has ceased.

2. DESCRIPTION OF EXISTING CHARLESTOWN WASTE WATER TREATMENT PLANT

Charlestown town

Charlestown is located to the east of county Mayo approximately 25km North East of Castlebar.

It is on the border with County Sligo. The Sligo part of the agglomeration is known as Bellaghy, which is located to the north of Charlestown.

Charlestown is located on the junction of the N5/N17. The population of Charlestown in the 2006 census of population stood at 859 persons. A Geo-Directory database, counted between houses and apartments approximately 600 properties in the catchment. DWF at the plant was estimated at 320m³/day.

Charlestown Municipal Wastewater Treatment Plant



Charlestown / Bellaghy Waste Water Treatment Plant has been in operation since June 1982.

The plant is actually located in Co. Sligo but Mayo County Council is the owner.

The incoming wastewater is initially received into the preliminary treatment facilities where it is lifted by screw pumps to screening facilities.



Flows in excess of the design capacity overflow a raked bar interceptor screen and are then pumped to a storm discharge by similar overflow pumps. Incoming flows are recorded via a flume and level sensor on their way to secondary treatment.

Preliminary treatment



Screenings are removed manually by a raked bar screen. Grit removal and maceration equipment do not work on site.

Secondary treatment



The screened wastewater then flows forward to the secondary treatment process which consists of an activated sludge process comprising an aeration tank followed by sedimentation.



The aeration tank has an estimated capacity of 425m³ while the sedimentation tank has a diameter of 8.4m



A sludge pumping station is provided to return the activated sludge from the sedimentation tank to the aeration tank. Waste sludge is withdrawn from tanker and disposed at Swinford WWTP.



The old drying beds are now redundant.

3. SOURCES OF EMISSIONS:

- **SW1(P)** located on the Mullaghanoe River 147,531E 302219N



Storm Overflows



SW2.

A storm flow operates at the treatment plant. Anything greater than 3DWF, overflows a raked bar screen, into a storm sump. Two Screw type pumps lift the excess flow into a chamber where it is discharged to the Mullaghanoe River.

SW3. Located on the Swinford Road line, where it turns at the Mullaghanoe River.

SW4. Located on the Galway Road sewer, where it turns northwards at the Mullaghanoe River at the end of the small laneway behind Ballyglass House.

SW5. Located on a 225mm side branch into the Swinford Road sewer just upstream of where it crosses the Mullaghanoe River and joins with the Galway Road sewer.

It is proposed to eliminate this overflow as the downstream sewer has enough capacity to deal with peak storm flows from any rainfall without surcharging.

SW6. Located on the main Bellaghy line, this appears to be a culvert under the N17. Located at a manhole outside the petrol station, just upstream of where it discharges into the main outfall at the railway crossing. It connects up with a second Bellaghy line and a line coming from the Market Square area.

4. NATURE AND QUANTITIES OF FORESEEABLE EMISSIONS

The wastewater treatment works is designed to treat the wastewater treatment to the standards required by the Urban Wastewater Treatment Regulations i.e. BOD 25 mg/l, COD 125mg/l and SS 35 mg/l.

As per Preliminary Report the existing Estimated throughput (including stormwater) is 500-600m³/day.

The Proposed Charlestown / Bellaghy WWTP design for year 2026 is 4000 P.E. approximately with a BOD load of 240kg/day, and a flow of 900m³/day

No information is available on the nature and quantities of the discharges from the storm overflows

All discharges take place to the Mullaghanoe River which is within the Moy Catchment Special Area of Conservation, Site Code 000458. The Mullaghanoe River is a Salmonoid river and is one of the main spawning and nursery grounds of the River Moy catchment.

The River Mullaghanoe is in the Western River Basin Catchment and has an overall Risk Category under the Water Framework Directive of a 1A, at significant risk.

Results were obtained from the E.P.A. for sampling carried out downstream of all the discharge points.

5. TECHNOLOGY FOR PREVENTION OR REDUCTION OF EMISSIONS

Emissions from the waste water treatment works are monitored and the treatment process is constantly adjusted to maximise the efficiency of the plant in removing any pollutants. The process, as has already been summarised above, is limited in removing BOD, nitrogen, phosphorous and suspended solids from the final effluent which results in a reduction of harmful emissions from the treatment works.

Further Measures Planned to Eliminate or Reduce Emissions

Proposed works for upgrading Charlestown Sewage Treatment Plant

Land availability.

The existing site is of acceptable size to cater for the proposed upgrades to the plant.

Sewer hydraulic upgrading and network extensions.

As a result of the hydraulic modelling of the existing sewer network, under future loading conditions a number of existing sewers will be increased in size. In total eight sewer hydraulic upgrades, as well as one sewer network extension to the development boundary is required.

Sewer Structural Rehabilitation

As part of the CCTV survey the structural condition of sewers were visually assessed and graded on their internal condition. The existing system is resulting in excessive spills at the existing sewer overflows and surcharging in the existing sewers. Thus a number of sewers will be upgraded in the town.

The main defects noted were faulty connections, debris in the sewers, pipe breaks, fractures and cracks infiltration.

Future proposed upgrade.

A complete determination of the type of treatment to be used in the upgraded plant cannot be made at this time, however based on an initial preliminary report the following has been proposed.

Preliminary Treatment

For the most part preliminary treatment of the wastewater arising from the proposed sewerage scheme upgrade will be independent of the secondary treatment process selected. The preliminary treatment process will consist of removal of plastic and rags as well as grit silt and sand from the waste stream. Screening facilities will be provided to remove inorganic, non bio-degradable solids such as stones rags bottles timber paper etc.

Flow measurement and influent sampling will be carried out at the Inlet works.

Secondary Treatment

A Sequencing Batch Reactor process has been chosen to operate in parallel with the existing aeration tank and associated secondary clarifier. Nutrient removal will also be achieved with this process.

Tertiary treatment

The requirement to achieve a tertiary standard effluent means that an additional solids removal unit operation is required after the principal treatment process. The selection of either a sand filter or alternatively a micro-strainer was investigated. Sand filters are the preferred option in this instance.

Sludge treatment.

A gravity thickener, using a Picket Fence thickener is proposed followed by dewatering using a belt press.

6. SUPERVISION OF WORKS

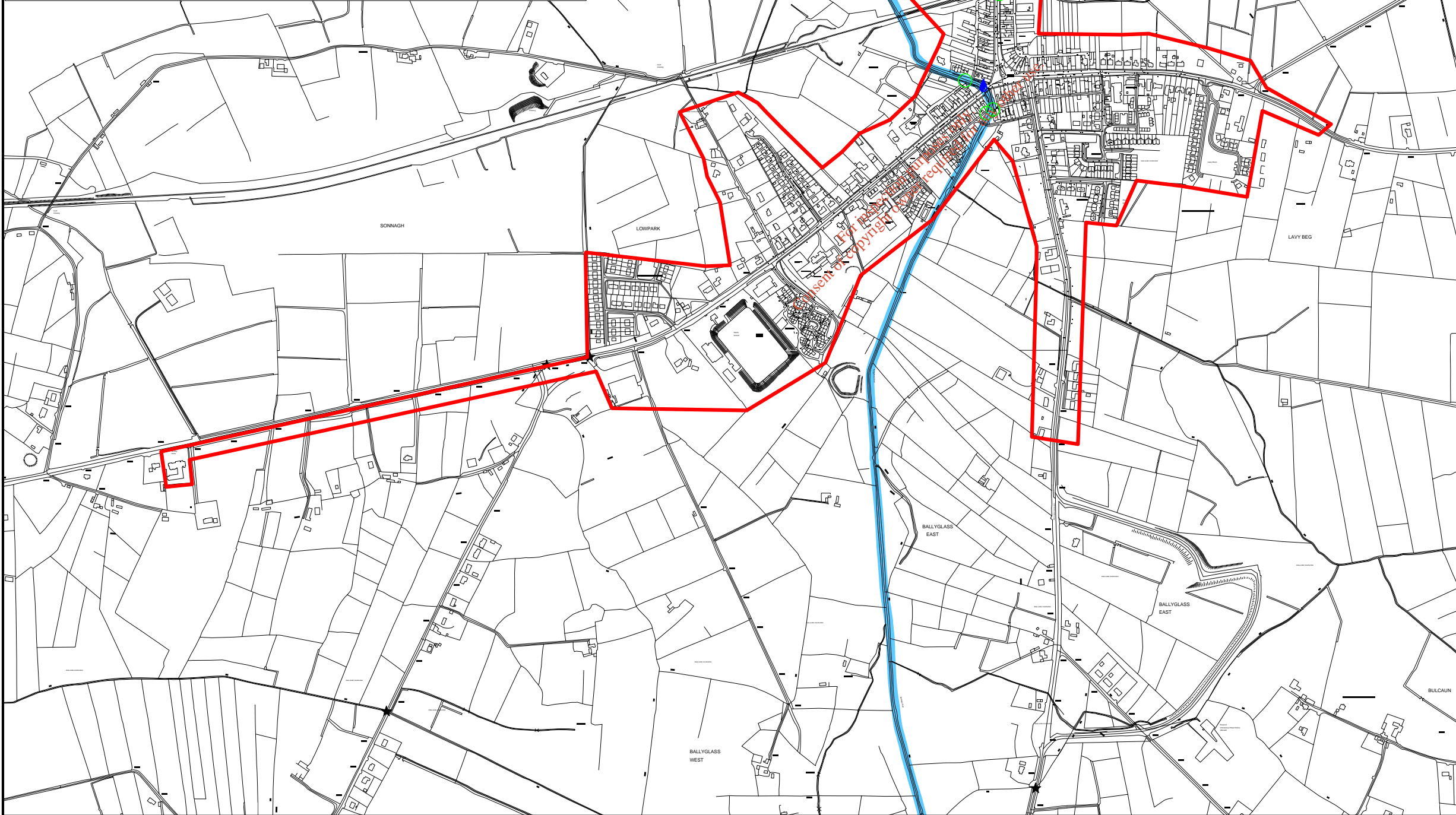
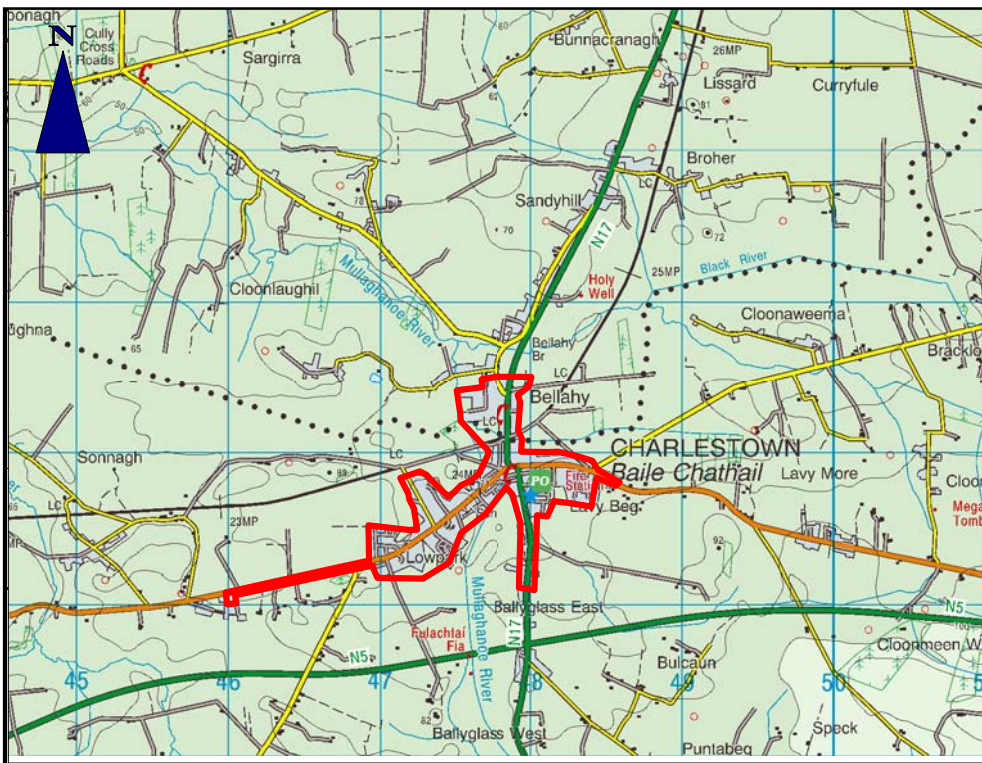
The wastewater treatment works is staffed by a caretaker 4 hours per day.

Measures planned to monitor emissions to the environment

Sampling currently takes place at the wastewater treatment works final effluent manhole, in accordance with the provisions of the Urban Wastewater Treatment Regulations. This will continue to be the case.

The Charlestown Sewerage Scheme is operated without the use of a SCADA system.

The storm water overflow points are subject to a regular inspection and cleaning regime which will continue.



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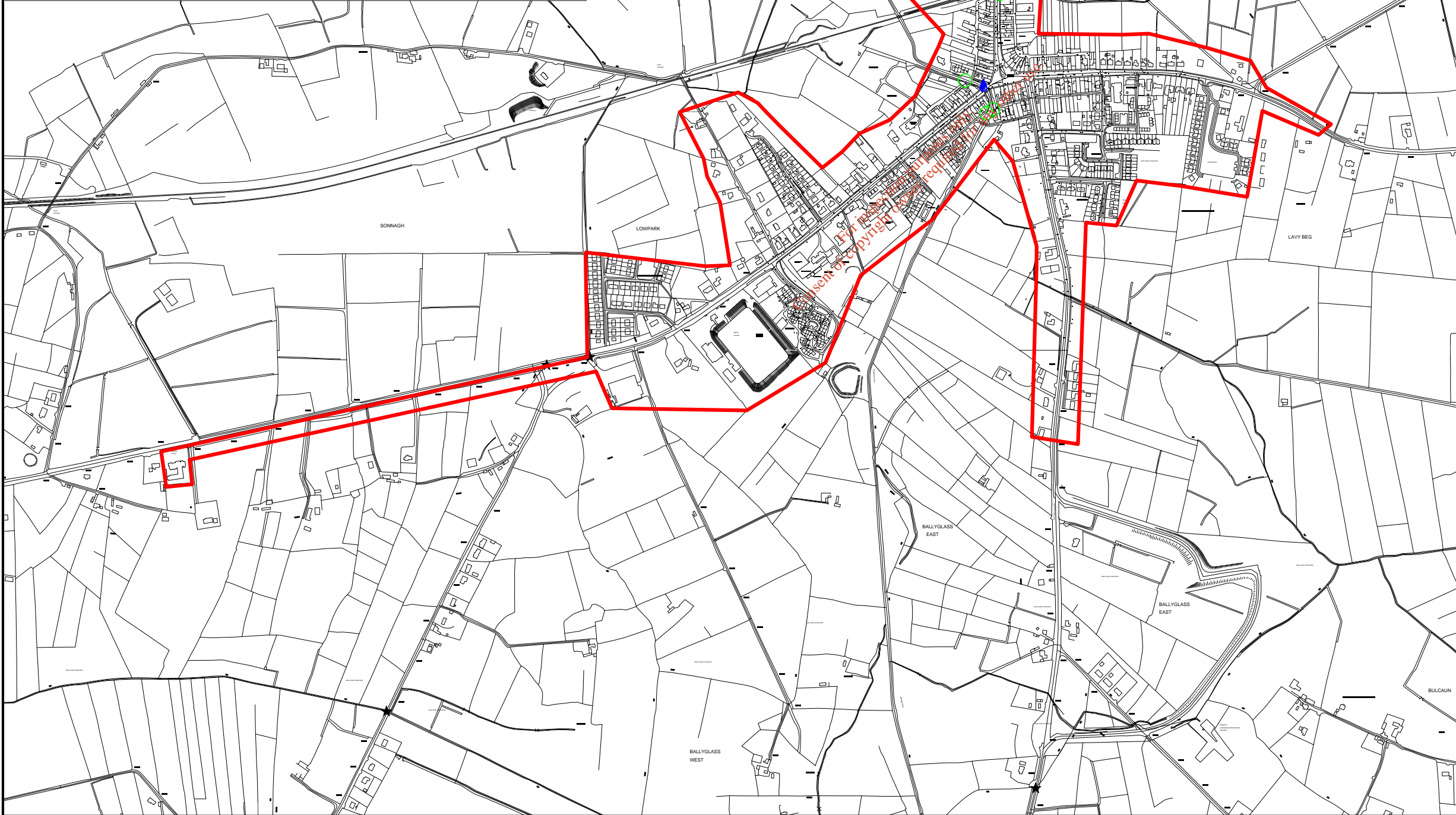
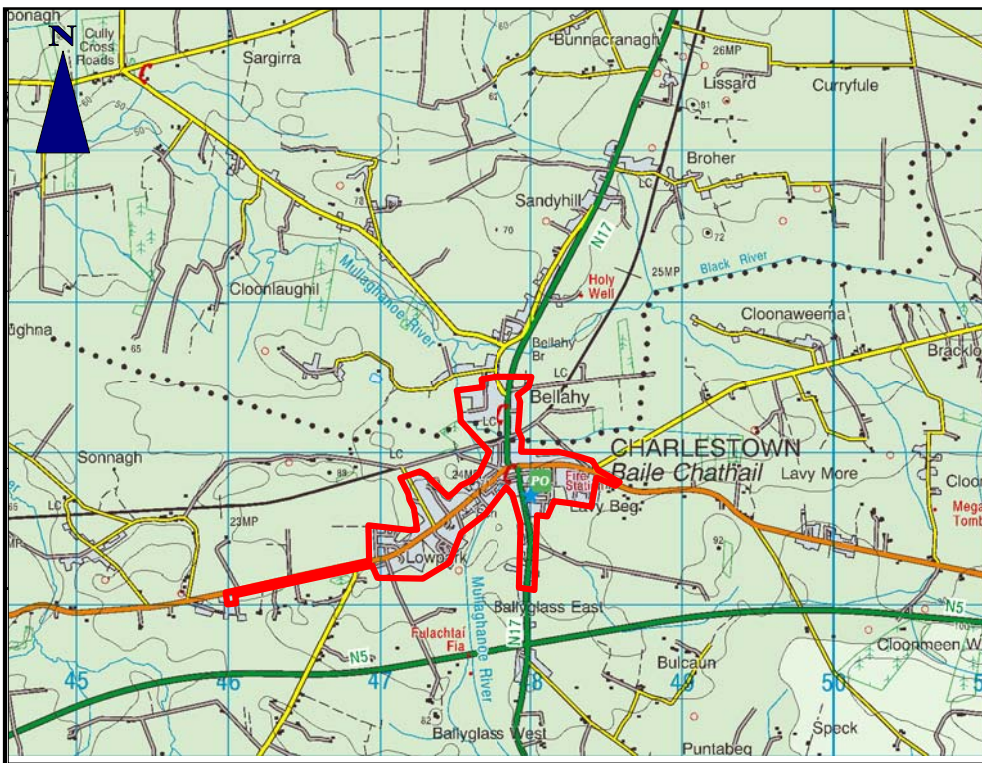
Legend

- Proposed Agglomeration Boundary
- Proposed WWTP Boundary
- ▲ Upstream Monitoring Point
- ◆ Outlet Monitoring Point
- ▲ Downstream Monitoring Point
- ◆ Inlet Monitoring Point
- Stormwater Discharge Point
- Primary Discharge Point

Drawn By: C Worsfold	Checked By: O. Feeney/ M. O'Grady	Approved By: T. Reidy
Drg. Nr: Map B.1.	Rev: A	
Scale: 1: 50,000 & 1:10,000	Date: 15.12.08	
Project: Waste Water Discharge Licence Application		
Drg. Title: Charlestown / Bellaghy Wastewater Treatment Plant Agglomeration Boundary		

**Mayo County Council
G.I.S. Section**

Aras An Chontae,
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Legend

- Proposed Agglomeration Boundary
- Proposed WWTP Boundary
- ▲ Upstream Monitoring Point
- ◆ Outlet Monitoring Point
- ▲ Downstream Monitoring Point
- ◆ Inlet Monitoring Point
- Stormwater Discharge Point
- Primary Discharge Point

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Drg. Nr: Map B.1.1.	Rev: A
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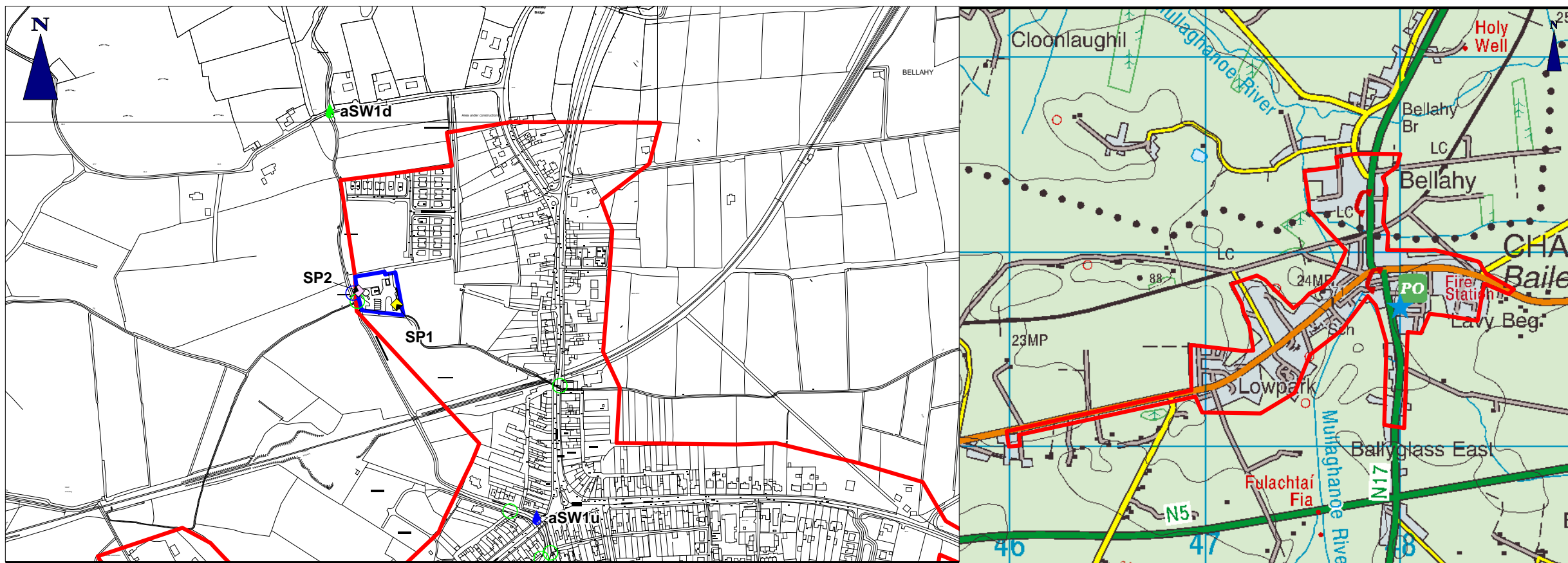
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Project:
Waste Water Discharge Licence Application

Drg. Title:
PROPOSED Charlestown / Bellaghy Wastewater Treatment Plant Agglomeration Boundary

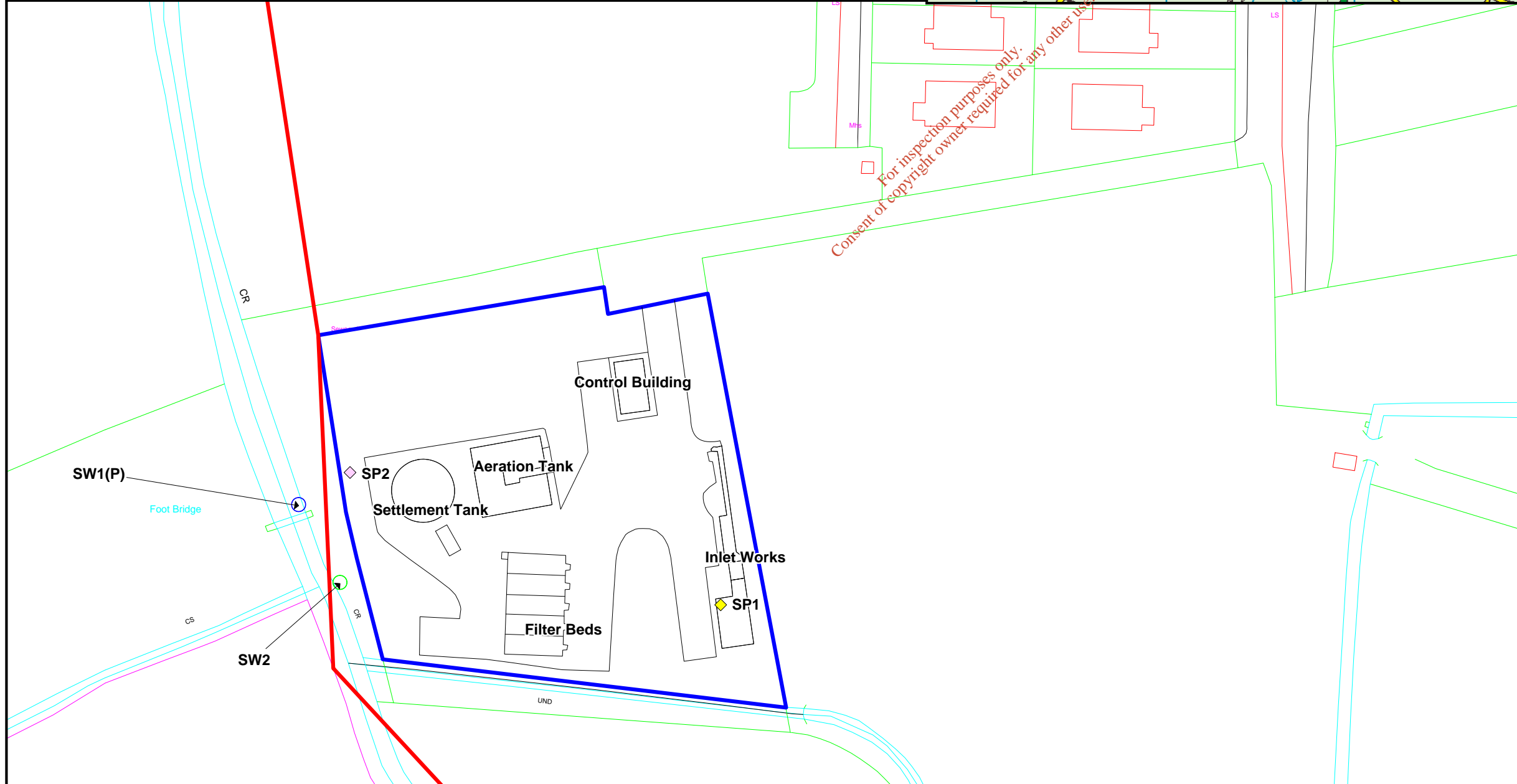
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- Legend**
- Upstream Monitoring Point
 - Inlet Sampling Point
 - Downstream Monitoring Point
 - Outlet Sampling Point
 - Primary Discharge Point (1Nr)
 - Stormwater Discharge Point (1Nr)
 - Charlestown Wastewater Treatment Plant Boundary
 - Agglomeration Boundary



Drawn By: C Worsfold	Checked By: O. Feeney/ M. O'Grady	Approved By: T. Reidy
Drg. Nr: Map B.2.		Rev: A
Scale: 1: 750 (Inset 1: 7,500 & 1:25,000)		Date: 15.12.08

Project:
Waste Water Discharge Licence Application

Drg. Title:
Charlestown / Bellaghy Wastewater Treatment Plant Layout Plan

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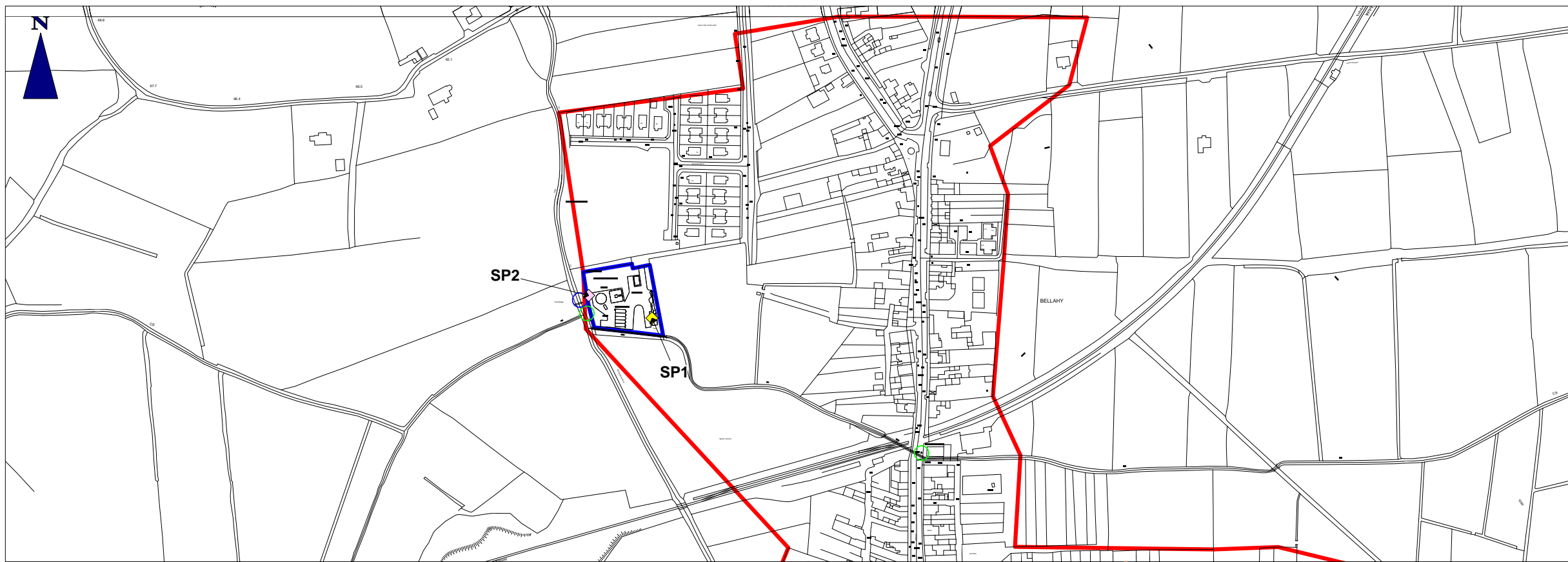


B.2.1 Proposed Layout Plan

The proposed new Charlestown / Bellaghy Waste Water Treatment Plant will be subject to a Design / Build and Operate contract.

This means that the actual layout will depend on the design included in the successful tender.

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- Legend**
- Proposed Agglomeration Boundary
 - Proposed WWTP Boundary
 - ♂ Upstream Monitoring Point
 - ◇ Outlet Monitoring Point
 - ♂ Downstream Monitoring Point
 - ◇ Inlet Monitoring Point
 - Stormwater Discharge Point
 - Primary Discharge Point



Drawn By: C Worsfold	Checked By: O. Feeney/ M. O'Grady	Approved By: T. Reidy
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Drg. Nr: Map B.2.1.	Rev: A
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Scale: 1: 750 (Inset 1: 7,500 & 1:25,000)	Date: 15.12.08
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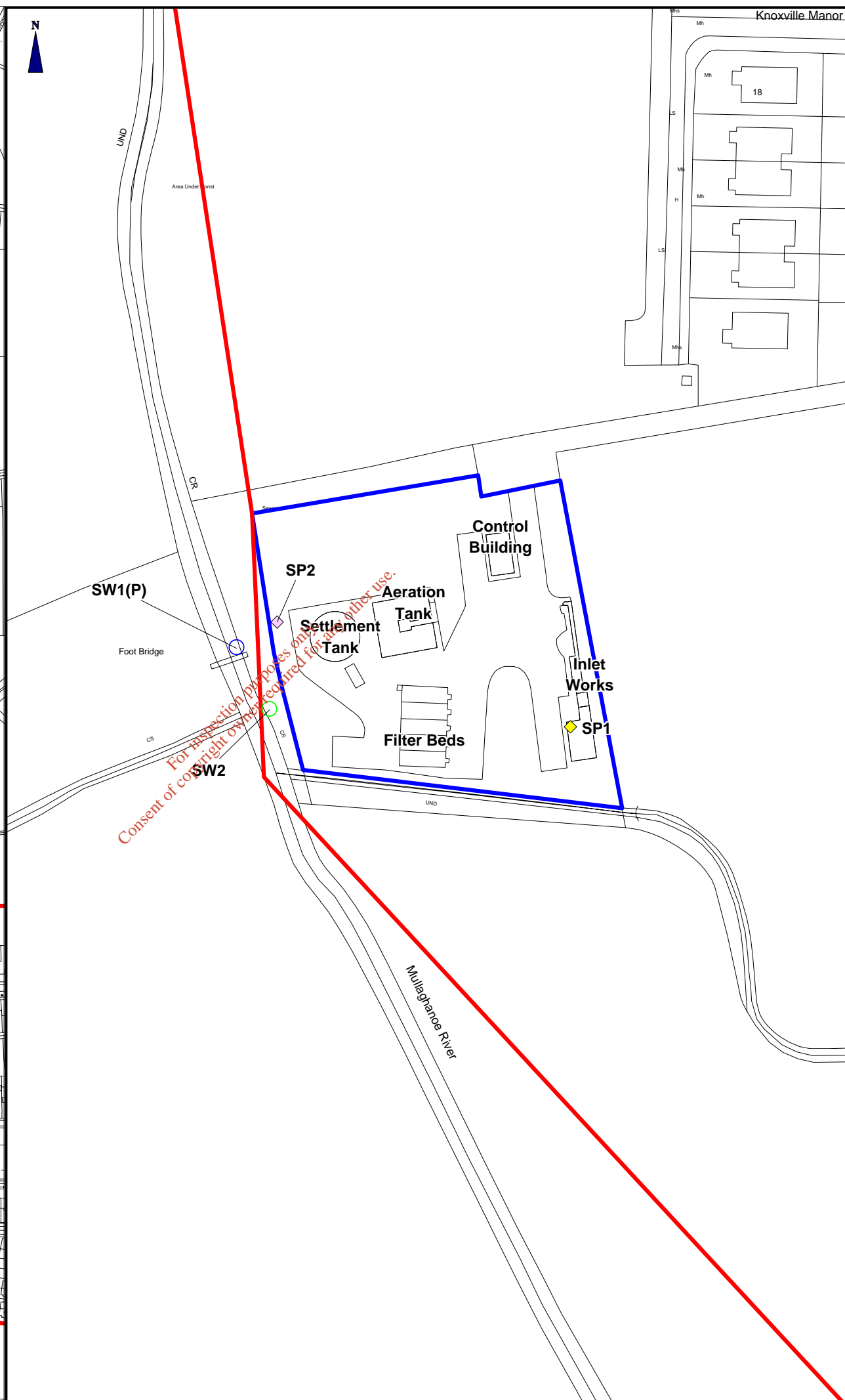
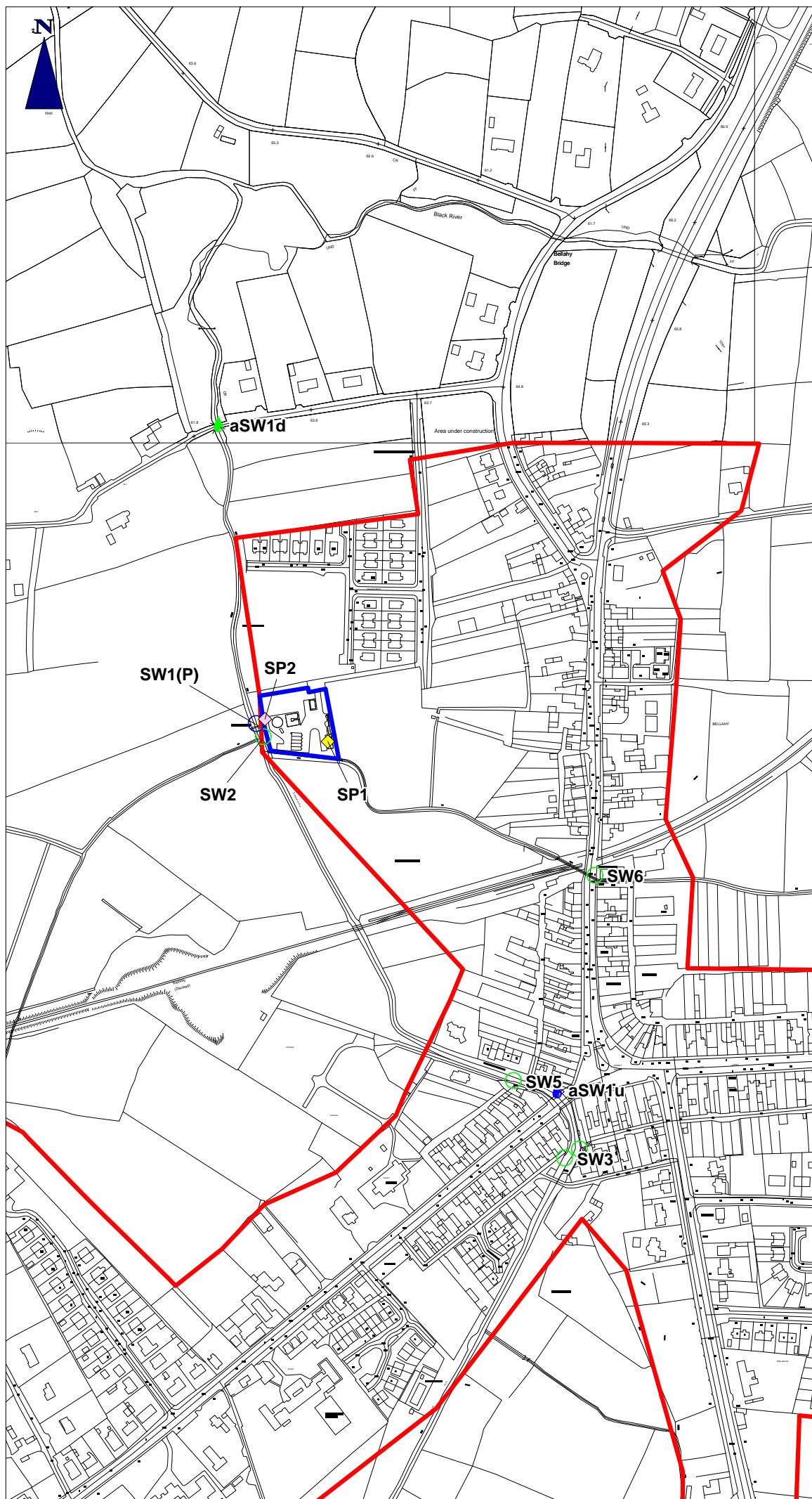
Project:
Waste Water Discharge Licence Application

Drg. Title:
PROPOSED Charlestown / Bellaghy Wastewater Treatment Plant Layout Plan

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- Legend**
- Upstream Monitoring Point
 - Inlet Sampling Point
 - Downstream Monitoring Point
 - Outlet Sampling Point
 - Primary Discharge Point
 - Stormwater Discharge Point
- Charlestown Wastewater Treatment Plant Boundary
- Agglomeration Boundary

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Drg. Nr: Map B.3.		Rev: A
Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08	
Project: Waste Water Discharge Licence Application		
Drg. Title: Charlestown / Bellaghy Wastewater Treatment Plant Location of Primary Discharge Point SW1(P)		







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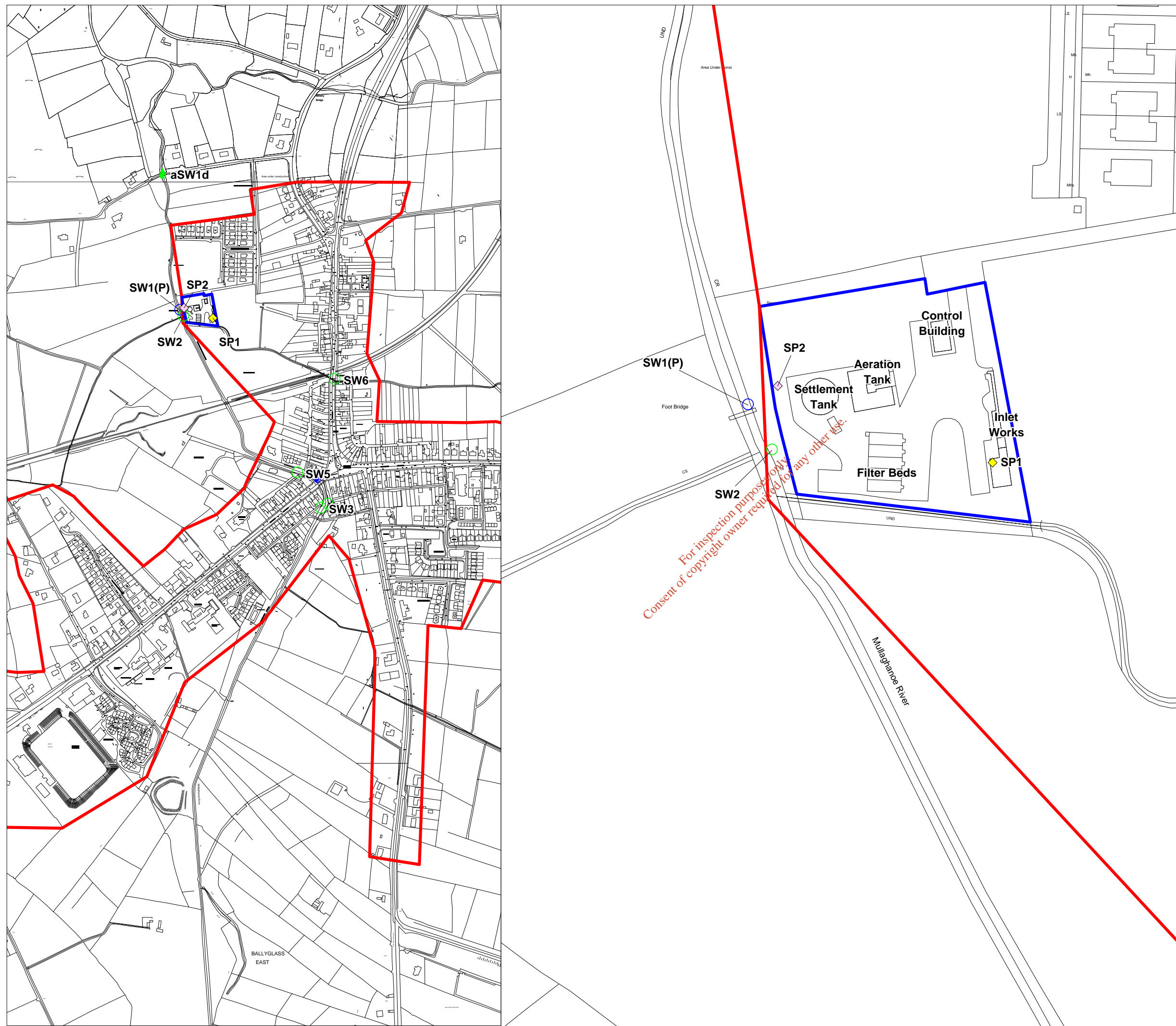


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Legend

-  Upstream Monitoring Point
-  Inlet Sampling Point
-  Downstream Monitoring Point
-  Outlet Sampling Point
-  Primary Discharge Point
-  Stormwater Discharge Point

-  Charlestown Wastewater Treatment Plant Boundary
-  Agglomeration Boundary



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Drg. Nr: Map B.5.1	Rev: A
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Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08
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Project:
Waste Water Discharge Licence Application

Drg. Title:
**Charlestown / Bellaghy Wastewater Treatment Plant
Location of Stormwater Discharge Point SW2**







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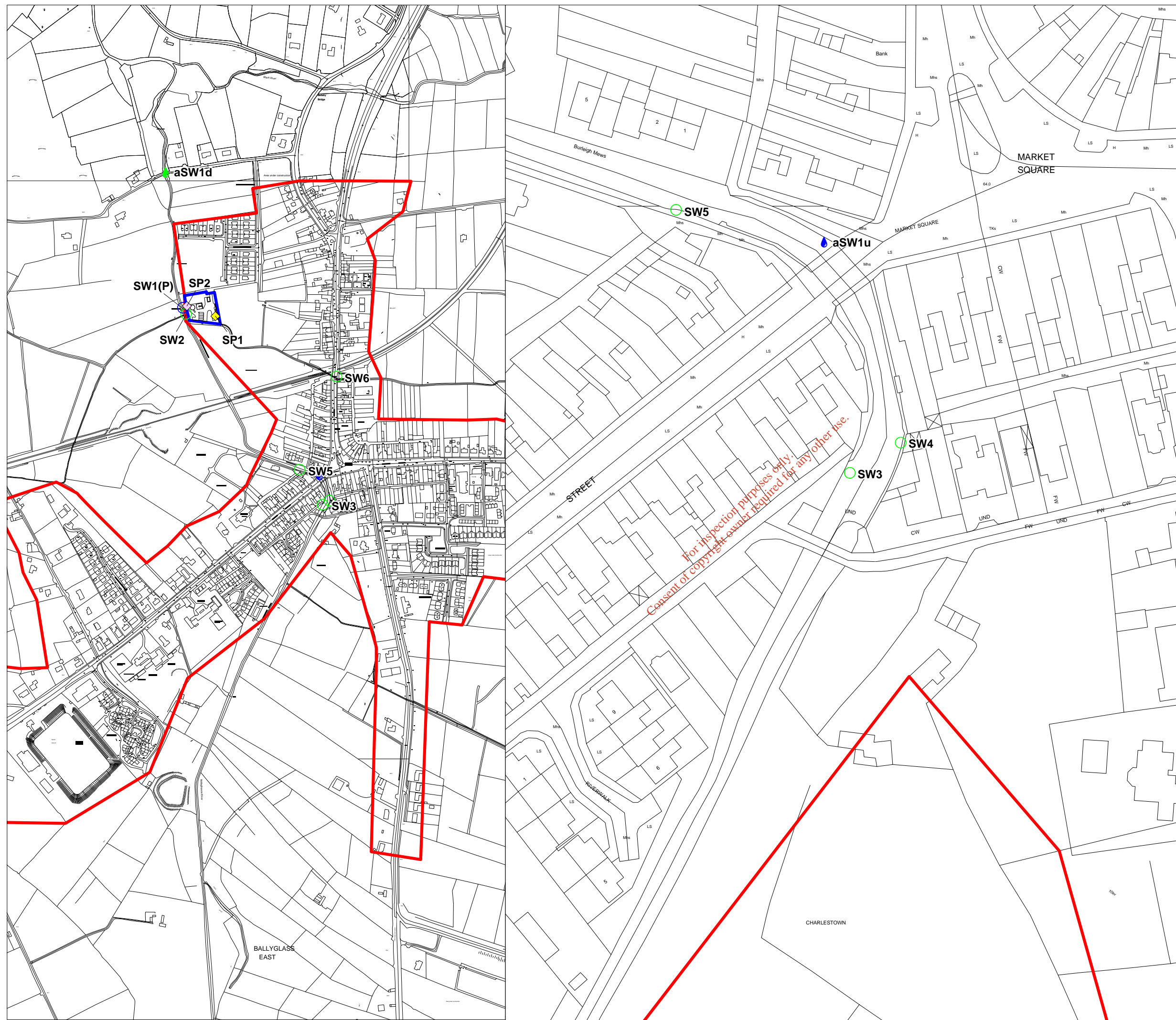


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Legend

-  Upstream Monitoring Point
-  Inlet Sampling Point
-  Downstream Monitoring Point
-  Outlet Sampling Point
-  Primary Discharge Point
-  Stormwater Discharge Point

-  Charlestown Wastewater Treatment Plant Boundary
-  Agglomeration Boundary



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Drg. Nr: Map B.5.2	Rev: A	
Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08	
Project: Waste Water Discharge Licence Application		
Drg. Title: Charlestown / Bellaghy Wastewater Treatment Plant Location of Stormwater Discharge Point SW3		









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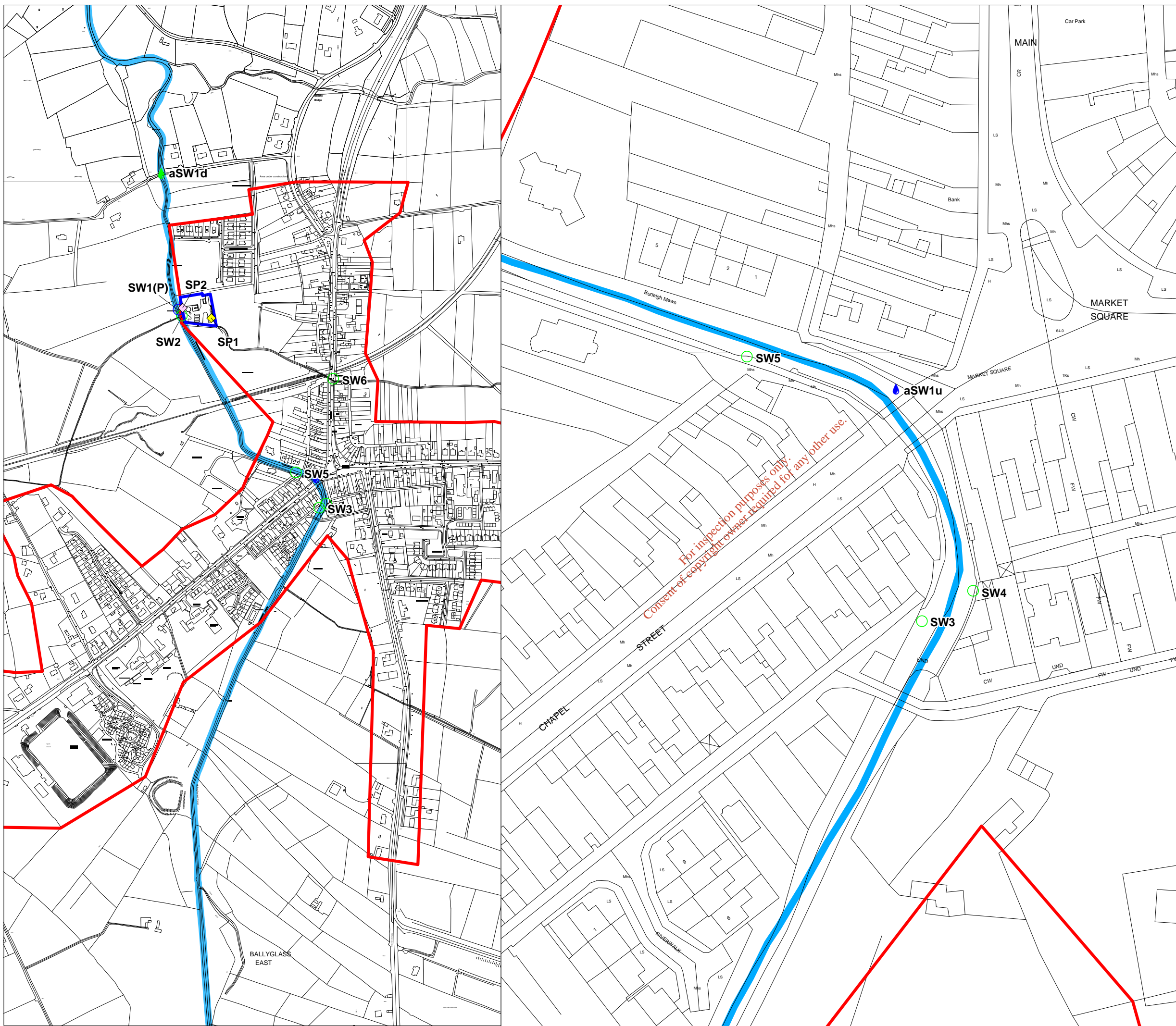
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Legend

-  Upstream Monitoring Point
 -  Inlet Sampling Point
 -  Downstream Monitoring Point
 -  Outlet Sampling Point
 -  Primary Discharge Point
 -  Stormwater Discharge Point
-
-  Charlestown Wastewater Treatment Plant Boundary
 -  Agglomeration Boundary



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Drg. Nr: Map B.5.3	Rev: A
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Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08
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Project:
Waste Water Discharge Licence Application

Drg. Title:
**Charlestown / Bellaghy Wastewater Treatment Plant
Location of Stormwater Discharge Point SW4**









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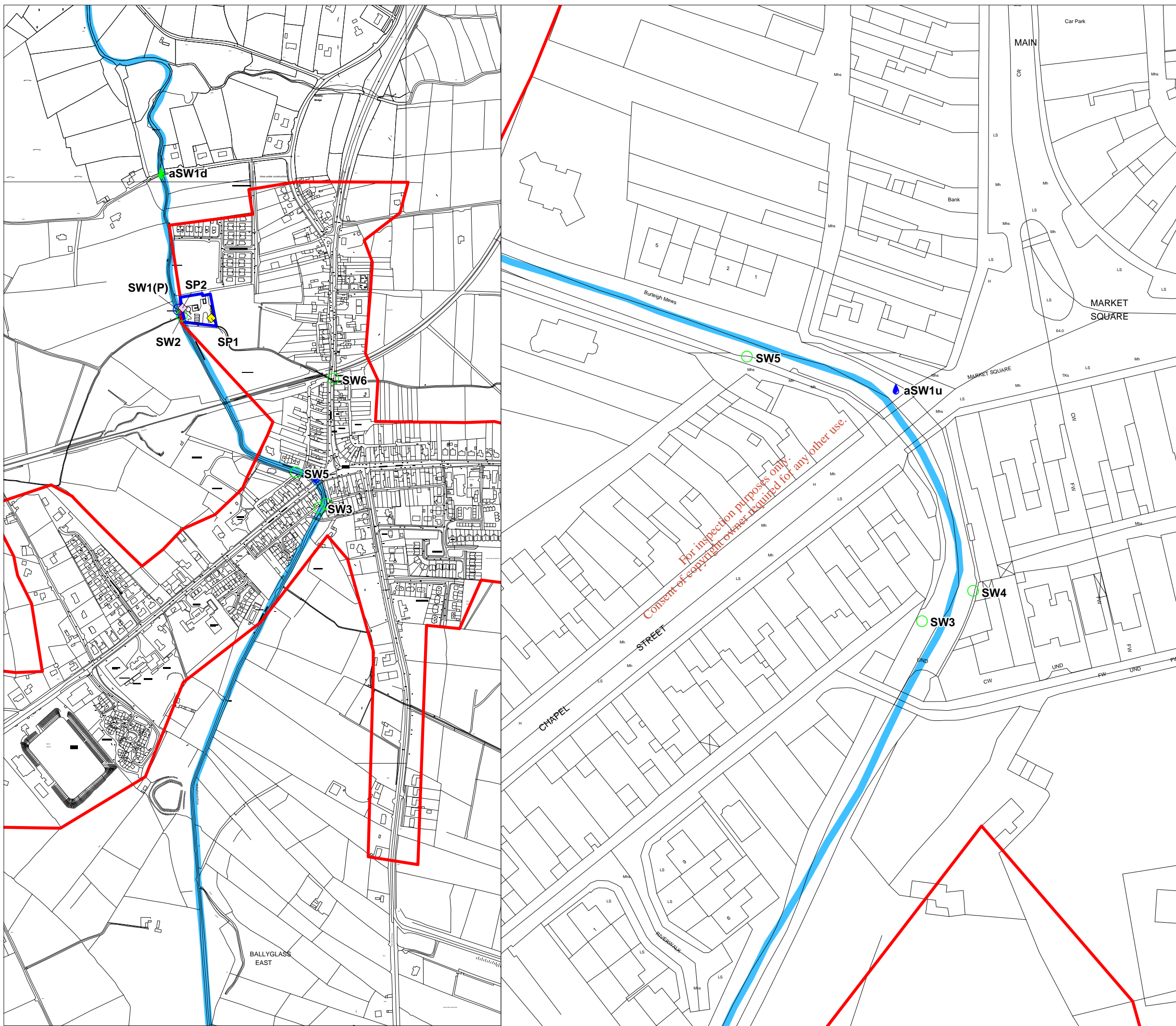
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Legend

-  Upstream Monitoring Point
 -  Inlet Sampling Point
 -  Downstream Monitoring Point
 -  Outlet Sampling Point
 -  Primary Discharge Point
 -  Stormwater Discharge Point
-
-  Charlestown Wastewater Treatment Plant Boundary
 -  Agglomeration Boundary



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Drg. Nr: Map B.5.4	Rev: A
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Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08
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Project:
Waste Water Discharge Licence Application

Drg. Title:
**Charlestown / Bellaghy Wastewater Treatment Plant
Location of Stormwater Discharge Point SW5**







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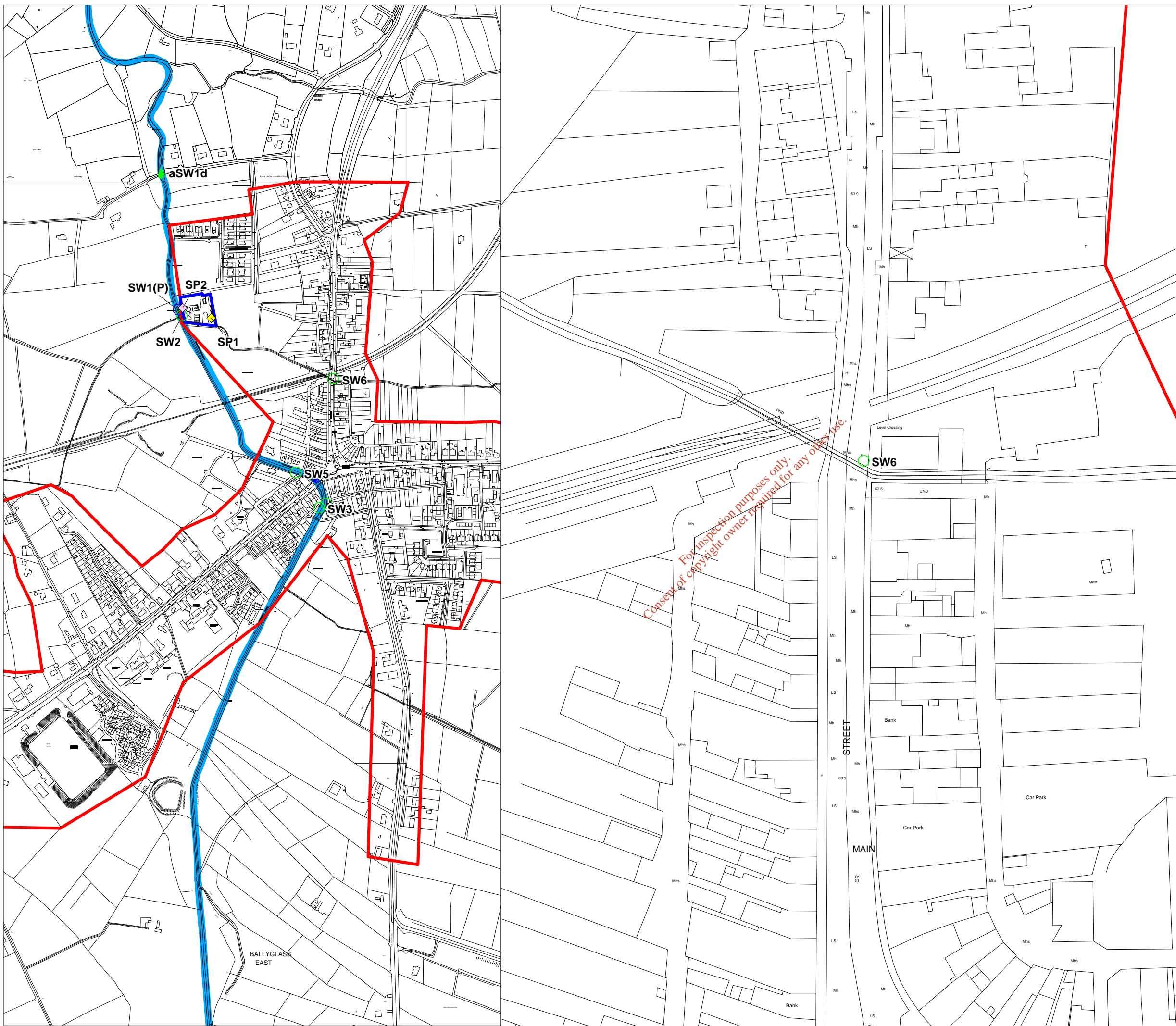


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Legend

-  Upstream Monitoring Point
-  Inlet Sampling Point
-  Downstream Monitoring Point
-  Outlet Sampling Point
-  Primary Discharge Point
-  Stormwater Discharge Point

 Charlestown Wastewater Treatment Plant Boundary



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Drg. Nr: Map B.5.5		Rev: A
Scale: 1: 1,000 (Inset 1: 5,000)	Date: 15.12.08	
Project: Waste Water Discharge Licence Application		
Drg. Title: Charlestown / Bellaghy Wastewater Treatment Plant Location of Stormwater Discharge Point SW6		

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COMHAIRLE CHONTAE MHAIGH EO

Aras an Chontae, Caislean a 'Bharraigh, Chontae Mhaigh Eo.
Teileafóin (094) 9024444 Fax (094) 9023937 Website: www.mayococo.ie

Your Ref.

Our Ref.

28th January 2009

Donal Harrison,
Water Services,
Sligo County Council,
St Annes Place
Sligo,
Co. Sligo.

**Re: APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY
FOR A WASTE WATER DISCHARGE LICENCE**
Applicant: Mayo County Council

Dear Donal Harrison,

Mayo County Council intends to apply to the Environmental Protection Agency for a waste water discharge licence, in accordance with the Waste Water Discharge (Authorisation) Regulations 2007 for the Charlestown / Bellaghy Waste Water Treatment Plant.

The Charlestown / Bellaghy Waste Water Treatment Plant, located at Bellaghy, County Sligo (147,571E, 302,236N) comprises of the existing municipal treatment plant and the associated collection network.

This application relates to the following existing discharges: Primary Outfall SW1 (147,531E, 302,234N), Stormwater Overflow SW2 (147,537E, 302,222N), Stormwater Overflow SW3 (147,821E, 301,826N), Stormwater Overflow SW4 (147,835E, 301,834N), Stormwater Overflow SW5 (147,773E, 301,899N) & Stormwater Overflow SW6 (147,850E, 302,092N).

A copy of the application and information related to the application will be available for inspection or purchase at the headquarters of the Agency and at the offices of Mayo County Council, Áras an Chontae, The Mall, Castlebar, County Mayo as soon as is practicable after receipt.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, Johnstown Castle Estate, Co. Wexford.

Yours sincerely

PP 
Paddy Mahon
Director of Services



SITE NOTICE



APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE

Applicant: Mayo County Council,
Áras an Chontae,
The Mall,
Castlebar,
County Mayo.

Mayo County Council intends to apply to the Environmental Protection Agency for a Waste Water Discharge Licence, in accordance with the Waste Water Discharge (Authorisation) Regulations 2007 for the discharge from the
Charlestown / Bellaghy Waste Water Treatment Plant and Agglomeration.

The Charlestown / Bellaghy Waste Water Treatment Plant, located at Bellaghy, County Sligo (147,571E, 302,236N), comprises of the existing municipal treatment plant and the associated collection network, along with proposed upgrade of collection network and wastewater treatment plant.

This application relates to the following existing discharges; Primary Outfall SW1 (P) (147,531E, 302,234N), Stormwater Overflow SW2 (147,537E, 302,222N), Stormwater Overflow SW3 (147,821E, 301,826N), Stormwater Overflow SW4 (147,835E, 301,834N), Stormwater Overflow SW5 (147,773E, 301,899N) & Stormwater Overflow SW6 (147,850E, 302,092N).

The proposed upgraded wastewater treatment plant is to be located at the existing site (147,571E, 302,236N).

The Waste Water Treatment Plant uses biological processes in conjunction with physical settling and to remove the pollutants from the influent and treat it to the standard set out in Urban Wastewater Treatment Regulations 2001. Effluent is to be discharged into the Mullaghanoë River.

A copy of the application and information related to the application will be available for inspection or purchase at the headquarters of the Agency and at the offices of Mayo County Council, Áras an Chontae, The Mall, Castlebar, County Mayo as soon as is practicable after receipt.

Submissions in relation to the application may be made to the Agency at its headquarters:

Environmental Protection Agency,
Johnstown Castle Estate,
Co. Wexford.

Recruitment/Public Notices



Ireland West Airport Knock

WANT TO JOIN IRELAND'S FASTEST GROWING INTERNATIONAL AIRPORT, WORK IN A DYNAMIC AND HUGELY REWARDING MANAGEMENT POSITION AND LIVE IN THE WEST OF IRELAND?

Ireland West Airport Knock has expanded its services to include over 20 international routes and embarked on an expansion programme which will provide the airport with the capacity to handle one million passengers by 2010. Coupled with this growth in airport services and traffic, the airport sees opportunities to create new enterprises arising from international aviation related services and from environmentally sustainable innovation and enterprise development.

To drive this continued growth and development, the organisation wishes to appoint the following key role

Managing Director

This is an exciting and unique opportunity to build the business and achieve extraordinary results. This role demands an innovative person who can demonstrate a strong strategic, commercial and operational management track record of achieving profitable growth, combined with a passion to succeed. It also involves working with key stakeholders, regional development authorities and the Government at the highest level, to pursue our positive plans for the future. Candidates will be preferably educated to degree level or equivalent and a background in enterprise development or aviation would be an advantage, but is not essential. If you are a strong leader who can transform our vision into reality, then we would like to hear from you.

The successful applicant will be provided with a competitive package commensurate with the position, as well as the opportunity to work, and live in, one of the most attractive parts of Ireland.

A job description can be found on our website: www.irelandwestairport.com. Candidates requiring additional information should contact Olivia Martin.

To apply please send a covering letter explaining your suitability for the position together with a detailed CV to: **Ms. Olivia Martin, Ireland West Airport Knock, Charlestown, County Mayo** or by emailing oliviamartin@irelandwestairport.com
Closing date for applications: **Friday 27th February 2009.**



SUPERVISOR

FAS Scheme

Ability to manage mixed groups of 20 or more people on different community projects involving administration, maintenance of pitches and community centres, environmental work and to set up and manage same.

Applicants must have the ability to liaise with community interests around the planning and maintenance of the Scheme. Must also have the ability to mentor and counsel and motivate long-term unemployed participants about acquiring skills which would help them in the labour market after leaving C.E.

The successful candidate will have good IT, administrative and man-management skills and will be willing to undergo further training from time to time as required.

Salary for fully qualified Supervisor is from €35k - €40k - 39 hour week.

Applications must be in by 25th February, 2009.

Apply in writing to **The Chairman, Headford FAS Scheme, St. Fursa's Parish Hall, Headford, Co. Galway.**

All applications must be marked "Private & Confidential".

Tenders are invited for quotes on the following:

INDIVIDUAL TRADESMEN ONLY APPLY

NO CONTRACTORS PLEASE

1. Fitting of timber engineering flooring pre-finished to be glued on concrete (150 yards).
2. Fitting of 18 no. pre-hung internal doors.
3. Fitting of 2,200 metres to pre-finished skirting.
4. Building of 32 metres of Lacken stone wall.
5. Building of 47 metres of Lacken Stone Wall.
6. Laying of 180 metres of block paving.

Send to:
Western People, Box G476994, Tone Street, Ballina, County Mayo, with price before VAT and your full contact details stating the above number you are giving quote for.

PRENDERGAST'S Gala Claremorris

MANAGER REQUIRED

We now require a dynamic individual to take up the role of Store Manager

Key Responsibilities:

- Day to Day running of large Supermarket
- Consistently achieve sales targets.
- Achieve applied cost structure.
- Stock loss prevention.
- Responsible for department layouts and merchandising standards.
- Retention and expansion of customer base through service level.
- Control of stock levels.
- Administration of management information systems.
- Responsible for store hygiene audits.
- Fully responsible for day to day running of the store.
- Fully responsible for store profit and loss, margin management and budgeted costs

Skills & Experience: You will have previous experience in retail management at either a senior number two level or store manager's position, with a passion for food retailing or wholesaling, a people person with a commercial edge and a desire to drive your own business category forward. Ambitious, not only for yourself but for your company.

For more information on this role please send your CV to Prendergast's Gala, D'Aiton Street, Claremorris, Co. Mayo.

PRODUCTION SUPERVISOR WANTED

For east Mayo food company
Experience preferred but not essential as full training will be given to the right candidate.

Please forward CVs to: Box 477083, "Western People", Tone Street, Ballina, County Mayo.

Cois Cuain Carter Square, Belmullet

Require...

- **COMMIS CHEF**
- **WAITING STAFF**

Contact (087) 1304985.

DEADLINE NOTICE
Copy for all adverts in our Recruitment Section must be received before 2 pm on the Monday of the date of publication.
Thank you for your contribution.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE



Applicant: Mayo County Council
Áras an Chontae,
The Mall, Castlebar, County Mayo

Mayo County Council intends to apply to the Environmental Protection Agency for Waste Water Discharge Licences, in accordance with the Waste Water Discharge (Authorisation) Regulations 2007 for the following Waste Water Treatment Plants and Agglomeration:

LOCATION	DESCRIPTION	PRIMARY DISCHARGE
Balla Waste Water Treatment Plant and Agglomeration	The Balla Waste Water Treatment Plant, located at Park Road, Moat, Balla, County Mayo (125,325E, 284,391N), comprises of the existing municipal treatment plant and the associated collection network. This application relates to the following existing discharges; Primary Outfall SW1 (P) (125,313E, 284,386N) & Stormwater Overflow SW2 (125,318E, 284,415N).	Loughnaminoe Stream
Bangor Erris Waste Water Treatment Plant and Agglomeration	The Bangor Erris Waste Water Treatment Plant, located at Bangor Erris, Ballina, County Mayo (85,770E, 322,740N), comprises of the existing municipal treatment plant and the associated collection network. This application relates to the following existing discharge; Primary Outfall SW1 (P) (85,640E, 322,726N).	Owenmore River
Charlestown / Bellaghy Waste Water Treatment Plant and Agglomeration	The Charlestown / Bellaghy Waste Water Treatment Plant, located at Bellaghy, County Mayo (147,571E, 302,236N), comprises of the existing municipal treatment plant and the associated collection network, along with proposed upgrade of collection network and wastewater treatment plant. This application relates to the following existing discharges; Primary Outfall SW1 (P) (147,531E, 302,234N), Stormwater Overflow SW2 (147,537E, 302,222N), Stormwater Overflow SW3 (147,821E, 301,826N), Stormwater Overflow SW4 (147,835E, 301,834N), Stormwater Overflow SW5 (147,773E, 301,899N) & Stormwater Overflow SW6 (147,850E, 302,092N). The proposed upgraded wastewater treatment plant is to be located at the existing site (147,571E, 302,236N).	Mullaghanoe River
Foxford Waste Water Treatment Plant and Agglomeration	The Foxford Waste Water Treatment Plant; located in the townland of Foxford (127,172E, 304,496N), comprises of the municipal treatment plant and the associated collection network along with proposed upgrade and construction of a wastewater treatment plant in the townland of Foxford. This application relates to the following existing discharges; Primary Outfall SW1 (P) (127,080E, 304,573N), Stormwater Overflow SW2 (126,167E, 304,153N), Stormwater Overflow SW3 (126,941E, 304,428N), Stormwater Overflow SW4 (126,548E, 304,901N), Stormwater Overflow SW5 (126,973E, 304,302N) & Stormwater Overflow SW6 (126,790E, 304,160N). The proposed Wastewater Treatment Plant is to be located north of the existing site (127,132E, 305,131N).	River Moy
Kiltimagh Waste Water Treatment Plant and Agglomeration	The Kiltimagh Waste Water Treatment Plant located in the townland of Gortgarve (133,796E, 289,284N), comprises of the municipal treatment plant and the associated collection network, along with proposed upgrades and construction of a wastewater treatment plant. This application relates to the following existing discharges; Primary Outfall SW1 (P) (133,759E, 289,308N), Secondary Discharge SW2 (134,406E, 289,806N), Secondary Discharge SW3 (134,717E, 290,314N), Stormwater Overflow SW4 (134,773E, 289,301N), Stormwater Overflow SW5 (133,830E, 289,308N), Stormwater Overflow SW6 (133,742E, 289,147N), Stormwater Overflow SW7 (133,931E, 289,457N) & Stormwater Overflow SW8 (134,435E, 289,735N). This application relates to the following proposed discharges; Primary SW9 (P) (133,549E, 289,507N). The proposed wastewater treatment plant is to be located at the existing site (133,652E, 289,384N).	Drain into Pollagh River
Louisburgh Waste Water Treatment Plant and Agglomeration	The Louisburgh Waste Water Treatment Plant, located at Glebe, Louisburgh, County Mayo (80,544E, 280,777N) comprises of the existing municipal treatment plant and the associated collection network. This application relates to the following existing discharges; Primary Outfall SW1 (P) (80,471E, 280,812N), Secondary Discharge SW2 (80,541E, 280,609N) & Stormwater Overflow SW3 (80,471E, 280,812N).	Bunowen River
Mallaranny Waste Water Treatment Plant and Agglomeration	The Mallaranny Waste Water Treatment Plant, located at Mallaranny, Westport, County Mayo (83,775E, 296,806N) comprises of the existing municipal treatment plant and the associated collection network. This application relates to the following existing discharges; Primary Outfall SW1 (P), (83,785E, 295,957N), Secondary Discharge SW2, (82,785E, 296,585N) & Stormwater Overflow SW3 (83,785E, 295,957N).	Clew Bay
Newport Waste Water Treatment Plant and Agglomeration	The Newport Waste Water Treatment Plant, comprising primary settlement tanks located at 2 existing sites, North Quay (97,709E, 294,007N), South Quay (97,790E, 293,800N) and the existing collection network, along with proposed upgrades and construction of a wastewater treatment plant in the townland of Caulicaun, Newport, County Mayo. This application relates to the following existing discharges; Primary Outfall SW1 (P) (97,638E, 294,017N), Primary Outfall SW2 (P) (97,764E, 293,843N), Secondary Discharge SW3 (97,792E, 293,802N), Secondary Discharge SW4 (98,897E, 293,902N), Stormwater Overflow SW5 (98,189E, 293,723N), Stormwater Overflow SW6 (98,383E, 293,887N) & Stormwater Overflow SW7 (99,234E, 293,998N). This application also relates to the following proposed new discharge; Primary Outfall SW8 (P) (95,670E, 294,210N). The proposed Newport Waste Water Treatment Plant to be located at, Caulicaun, Newport, County Mayo (97,700E, 294,240N). An Environmental Impact Statement for the proposed Newport Sewerage Scheme will be submitted to the Agency with the application.	Clew Bay

Primary and Secondary treatment of waste waters is provided at all of the above plants with the exception of Kiltimagh and Newport which provide Primary treatment only.

A copy of the applications, and information related to the applications will be available for inspection or purchase at the headquarters of the Agency and at the Offices of Mayo County Council, Áras an Chontae, The Mall, Castlebar, County Mayo as soon as is practicable after receipt.

Submissions in relation to the applications may be made to the Agency at its headquarters:

Environmental Protection Agency, Johnstown Castle Estate, County Wexford.

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Including Accidental Damage to both your buildings and contents, for as little as €358.00.
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Tyrrell Insurances & Auctioneering is regulated by the Financial Regulator as a multi agency intermediary.

Announcement

Please note that **GLOBEWIDE TRAVEL** is located in the former premises of **Ferick Travel** at **Tone St., Ballina.**
Ferick Travel continues to trade in Ballinrobe, Co. Mayo.

Western People




info@westernpeople.ie

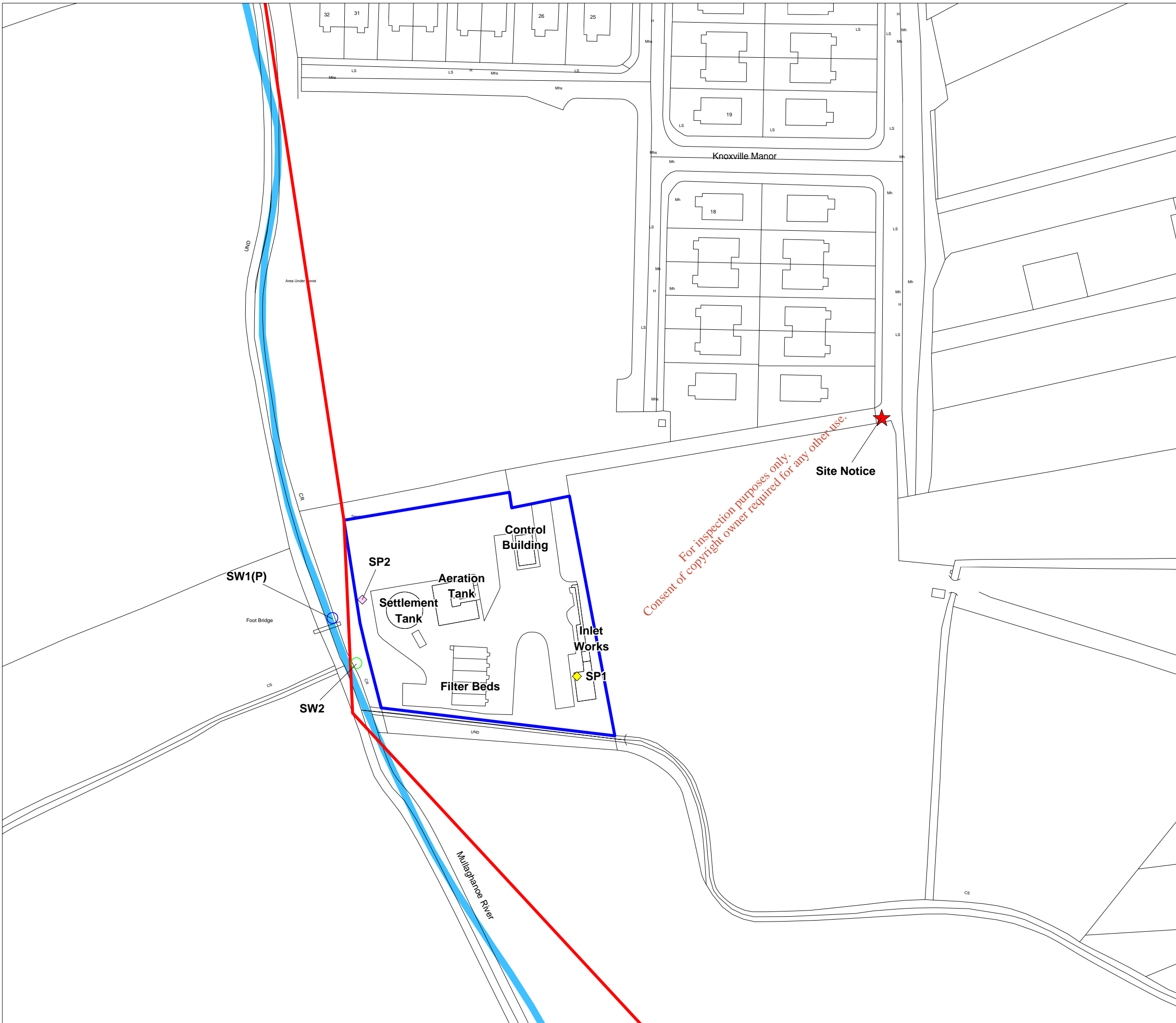
096 60999

www.westernpeople.ie

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Legend

-  Location of Site Notice
-  Charlestown Wastewater Treatment Plant Boundary
-  Agglomeration Boundary



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Drawn By: C Worsfold	Checked By: O. Feeney/ M. O'Grady	Approved By: T. Reidy
Drg. Nr: Map B.8.	Rev: A	
Scale: 1: 1,000	Date: 15.12.08	
Project: Waste Water Discharge Licence Application		
Drg. Title: Charlestown / Bellaghy Wastewater Treatment Plant Location of Site Notice		

**Mayo County Council
G.I.S. Section**

Aras An Chontae,
The Mall, Castlebar,
Co. Mayo, Ireland
Tel: (094) 904 7149
Fax: 094 904 7192



B.9 (ii) Pending Development

Planning has been granted in Charlestown for an additional 25 No. houses which have not yet been constructed.

It is anticipated that the non domestic sector will contribute an additional 50 P.E. to the waste water treatment plant in the short term.

The wastewater treatment plant will cater in the short term for some additional development in Charlestown.

The proposed Waste Water Treatment Plant upgrade will cater for long term development as set out in the preliminary report for Charlestown / Bellaghy Sewerage Scheme.

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Mayo

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost
Ballina Sewerage Scheme (H)	S	20,000,000
Ballina Water Supply Scheme (Ext. to Crossmolina) (H)	W	4,460,000
Castlebar Environs Sewerage Scheme (excl. Advance & Outfall)(H)	S	49,028,000
		73,488,000
Schemes to start 2008		
Achill Sound Sewerage Scheme	S	5,377,000
Ballina Regional Water Supply Scheme (Storage/Mains)(H)	W	10,500,000
Erris Regional Water Supply (Ext. to Glenamoy)	W	2,791,000
Kilmaine & Shrute Water Supply Scheme	W	5,572,000
Kitimagh Sewerage Scheme	S	9,393,000
Lough Mask Regional Water Supply Scheme (Ext. Shrah to Westport and Ext. to Treatment Plant at Tourmakeady)	W	21,350,000
Lough Mask Regional Water Supply Scheme (Ext. to Kiltimagh)	W	7,200,000
Lough Mask Regional Water Supply Scheme (Ext. to Louisburg)	W	6,330,000
Mayo Towns and Villages Sewerage Scheme (Charlestown, Cross, The Neale, Ballyheane, and Crossboyne Sewerage Schemes)	S	6,252,000
		74,765,000
Schemes to start 2009		
Belmullet/ Foxford Sewerage Scheme	S	21,420,000
Killaia Sewerage Scheme	S	5,572,000
Mayo Sludge Management (H)	S	7,354,000
		34,346,000
Serviced Land Initiative		
Ballyhaunis/Derrymore Sewerage Scheme	S	305,000
Charlestown Sewerage Scheme	S	222,000
		527,000
Rural Towns & Villages Initiative		
Newport Sewerage Scheme	S	9,000,000
		9,000,000
Schemes to Advance through Planning		
Ballina Regional Water Supply Scheme (Treatment Plant Upgrade) (H)	W	6,000,000
Cong Water Supply Strategic Study	W	300,000
Lough Conn - East Mayo Regional Water Supply Feasibility Study (incl. Swinford)	W	500,000
		6,800,000
Water Conservation Allocation		6,132,000
Asset Management Study		120,000
Programme Total		205,178,000

(H) Refers to a Hub as designated in the National Spatial Strategy

C.1 Operational Information Requirements:

Description of Existing Charlestown / Bellaghy Waste Water Treatment Plant

Charlestown town

Charlestown is located to the east of County Mayo, approximately 25km north east of Castlebar. It is on the border with County Sligo. The Sligo part of the agglomeration is known as Bellaghy, which is located to the north of Charlestown. Charlestown is located on the junction of the N5/N17. The population of Charlestown in the 2006 census of population stood at 859 persons. A Geo-Directory database, counted between houses and apartments approximately 600 properties in the catchment. DWF at the plant was estimated at 320m³/day.

Charlestown Municipal Wastewater Treatment Plant



Charlestown Waste Water Treatment Plant has been in operation since June 1982.

The plant is actually located in Sligo but Mayo County Council is the owner.

The incoming wastewater is initially received into the preliminary treatment facilities where it is lifted by screw pumps to screening facilities.



Flows in excess of the design capacity overflow a raked bar interceptor screen and are then pumped to a storm discharge by similar overflow pumps. Incoming flows are recorded via a flume and level sensor on their way to secondary treatment.

Preliminary treatment



Screenings are removed manually by a raked bar screen. Grit removal and maceration equipment do not work on site.

Secondary treatment



The screened wastewater then flows forward to the secondary treatment process which consists of an activated sludge process comprising an aeration tank followed by sedimentation.



The aeration tank has an estimated capacity of 425m³ while the sedimentation tank has a diameter of 8.4m.



A sludge pumping station is provided to return the activated sludge from the sedimentation tank to the aeration tank. Waste sludge is withdrawn from tanker and disposed at Swinford WWTP.

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The old drying beds are now redundant.

- SW 1(P) Located on the Mullaghanoe River 147,531E 302,219N



C1.1 Storm Overflows

SW2. A storm flow operates at the treatment plant. Anything greater than 3DWF, overflows a raked bar screen, into a storm sump. Two screw type pumps lift the excess flow into a chamber where it is discharged to the Mullaghanoe River.



SW3. Located on the Swinford Road line, where it turns at the Mullaghanoe River.

SW4. Located on the Galway Road sewer, where it turns northwards at the Mullaghanoe River at the end of the small laneway behind Ballyglass House.

SW5. Located on a 225mm side branch into the Swinford Road sewer just upstream of where it crosses the Mullaghanoe River and joins with the Galway Road sewer.

It is proposed to eliminate this overflow as the downstream sewer has enough capacity to deal with peak storm flows from any rainfall without surcharging.

SW6. Located on the main Bellaghy line, this appears to be a culvert under the N17. Located at a manhole outside the petrol station, just upstream of where it discharges into the main outfall at the railway crossing. It connects up with a second Bellaghy line and a line coming from the Market Square area.

C.1.2 Pumping Stations



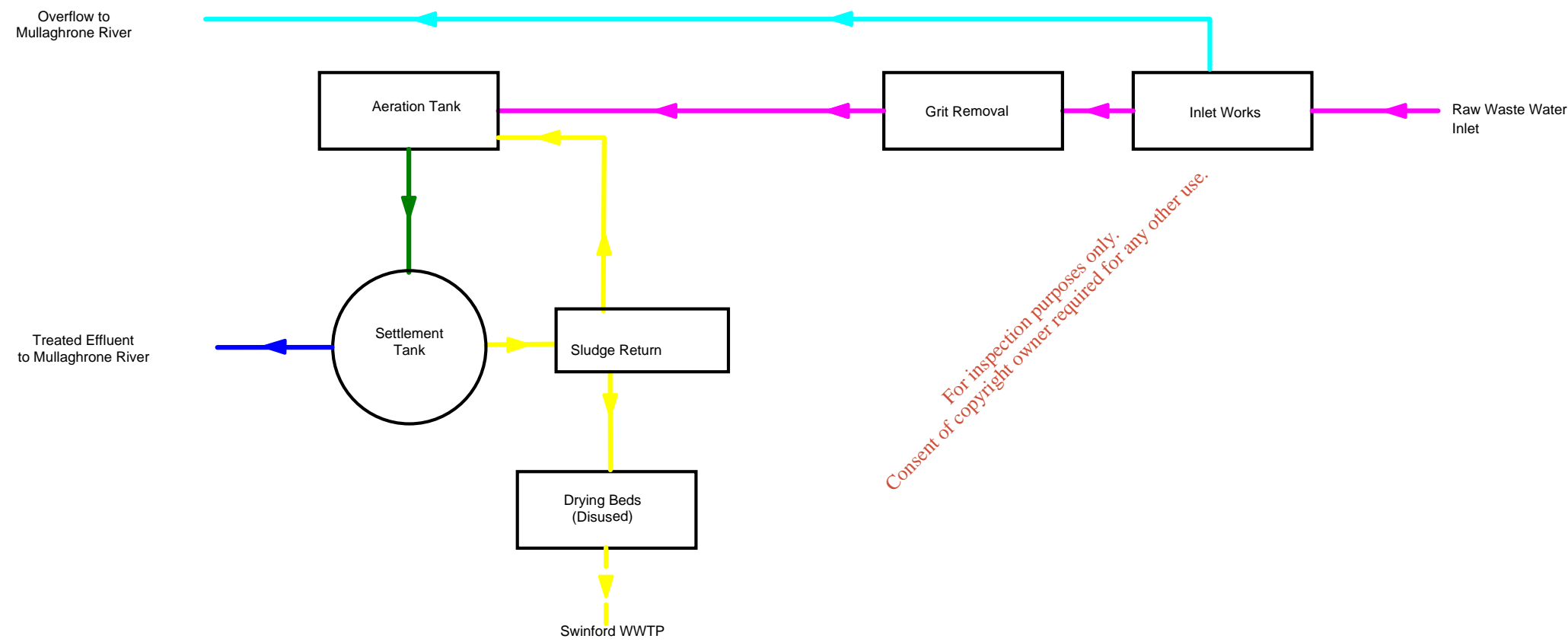
Sligo Road pumping station.
This is a new pumping station in the Co. Sligo area.
It is operational but operated by Sligo County Council.

Ardaara Pumping Station

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Legend:

- Raw Wastewater
- Stormwater
- Sludge
- Final Effluent
- Flow to Secondary Tanks
- - - Dewatered Sludge



Drawn By: C Worsfold	Checked By: O Feeney / M O'Grady	Approved By: T. Reidy
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Drg. Nr: Map C.1.	Rev: A
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Scale: NTS	Date: 20/01/09
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Project:
Waste Water Discharge Licence Application

Drg. Title:
Charlestown / Bellaghy Wastewater Treatment Plant Process Flow Diagram

Mayo County Council
G.I.S. Section

Aras An Chontae,
The Mall, Castlebar,
Co. Mayo, Ireland
Tel: (094) 904 7149
Fax: 094 904 7192



C.2 Outline Description of Outfall Design and Construction

1.0 Primary Discharge Point (P)

1.1 SW1

Location:	River Mullaghane	147,531E 302,234N
Originates:	Final treated effluent from Charlestown / Bellaghy Wastewater treatment plant	
Invert Level:	Unknown	
Pipe Size:	200mm diameter	
Design Criteria:	Open discharge to river	
Construction Detail:	Open discharge to river	

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Agglomeration details

Leading Local Authority	Mayo County Council
Co-Applicants	Sligo County Council
Agglomeration	Charlestown / Bellaghy
Population Equivalent	1200
Level of Treatment	Secondary
Treatment plant address	Charlestown / Bellaghy WWTP Bellaghy Co. Sligo
Grid Ref (12 digits, 6E, 6N)	147571 / 302236
EPA Reference No:	

Contact details

Contact Name:	Paddy Mahon
Contact Address:	Director of Services Ballina Town Council Civic Offices Arran Place Co. Mayo
Contact Number:	096 76100
Contact Fax:	096 76199
Contact Email:	pmahon@mayococo.ie

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Table D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS (Primary Discharge Point)

Discharge Point Code: SW-1

Local Authority Ref No:	SW1(P)	
Source of Emission:	Charlestown / Bellaghy Waste Water Treatment Plant	
Location:	WWTP Bellaghy , County Sligo	
Grid Ref (12 digits, 6E, 6N)	147531 / 302234	
Name of Receiving waters:	Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	Salmonoid River, WFD 1a	
Flow Rate in Receiving Waters:	0.53	m ³ .sec ⁻¹ Dry Weather Flow
	0.09	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Just Downstream of SAC Site Code 002298.	

Emission Details:

(i) Volume emitted			
Normal/day	550 m ³	Maximum/day	600 m ³
Maximum rate/hour	25 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0037037037 m ³ /sec		

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Table D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 7.4	
Temperature	°C	Grab	= 10.1	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 452	
Suspended Solids	mg/l	Grab	= 72	39.6
Ammonia (as N)	mg/l	Grab	= 3.654	2.0097
Biochemical Oxygen Demand	mg/l	Grab	< 2	1.1
Chemical Oxygen Demand	mg/l	Grab	= 39	21.45
Total Nitrogen (as N)	mg/l	Grab	= 7.41	4.0755
Nitrite (as N)	mg/l	Grab	= 0.569	0.31295
Nitrate (as N)	mg/l	Grab	= 3.874	2.1307
Total Phosphorous (as P)	mg/l	Grab	= 0.168	0.0924
OrthoPhosphate (as P)	mg/l	Grab	= 0.13	0.0715
Sulphate (SO ₄)	mg/l	Grab	= 19.37	10.6535
Phenols (Sum)	µg/l	Grab	< 5	0.00275

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	< 0.02	0.000011
Dichloromethane	µg/l	Grab	< 1	0.00055
Simazine	µg/l	Grab	< 0.02	0.000011
Toluene	µg/l	Grab	= 1.6	0.00088
Tributyltin	µg/l	Grab	< 0.02	0.000011
Xylenes	µg/l	Grab	< 1	0.00055
Arsenic	µg/l	Grab	< 0.5	0.000275
Chromium	µg/l	Grab	< 0.5	0.000275
Copper	µg/l	Grab	= 5	0.00275
Cyanide	µg/l	Grab	< 10	0.0055
Flouride	µg/l	Grab	< 100	0.055
Lead	µg/l	Grab	= 0.9	0.000495
Nickel	µg/l	Grab	= 0.9	0.000495
Zinc	µg/l	Grab	= 18	0.0099
Boron	µg/l	Grab	= 14	0.0077
Cadmium	µg/l	Grab	< 0.5	0.000275
Mercury	µg/l	Grab	< 0.05	0.0000275
Selenium	µg/l	Grab	< 0.5	0.000275
Barium	µg/l	Grab	= 64	0.0352

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-2

Local Authority Ref No:	SW2	
Source of Emission:	Charlestown / Bellaghy Waste Water Treatment Plant	
Location:	Charlestown / Bellaghy WWTP, Bellaghy, County Slig	
Grid Ref (12 digits, 6E, 6N)	147537 / 302222	
Name of Receiving waters:	Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	Salmonoid river, WFD 1a	
Flow Rate in Receiving Waters:	0.53	m ³ .sec ⁻¹ Dry Weather Flow
	0.09	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	just downstream of SAC Site Code 002298. We have no volume or emission data for this storm water overflow.	

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr hr/day day/yr
Dry Weather Flow	m ³ /sec		

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Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-3

Local Authority Ref No:	SW3	
Source of Emission:	Swinford Road Sewer	
Location:	South of Swinford Road, Charlestown, Co Mayo	
Grid Ref (12 digits, 6E, 6N)	147821 / 301826	
Name of Receiving waters:	Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	SAC Site Code 002298, salmonoid river, WFD 1A	
Flow Rate in Receiving Waters:	0.53	m ³ .sec ⁻¹ Dry Weather Flow
	0.09	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	We have no volume or emission data for this storm water overflow.	

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr hr/day day/yr
Dry Weather Flow	m ³ /sec		

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Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-4

Local Authority Ref No:	SW4	
Source of Emission:	Galway Road Sewer	
Location:	South of Market Square, Charlestown, Co Mayo	
Grid Ref (12 digits, 6E, 6N)	147835 / 301834	
Name of Receiving waters:	Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	SAC Site Code 002298, salmonoid river, WFD 1A	
Flow Rate in Receiving Waters:	0.53	m ³ .sec ⁻¹ Dry Weather Flow
	0.09	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	We have no volume or emission data for this storm water overflow.	

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr hr/day day/yr
Dry Weather Flow	m ³ /sec		

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Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-5

Local Authority Ref No:	SW5	
Source of Emission:	Swinford Road North branch Sewer	
Location:	North branch Swinford Road, Charlestown, Co Mayo	
Grid Ref (12 digits, 6E, 6N)	147773 / 301899	
Name of Receiving waters:	Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	SAC Site Code 002298, salmonoid river, WFD 1A	
Flow Rate in Receiving Waters:	0.53	m ³ .sec ⁻¹ Dry Weather Flow
	0.09	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	We have no volume or emission data for this storm water overflow.	

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr hr/day day/yr
Dry Weather Flow	m ³ /sec		

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Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-6

Local Authority Ref No:	SW6	
Source of Emission:	Main Street Sewer	
Location:	Main Street, Charlestown, Co Mayo	
Grid Ref (12 digits, 6E, 6N)	147850 / 302092	
Name of Receiving waters:	Tributary of Mullaghanoe River	
Water Body:	River Water Body	
River Basin District	Western RBD	
Designation of Receiving Waters:	Salmonoid river, WFD 1A	
Flow Rate in Receiving Waters:		m ³ .sec ⁻¹ Dry Weather Flow
		m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Just Upstream of SAC Site Code 002298. We have no volume or emission data for this storm water overflow.	

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³	Period of emission (avg)	min/hr hr/day day/yr
Dry Weather Flow	m ³ /sec		

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D.2 Tabular Data on Discharge Points

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	Designation	EASTING	NORTHING
SW1(p)	PRIMARY	MAYO COCO	RIVER	RIVER MULLAGHANOE	The River Mullaghanoe is a designated salmonid river (S.I. No. 293/1988 — European Communities (Quality of Salmonid Waters) Regulations, 1988.) and the primary discharge point is located within this designated river. The River Mullaghanoe is not designated as nutrient sensitive under the Urban Wastewater Treatment Regulations. The River Mullaghanoe also forms part of the River Moy Special Area of Conservation (Site Code 002298) as designated under the European Communities (Natural Habitats) Regulations, 1997 (S.I. No. 94/1997) and all discharge points from the WWTP are located within this SAC. No proposed Natural Heritage Areas or Special Protection Areas are located within a 5km radius downstream of the primary discharge point as assessed using GIS.	147,531	302,234

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TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)
SW-1	365	200750

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TABLE E.1(ii): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Storm Water Overflows

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)	Complies with Definition of Storm Water Overflow
SW-2			No
SW-3			No
SW-4			No
SW-5			No
SW-6			No

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E.2 Monitoring and Sampling Points

Charlestown wastewater treatment plant is designed to treat municipal wastewater to the standards required under the Urban Waste Water Treatment Regulations, 2001. No automatic (24 hour composite) sampling units on site and a flow measurement and recording system are provided downstream of the preliminary units (SP1).

Analysis carried out

On a tri monthly basis a sample of the incoming influent and the final effluent are taken by Mayo County Council external lab analysts to assess the efficiency of the wastewater treatment plant and compliance with the Urban Waste Water Treatment Regulations. The samples are analysed for the following parameters:

- Chemical Oxygen Demand
- Biochemical Oxygen Demand
- Suspended Solids
- pH
- Ortho Phosphorous
- Nitrate-N
- Ammonia
- Sulphate

The analytical procedures used are as per the Standard Methods Book and the Hach DR/2500 Spectrophotometer Handbook.

Flow data of the incoming influent is recorded on a daily basis.

Equipment Maintenance

Preventative Maintenance Inspections of the wastewater treatment plants electrical and mechanical equipment is carried out on a yearly basis to prevent unplanned maintenance at the treatment plant.

Analysis carried out by an external laboratory

On a tri monthly basis the incoming influent, the final effluent, the River Mullaghanoe upstream of the Primary Discharge Point SW1 (P) labelled aSW1u and the River Mullaghanoe downstream of the Primary Discharge Point SW1 (P) labelled aSW1d are analysed by an external laboratory for the following parameters:

- Temperature

- Dissolved Oxygen
- pH
- Chemical Oxygen Demand
- Biochemical Oxygen Demand
- Suspended Solids
- Total Phosphorous as P
- Total Nitrogen as N
- TON as N
- Orthophosphate as P
- Ammonium as NH₄

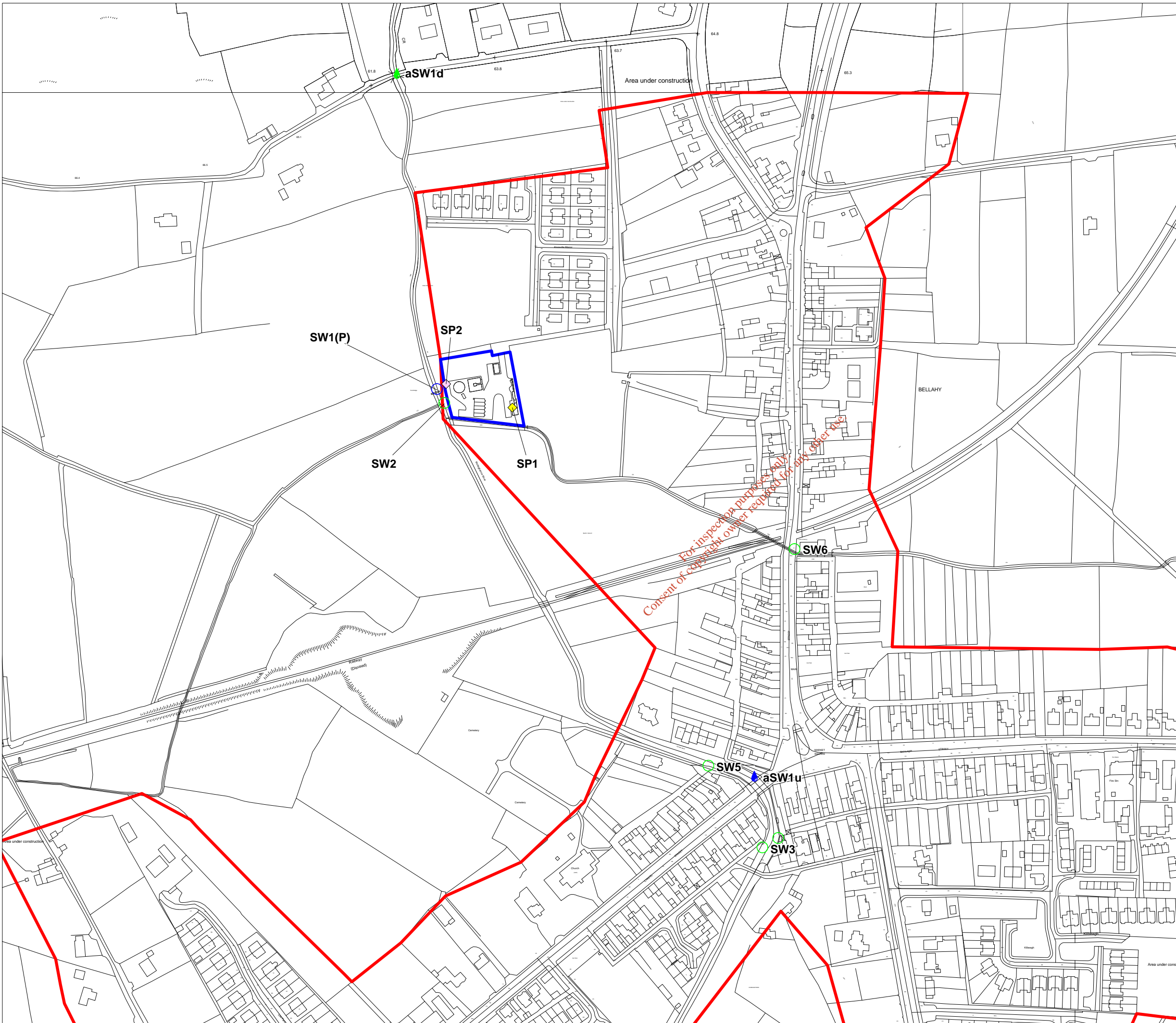
The external laboratory has INAB ISO 17025 accreditation for the following parameters:

- pH
- Chemical Oxygen Demand
- Biochemical Oxygen Demand
- Suspended Solids
- TON as N
- Orthophosphate as P
- Ammonium as NH₄

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Legend

- Agglomeration Boundary
- Charlestown Wastewater Treatment Plant Boundary
- Primary Discharge Point
- Stormwater Discharge Point
- ♂ Upstream Monitoring Point
- ◇ Outlet Sampling Point
- ♂ Downstream Monitoring Point
- ◇ Inlet Monitoring Point



Drawn By: C Worsfold	Checked By: O. Feeney/ M. O'Grady	Approved By: T. Reidy
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Drg. Nr: Map E.2.	Rev: A
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Scale: 1: 2,500	Date: 15.12.08
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Project:
Waste Water Discharge Licence Application

Drg. Title:
**Charlestown /Bellahy Wastewater Treatment Plant
Overview of Location of Sample Points**

**Mayo County Council
G.I.S. Section**

Aras An Chontae,
The Mall, Castlebar,
Co. Mayo, Ireland
Tel: (094) 904 7149
Fax: 094 904 7192

E.3 Tabular Data On Monitoring And Sampling Points

Point Code	Point Type	Monitoring Type	Easting	Northing	Verified
SW1(p)	Primary	sampling	147,531	302,234	
aSW1d	Downsrteam Sampling Point	Sampling	147,495	302,517	
SP1	Inlet Sampling Point	Sampling	147,598	302,219	
SP2	Outlet Sampling Point	Sampling	147,539	302,240	
aSW1u	Upstream Monitoring Point	Sampling	147,814	301,890	

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E.4 Sampling Data

The Urban Waste Water Treatment Directive 91/271/EEC sets standards for final effluent discharged to the receiving waters as follows;

Biochemical Oxygen Demand 25 mg/l O₂

Chemical Oxygen Demand 125 mg/l O₂

Total Suspended Solids 35 mg/l

Sampling by an external laboratory with INAB ISO 17025 accreditation is carried out biannually and the results are included below:

CHARLESTOWN / BELLAGHY WWTP OUTFLOW RESULTS 2008

Parameters	Sample Date	
	25/08/2008	10/11/2008
pH	7.4	7.4
Ammonium(NH ₄)	25.064 mg/l	4.713 mg/l
BOD	26 mg/l	<2 mg/l
COD	70 mg/l	39 mg/l
Ortho-phosphate	2.472 mg/l	0.13 mg/l
Suspended Solids	16 mg/l	72 mg/l
Temperature	15.5 C	10.1 C
Total Nitrogen	24.7 mg/l	7.41 mg/l
TON	<0.1 mg/l	4.44 mg/l
Total Phosphorus	2.619 mg/l	0.168 mg/l

F.1 Assessments of Impacts of waste water discharges on receiving waters

If it is deemed that there is a significant effect on an S.A.C., Mayo County Council will carry out an “appropriate assessment” as part of the Waste Water Licensing Discharge process for Charlestown / Bellaghy.



The River Mullaghanoe flows into the River Moy. The River Moy S.A.C. is Site Code: 002298. It is noted that the primary discharge point SW1 (P) is downstream of the S.A.C.

The River Mullaghanoe is in the / Western River Basin District and has an Overall Risk Category under the Water Frame Work Directive of 1a (at significant risk).

Mullaghanoe River is also a designated Salmonid River – from W.R.B.D. data.

The extent of the assessment however will be scoped with the National Parks & Wildlife Service.

No drinking water extraction points are present on the Mullaghanoe River.

The existing treatment at the plant and compliance with discharge limits are the current measures taken to ensure that discharges from the plant do not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers in the receiving water.

The River Mullaghanoe, which is the receiving water for all discharges from the works, is not designated as a nutrient sensitive river.

The plant is making a volumetric contribution to the receiving water body. The dilution factor available in the receiving water for emissions from the plant is adequate and sufficient to receive the effluent discharged.

TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	147495 / 302517 (Verified using GPS)

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	10/11/08						
pH	= 7.5				Grab	2	CLS 26
Temperature	= 7.6				Grab	-5	Probe
Electrical Conductivity (@ 25°C)	= 223				Grab	1	Probe
Suspended Solids	< 2				Grab	2	CLS 13
Ammonia (as N)	= 0.033				Grab	0.005	Konelab CLS 40
Biochemical Oxygen Demand	< 1				Grab	2	CLS 12
Chemical Oxygen Demand	= 18				Grab	10	CLS 52
Dissolved Oxygen	= 12.34				Grab	0	CLS 75
Hardness (as CaCO ₃)	= 86.7				Grab	20	Konelab CLS 77
Total Nitrogen (as N)	= 3.96				Grab	0.1	CLS 55
Nitrite (as N)	< 0.005				Grab	0.005	Konelab CLS 37
Nitrate (as N)	= 0.55				Grab	0.1	Konelab CLS 39
Total Phosphorous (as P)	= 0.009				Grab	0.01	CLS 57
OrthoPhosphate (as P)	< 0.01				Grab	0.01	Konelab CLS 35
Sulphate (SO ₄)	= 10.32				Grab	5	Konelab CLS 88
Phenols (Sum)	< 5				Grab	0.027	SPE/GCMS

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	147495 / 302517 (Verified using GPS)

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	10/11/08						
Atrazine	< 0.04				Grab	0.003	GC/MS
Dichloromethane	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Simazine	< 0.04				Grab	0.007	GC/MS
Toluene	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Tributyltin	< 0.02				Grab	0.02	GC
Xylenes	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Arsenic	= 0.6				Grab	0.5	ICP-MS CLS 129
Chromium	< 0.5				Grab	0.5	ICP-MS CLS 129
Copper	= 1				Grab	1	ICP-MS CLS 129
Cyanide	< 10				Grab	0.7	Colorimetric
Flouride	< 100				Grab	100	ICP-MS CLS 129
Lead	< 0.5				Grab	0.5	ICP-MS CLS 129
Nickel	= 1				Grab	0.5	ICP-MS CLS 129
Zinc	< 5				Grab	5	ICP-MS CLS 129
Boron	< 10				Grab	10	ICP-MS CLS 129
Cadmium	< 0.5				Grab	0.5	ICP-MS CLS 129
Mercury	< 0.05				Grab	0.05	ICP-MS CLS 103
Selenium	< 0.5				Grab	0.5	ICP-MS CLS 129
Barium	= 66				Grab	0.5	ICP-MS CLS 129

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Additional Comments:	
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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	147814 / 301890 (Verified using GPS)

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	10/11/08						
pH	= 7.6				Grab	2	CLS 26
Temperature	= 7.7				Grab	-5	Probe
Electrical Conductivity (@ 25°C)	= 206				Grab	1	Probe
Suspended Solids	= 2				Grab	2	CLS 13
Ammonia (as N)	< 0.005				Grab	0.005	Konelab CLS 40
Biochemical Oxygen Demand	< 1				Grab	1	CLS 12
Chemical Oxygen Demand	= 24				Grab	10	CLS 52
Dissolved Oxygen	= 12.2				Grab	0	CLS 75
Hardness (as CaCO ₃)	= 80.8				Grab	20.0	Konelab CLS 77
Total Nitrogen (as N)	= 2.51				Grab	0.1	CLS 55
Nitrite (as N)	< 0.005				Grab	0.005	Konelab CLS 37
Nitrate (as N)	= 0.541				Grab	0.1	Konelab CLS 39
Total Phosphorous (as P)	= 0.023				Grab	0.01	CLS 57
OrthoPhosphate (as P)	< 0.01				Grab	0.01	Konelab CLS 35
Sulphate (SO ₄)	= 6.38				Grab	5.0	Konelab CLS 88
Phenols (Sum)	< 5				Grab	0.027	SPE/GCMS

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	147814 / 301890 (Verified using GPS)

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	10/11/08						
Atrazine	< 0.04				Grab	0.003	GC/MS
Dichloromethane	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Simazine	< 0.04				Grab	0.007	GC/MS
Toluene	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Tributyltin	< 0.02				Grab	0.02	GC
Xylenes	< 1				Grab	1.0	GCMS, (USEPA 8260B)
Arsenic	< 0.5				Grab	0.5	ICP-MS CLS 129
Chromium	< 0.5				Grab	0.5	ICP-MS CLS 129
Copper	= 1				Grab	1	ICP-MS CLS 129
Cyanide	< 10				Grab	0.7	Colorimetric
Flouride	< 100				Grab	100	LC
Lead	< 0.5				Grab	0.5	ICP-MS CLS 129
Nickel	< 0.5				Grab	0.5	ICP-MS CLS 129
Zinc	< 5				Grab	5	ICP-MS CLS 129
Boron	< 10				Grab	10	ICP-MS CLS 129
Cadmium	< 0.5				Grab	0.5	ICP-MS CLS 129
Mercury	< 0.05				Grab	0.05	ICP-MS CLS 103
Selenium	< 0.5				Grab	0.5	ICP-MS CLS 129
Barium	= 57				Grab	0.5	ICP-MS CLS 129

Additional Comments:	
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G.1 Compliance with Council Directives

Charlestown wastewater treatment plant and agglomeration were planned and designed in such a way that the emissions from the agglomeration would comply with /not result in the contravention of all relevant Council Directives.

All upgrades, expansions and improvements to Charlestown wastewater treatment plant and agglomerations in the future will ensure that the emissions from the agglomeration would comply with/not result in the contravention of the;

- Dangerous Substance Directive 2006/11/EC
- Water Framework Directive 2000/60/EC
- Birds Directive 79/409/EEC
- Groundwater Directive 80/68/EEC & 2006/118/EC
- Drinking Water Directive 80/778/EEC
- Urban Waste Water Treatment Directive 91/271/EEC
- Habitats Directive 92/43/EEC
- Environmental Liabilities Directive 2004/35/EC
- Bathing Water Directive 76/160/EEC
- Shellfish Directive 79/923/EEC

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G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998)

Charlestown / Bellaghy Wastewater Treatment Plant is included for upgrading under the Water Services Investment Programme 2007 - 2009. (See Attachment B.10). This upgrading will ensure that emissions from the new treatment plant will comply with the phosphorous regulations (S.I. No. 258 of 1998).

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G.3 Impact Mitigation

Charlestown / Bellaghy Wastewater Treatment Plant is included for upgrading under the Water Services Investment Programme 2007 -2009. (see Attachment B.10)

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G.4 Storm Water Overflow

Charlestown / Bellaghy Wastewater Treatment Plant is included for upgrading under the Water Services Investment Programme 2007 - 2009. (see Attachment B.10)

The preliminary report for Charlestown / Bellaghy Sewerage scheme includes for the removal, where possible, of storm water overflows.

Mayo County Council requires developers to separate foul and storm water sewers and to include SUDs in the design of surface water management systems.

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Annex 2: Check List For Regulation 16 Compliance

Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal requirements of regulation 16 of the 2007 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s), of your application which contains(s) the information requested in the appropriate sub-article.

Regulation 16(1) In the case of an application for a waste water discharge licence, the application shall -		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office or principal office,	Section B.1	Yes
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,	Section B.1	Yes
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,	Section B.2	Yes
(d)	state the population equivalent of the agglomeration to which the application relates,	Section B.9	Yes
(e)	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,	Attachment D.1	Yes
(f)	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the discharge.	Attachment D.1(i)(a) D1(III)(a)	Yes
(g)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,	Attachment E.2 including Map, Attachment E.3 & F.1	Yes
(h)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,	Attachment D1(i) (b) & (c) & Attachment E.4	Yes
(i)	describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges,	Attachments G.1, G.2, G3 & G4	Yes
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,	Not Applicable	Yes
(k)	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,	Attachment F.1	Yes
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,	Attachment G.1	Yes
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.	Attachment G.1	Yes
(n)	Any other information as may be stipulated by the Agency.	Not Applicable	Yes
Regulation 16(3) Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -		Attachment Number	Checked by Applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,	Attachment B.8	Yes
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,	Attachment B.7(iii)	Yes
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -	Included	Yes
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and	Attachment B.3 & Attachment B.5	Yes
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,	Attachment E.2 including Map & E.3	Yes
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	Section B.9	Yes

Regulation 16(4) An original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.		Attachment Number	Checked by Applicant
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agency.	Included	Yes
Regulation 16(5) For the purpose of paragraph (4), all or part of the 2 copies of the said application and associated documents and particulars may, with the agreement of the Agency, be submitted in an electronic or other format specified by the Agency.		Attachment Number	Checked by Applicant
1	Signed original.	Included	Yes
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.	Included	Yes
3	1 CD of geo-referenced digital files provided.	Included	Yes
Regulation 17 Where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency		Attachment Number	Checked by Applicant
1	EIA provided if applicable	Not Applicable	Yes
2	2 hardcopies of EIS provided if applicable.	Not Applicable	Yes
3	2 CD versions of EIS, as PDF files, provided.	Not Applicable	Yes

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