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IW-ER-LT0191

Re: Wastewater Discharge Licence Timoleague (D0466-01) and Courtmacsherry (D0294-01). Regulation 18(3) (b) response.

Dear Ms Joyce,

In response to the Regulation 18(3) (b)-2 request for further information notice dated the 10th March 2014, please see below relevant information.

Confirm in writing the details of the proposed waste water treatment plant which would serve Timoleague and Courtmacsherry.

At present, there is no wastewater treatment system in Timoleague. Untreated wastewater from the village discharges directly to the River Aigidden / Courtmacsherry Estuary at five locations as set out below

- 720 mm diameter outfall discharging directly to estuary at Abbey Bridge (this outfall was referred to as SW01 TIMO - grid ref. 147200E, 43523N - in the original Timoleague application which is now to be withdrawn)
- 150 mm diameter outfall discharging into Estuary at School Road south of Abbey Bridge (this outfall was referred to as SW02 TIMO – grid ref. 147132E, 43496N - in the original Timoleague application which is to be withdrawn)
- 100 mm diameter outfall discharging into the estuary adjacent to the school west of Abbey Bridge (this outfall was referred to as SW03 TIMO – 147141E, 43507N - in the original Timoleague application which is to be withdrawn)
- 150 mm diameter outfall discharging to the estuary between Abbey Bridge and Church Bridge adjacent to Timoleague Abbey (this outfall was referred to as SW04 TIMO – grid ref 147209E, 43702N - in the original Timoleague application which is to be withdrawn)

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- Outfall located just south of Church Bridge (this outfall was referred to as SW05 TIMO - grid ref. 147176E, 43789N - in the original Timoleague application which is to be withdrawn)

These outfalls will remain in operation until the planned new single wastewater treatment plant to serve the combined Courtmacsherry and Timoleague Agglomeration is operational. Further details of these overflows is included in the original Timoleague Agglomeration application.

The existing waste water treatment plant in Courtmacsherry consists of two septic tanks. The main septic tank located near the centre of the village is a septic tank designed to cater for 500 PE which discharges to the tidal channel 172 metres to the north-east in Courtmacsherry Harbour. The discharge from this septic tank is referred to SW01 COUR in the original Courtmacsherry Agglomeration. The second septic tank, located at the western end of the village, currently serves 15 no houses at St John's Place estate, this secondary septic tank is referred to as SW02 COUR in the original Courtmacsherry Agglomeration application and discharges to the low water channel of the estuary. The current capacity and operation of the Courtmacsherry treatment system is inadequate to meet the requirements of the village.

In 2008, a Preliminary Report was prepared which presents a proposal for the treatment of sewage discharges from both the Timoleague and Courtmacsherry agglomerations. As outlined in the Preliminary Report, it is proposed that a new single wastewater treatment plant be constructed approximately 0.25km west of Courtmacsherry, serving both Timoleague and Courtmacsherry agglomerations, to provide a level of treatment to meet the requirements of the Urban Wastewater Treatment Directive.

In 2012 a Design Review Report was prepared which presents the findings of a thorough review of the proposal and design criteria established in the Preliminary Report. It is proposed that a revised Phase 1 for Courtmacsherry and Timoleague sewage scheme of 2,500 population equivalent (PE) is appropriate to meet the current and medium to long term future capacity requirements. Irish Water is currently reviewing the design PE for Courtmacsherry and Timoleague sewage scheme.

It is proposed that the outfall from the combined Courtmacsherry and Timoleague Agglomeration shall be located at the existing outfall discharge point from the main septic tank in Courtmacsherry village. The secondary septic tank at St John's Place at the western end of Courtmacsherry village is to be decommissioned and the flows diverted to the existing private Harbour Court PS. The flows collected at Harbour Court PS are pumped to the main septic tank. This main septic tank is to be converted into the main pumping station to serve Courtmacsherry. This new pumping station, will pump all of the flows from the Courtmacsherry area of the combined Agglomeration to a new wastewater treatment plant to serve Courtmacsherry and Timoleague. When the new wastewater treatment plant is operational the existing private wastewater treatment plant serving Harbour Court housing estate and the adjacent housing estate will be decommissioned. The existing discharges to the estuary in Timoleague are to be intercepted and diverted to a new pumping station, Timoleague PS, before pumping to the new wastewater treatment plant. The location of the proposed waste water treatment plant is shown in Appendix 1, Drawing C.2-11.

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Subject to the above confirmation please review the status of the two licence applications currently before the Agency, in particular you may wish to request withdrawal of the application for a Waste Water Discharge Licence for Timoleague (D0467-01) and include the Timoleague agglomeration within the Courtmacsherry agglomeration licence application. You may request a refund of the fee for Timoleague, however refund of any fee will be at the discretion of the Agency;

Irish Water wish to withdraw the Application for a Wastewater Discharge Licence for Timoleague (D0467-01) and include the Timoleague agglomeration within the Courtmacsherry agglomeration licence application (D0294-01). The existing outfalls in Timoleague will remain in operation until the planned new single wastewater treatment plant to serve both the Timoleague and Courtmacsherry agglomerations is operational.

The current peak summer loading population equivalent (PE) for the combined agglomerations of Timoleague (460 PE) and Courtmacsherry (1,450 PE) is 1,910 PE including the non-domestic contributions. The projected year 2021 peak summer loading for the combined agglomeration of Timoleague (475 PE) and Courtmacsherry (1,520 PE) is 1,995 PE i.e. population in the range 1,001-2,000 PE and subject to a fee of €15,000.

In this regard it is noted that a licence fee of €15,000 was paid to the EPA on 13th February 2009 for the Courtmacsherry agglomeration. A fee of €10,000 was paid to the EPA on 21st May 2009 for the Timoleague agglomeration. We are therefore seeking a refund of €10,000, being the fee previously paid with the Timoleague license application.

Should you decide to include the Timoleague Agglomeration within the Courtmacsherry agglomeration please provide the following information in support of the Courtmacsherry Waste Water Discharge Licence application (D0294-01):

- **Identify the Appropriate category of licence application for the combined Courtmacsherry and Timoleague agglomerations**

Irish Water wish to withdraw the Application for a Wastewater Discharge Licence for Timoleague (D0467-01) and include the Timoleague agglomeration within the Courtmacsherry agglomeration licence application (D0294-01). The existing outfalls in Timoleague will remain in operation until the planned new single wastewater treatment plant to serve both the Timoleague and Courtmacsherry agglomerations is operational.

The current peak summer loading population equivalent (PE) for the combined agglomerations of Timoleague (460 PE) and Courtmacsherry (1,450 PE) is 1,910 PE including the non-domestic contributions. The projected year 2021 peak summer loading for the combined agglomeration of Timoleague (475 PE) and Courtmacsherry (1,520 PE) is 1,995 PE, based on a growth rate of 0.644%¹ per annum for six years, i.e. the agglomeration population equivalent is in the range 1,001-2,000 PE and subject to a fee of €15,000.

¹ Based on ESRI County Growth Rate Estimates

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In this regard it is noted that a licence fee of €15,000 was paid to the EPA on 13th February 2009 for the Courtmacsherry agglomeration. A fee of €10,000 was paid to the EPA on 21st May 2009 for the Timoleague agglomeration. We are therefore seeking a refund of €10,000, being the fee previously paid with the Timoleague license application.

- **An updated agglomeration name as appropriate**

The updated agglomeration name shall be "Courtmacsherry and Timoleague Agglomeration".

- **An updated agglomeration map to include Timoleague and Courtmacsherry agglomerations and the proposed waste water treatment plant within the red line boundary**

The updated agglomeration boundary is shown on the drawings "Agglomeration Updates Timoleague and "Agglomeration Updates Courtmacsherry" included in Appendix 2 and the proposed wastewater treatment plant within the red line boundary on "Agglomeration Updates Courtmacsherry".

- **An updated discharge map to include the discharges associated with the combined agglomeration e.g. primary discharge at Courtmacsherry, secondary discharge(s) at Timoleague and stormwater overflows**

Updated discharge maps for the combined agglomeration when the planned wastewater treatment plant to serve both Courtmacsherry and Timoleague is operational are included in Appendix 3.

The proposed Primary Discharge point PSW1 at Courtmacsherry for the combined agglomeration (i.e. for Licence No. D0294) is shown on Drawing C2-11 in Appendix 1. It should be noted that this is the location of the existing Primary Discharge serving Courtmacsherry. This existing Primary Discharge is referred to as SW01 COUR in the original Courtmacsherry Agglomeration application.

There will be no Secondary Discharges from the Courtmacsherry and Timoleague Agglomeration when the new treatment plant serving the combined agglomeration is operational. However until the new wastewater treatment plant is operational the existing Secondary Discharge from St John's Place estate septic tank will remain operational. This discharge was referred to as SW02 COUR in the original Courtmacsherry Agglomeration application.

When the proposed works are completed four Stormwater Overflows, associated with the existing and proposed pump stations at Courtmacsherry and Timoleague shown in Drawing B.5-09 in Appendix 3 will be the Stormwater Overflows from the combined Courtmacsherry and Timoleague Agglomeration. Until the works are completed the existing Stormwater Overflows identified in the individual Timoleague Agglomeration and Courtmacsherry Agglomeration applications will remain operational.

- **The proposed primary (and secondary) discharge location coordinates and proposed primary (and secondary) discharge sampling coordinates and proposed storm water overflow coordinates (6E, 6N grid reference)**

PRIMARY DISCHARGES & SAMPLING POINTS

The proposed Primary Discharge location for the combined agglomeration when the new wastewater treatment plant is operational is PSW1. The location of this discharge location is shown on drawing C.2-11 in Appendix 1. The coordinates of this discharge location is set out in the table overleaf. This is also the location of the existing Primary Discharge from the main septic tank in Courtmacsherry. This

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Primary Discharge is referred to as SW01 COUR in the original Courtmacsherry Agglomeration application.

The existing Primary Discharge from Timoleague (referred to as SW01 TIMO in the original Timoleague agglomeration application) will be retained as a Secondary Discharge for the combined Courtmacsherry and Timoleague Agglomeration until the new pumping station at Timoleague and the new WWTP to serve both Courtmacsherry and Timoleague Agglomeration are operational.

Proposed Primary Discharge for combined Courtmacsherry and Timoleague Agglomeration	Easting	Northing
PSW1	150732E	042818N
Existing Primary Discharges identified in original applications to be retained until new WWTP operational	Easting	Northing
Courtmacsherry – SW01 COUR <i>(to be considered as the Primary Discharge for the combined agglomeration)</i>	150732E	042818N
Timoleague – SW01 TIMO <i>(to be considered a Secondary Discharge in combined agglomeration until WWTP operation)</i>	147200E	043523N

Sampling of the proposed Primary Discharge will be within the site of the proposed WWTP at location ESW1 co-ordinates as shown in Appendix 1, drawing C.2-11 and set out in the table below. The location of the existing sampling points at Timoleague and Courtmacsherry are also set out in the table below. These existing sampling points will remain operational until the new WWTP to serve the combined Courtmacsherry and Timoleague Agglomeration is operational.

Proposed Effluent Sampling for combined Courtmacsherry and Timoleague Agglomeration	Easting	Northing
ESW1	149744E	042326N
Existing Primary Sampling Points to be retained until new WWTP operational	Easting	Northing
Courtmacsherry - influent	151486E	042741N
Courtmacsherry - effluent	150566E	042741N
Timoleague	147200E	043523N

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SECONDARY DISCHARGES

There will be no Secondary Discharges from the Courtmacsherry and Timoleague Agglomeration when the new wastewater treatment plant serving the combined agglomeration is operational. However until the new wastewater treatment plant is operational the existing Secondary Discharge from St John's Place estate septic tank in Courtmacsherry will remain as a Secondary Discharge for the combined Courtmacsherry and Timoleague Agglomeration. This discharge was referred to as SW02 COUR in the original Courtmacsherry Agglomeration application.

The existing 5 no. discharges in Timoleague will also remain operational as Secondary Discharges for the combined Courtmacsherry and Timoleague Agglomeration until the new wastewater treatment plant is operational. Details of the Secondary Discharges in the combined agglomeration before and after the new wastewater treatment plant is operational are set out in the table below. The references in the table refer to the references in the original Timoleague Agglomeration application. SW01 TIMO which was identified as the Primary Discharge for the Timoleague agglomeration will be a Secondary Discharge in the combined Courtmacsherry and Timoleague Agglomeration until the new wastewater treatment plant is operational.

Secondary Discharges for combined Courtmacsherry and Timoleague Agglomeration when new WWTP is operational	Easting	Northing
None	n/a	n/a
Secondary Discharges for combined Courtmacsherry and Timoleague Agglomeration until new WWTP is operational (references refer to original applications)	Easting	Northing
SW02 COUR – Courtmacsherry <i>(discharge from st John's Place septic tank)</i>	150106E	042711N
SW01 TIMO - Timoleague <i>(to be considered a Secondary Discharge in combined agglomeration until WWTP operation)</i>	147200E	043523N
SW02 TIMO - Timoleague	147132E	043496N
SW03 TIMO - Timoleague	147141E	043507N
SW04 TIMO - Timoleague	147209E	043702N
SW05 TIMO - Timoleague	1472176E	043789N

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STORMWATER OVERFLOWS

The proposed stormwater overflows from the combined Courtmacsherry and Timoleague Agglomeration are as follows and shown on Drawing B.5-09 in Appendix 3.

Proposed Stormwater Overflows for combined Courtmacsherry and Timoleague Agglomeration	Easting	Northing
SW1 (overflow from proposed Timoleague PS)	147199E	043523N
SW2 (overflow from existing Harbour Court PS)	150038E	042674N
SW3 (overflow from proposed Harbour PS via existing Primary Discharge location)	150732E	042818N
SW4 (overflow from existing Lodge PS near end of pier)	151489E	042561N

The existing storm overflows from the separate Timoleague and Courtmacsherry agglomerations are set out in the table below. The reference numbers in the table refer to the reference numbers in the original Timoleague Agglomeration and the original Courtmascherry Agglomeration application. These existing overflows will remain operational until the new WWTP and network to serve the combined Courtmacsherry and Timoleague agglomeration is operational.

Existing Stormwater Overflow Discharge Locations at Timoleague (refer to original application for location drawings)	Easting	Northing
None	n/a	n/a
Existing Stormwater Overflow Discharge Locations at Courtmacsherry (refer to original application for location drawings)	Easting	Northing
SW03 COUR (overflow from Lodge PS discharging near end of pier to be retained as SW4 in combined agglomeration)	151498E	42565N
SW04 COUR (overflow in front of main septic tank discharging to primary discharge location to be retained as SW3 in combined agglomeration)	150732E	42818N

- **The new estimated normal waste water discharge in m³/day from the proposed waste water treatment plant**

The new estimated normal waste water discharge from the proposed Waste Water treatment plant is 562 m³/day.

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- **Detail the proposed pumping stations and any associated emergency overflows when the proposed treatment plant has been constructed**

The existing pumping stations are located at Lodge PS and Harbour Court PS in Courtmacsherry. The proposed pumping stations are located at Timoleague PS and Courtmacsherry Harbour PS. The locations of these pumping stations are adjacent to the overflows shown in Appendix 3 Drawing B.5 – 09. The proposed Harbour PS shown in Appendix 1 Drawing C.2-11 discharges to SW3 as detailed below.

Each of these pumping stations will have an associated emergency overflow which also serves as a storm water overflow, the locations of which are shown in the table below:

Unique Point Code	Location	Easting	Northing
SW1	Timoleague PS (proposed)	147199E	043523N
SW2	Harbour Court PS (existing)	150038E	042674N
SW3	Harbour PS (Courtmacsherry) (proposed)	150732E	042818N
SW4	Lodge PS (existing)	151489E	042561N

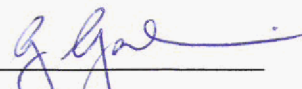
- **Timeframes for the construction of the proposed waste water treatment plant**

The timeframe for the construction of the proposed wastewater treatment plant is unknown at this stage as the proposed scheme is at pre-planning stage. The proposed WWTP is currently at detailed design stage in advance of construction. It is envisaged that the WWTP construction will form part of a design build operate contract and is currently under review by Irish Water in the context of national capital spend on Water/Waste water Infrastructure.

- **Confirm that the outfall associated with the proposed waste water treatment plant has been included in the Timoleague and Courtmacsherry Sewerage Scheme Assessment of Ecological Constraints, January 2005 submitted with the waste water licence applications**

It is proposed to utilise the existing Courtmacsherry outfall as the proposed outfall of the new waste water treatment plant. This outfall has been included in "Timoleague and Courtmacsherry Sewerage Scheme Assessment of Ecological Constraints, January 2005" submitted with the waste water licence applications.

Kind Regards,



Gerry Galvin
Chief Technical Advisor

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