

BALLINA & LOUGH TALT WATER SUPPLY ZONES (WSZ) UPGRADE

ABP-322333-25

PRE-APPLICATION CONSULTATION MEETING

28th July, 2025

AGENDA

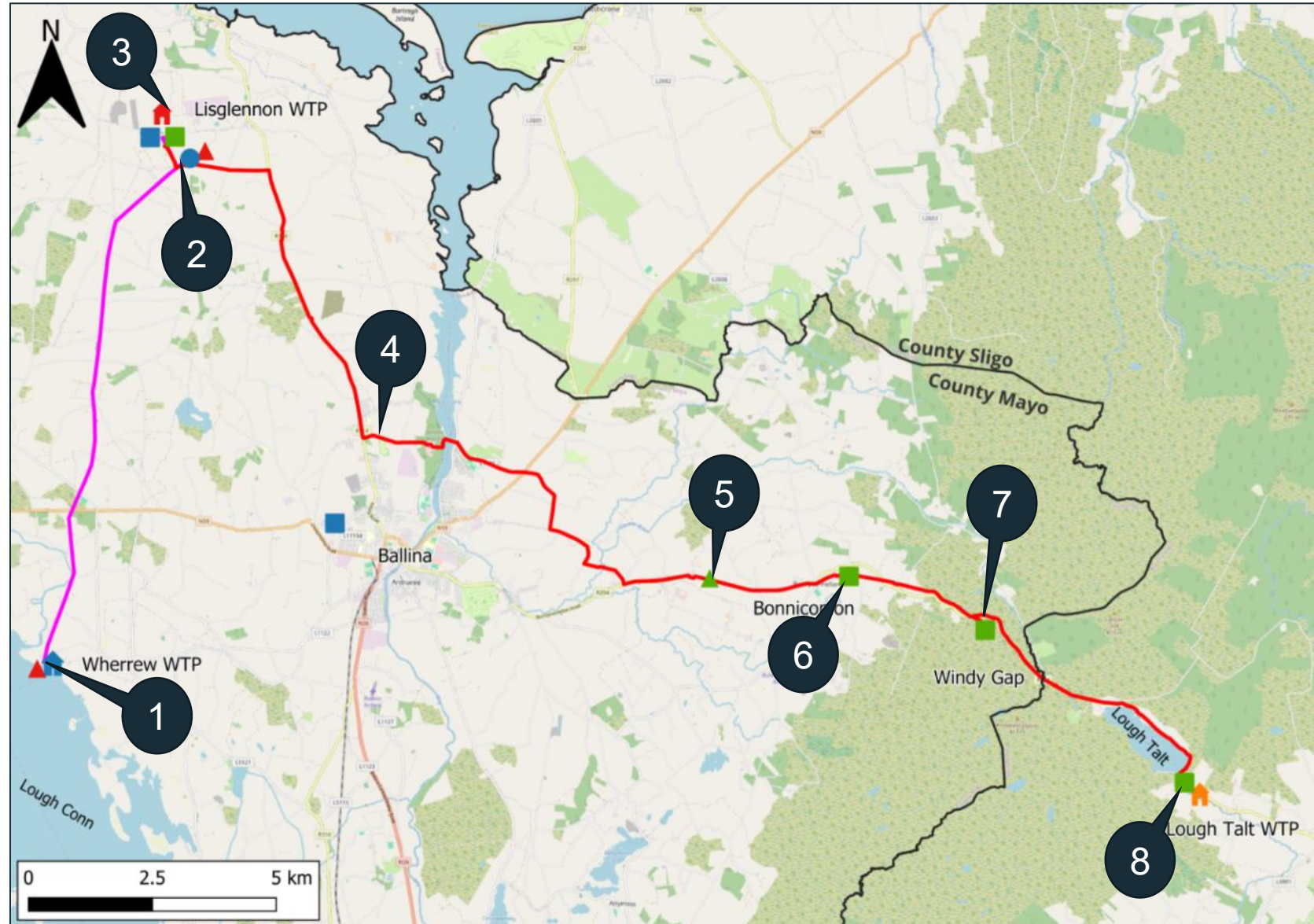
1. Introductions
2. Scheme Overview
3. Wherrew Intake Works Upgrade
4. Lisglennon Raw Water PS Upgrade
5. Lisglennon WTP Upgrade
6. Lisglennon to Lough Talt Treated Water Pipeline
7. Lough Talt WTP Proposals
8. Environmental and Planning
9. Programme
10. Way Forward
11. Discussion

Scheme Overview

Scheme Overview

SCOPE

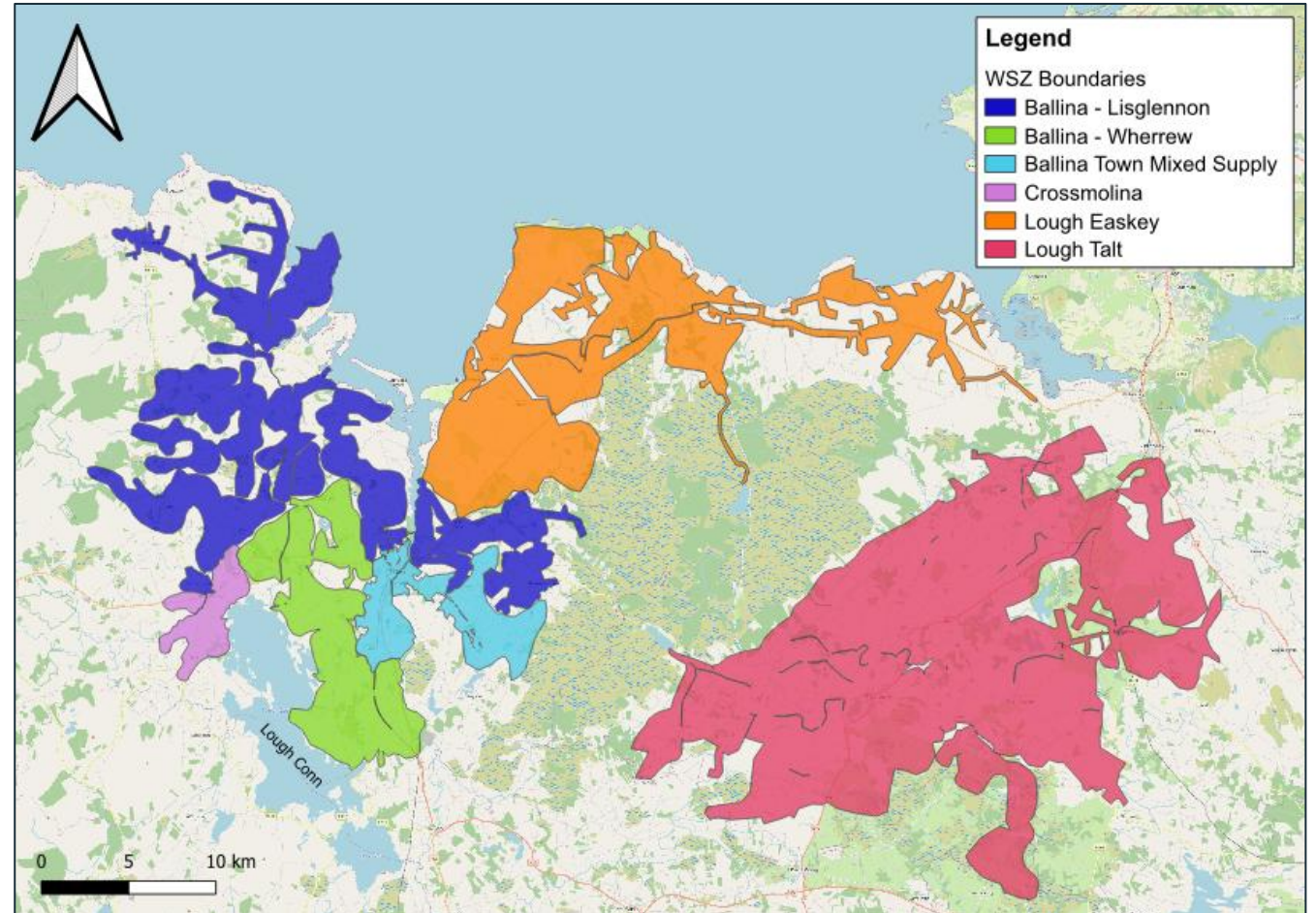
1. Wherrew RWPS Upgrade
2. Lisglennon RWPS Upgrade
3. Lisglennon WTP Upgrade
4. New Lisglennon to Lough Talt Treated Water Pipeline
5. New Treated Water Booster Pumping Station
6. New Bonnicolun Reservoir
7. New Break Pressure Tank
8. Lough Talt WTP Repurposed for Treated Water Storage



Supply Demand

Total Demand to be Served by Scheme

- Abstraction: 38.1 MLD (incl. provision for future industry)
- WTP: 22.6 MLD
- Trunk Main: 26.5 MLD (incl. entire Lough Easkey RWSS)



Wherrew Intake Works

Intake Works

Current Configuration:

Channel: 50m long by 20m wide earth channel lined with rocks.

Intake structure: four reinforced concrete channels, each equipped with coarse and fine screens in series and penstocks.

Key issues:

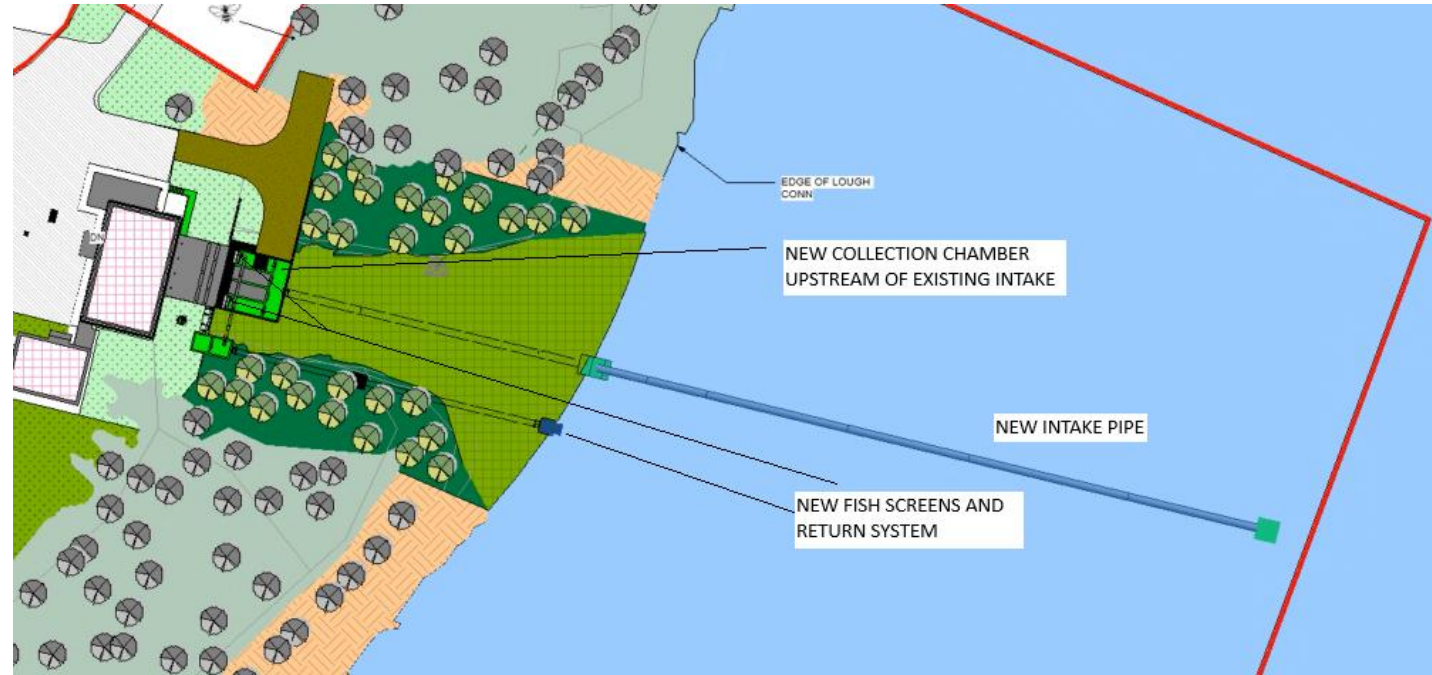
- Silt Build Up over time at the mouth of the intake channel
- Fish Entering Lisglennon Raw Water Storage site.



Wherrew Intake Works

Proposed Modifications:

- ✓ New intake pipeline and screens.
- ✓ Two new fish screens, including extension of the concrete intake structure.
- ✓ Pipeline from the intake structure to the lake for return of fish to the lake.



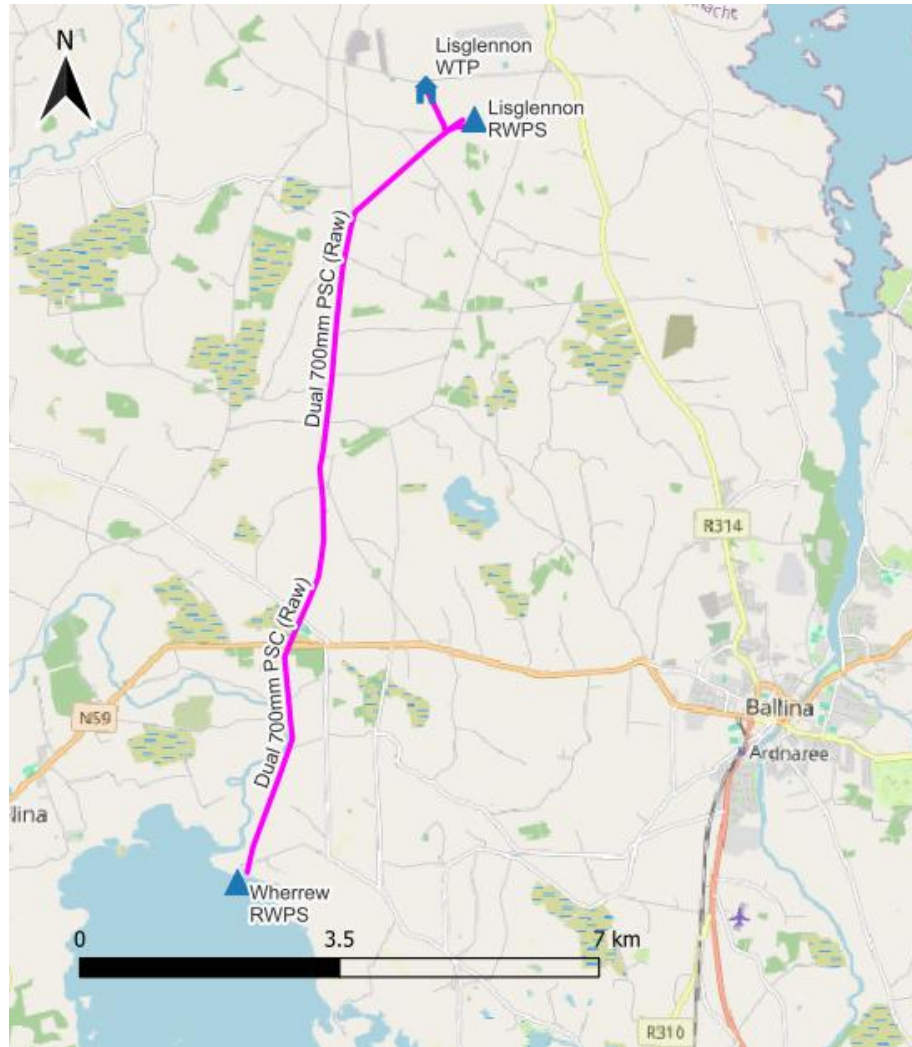
Wherrew Raw Water Pumping Station



Proposed Design:

- Pressure and flow measuring instrumentation
- Alterations to the current MCC and HMI
- Renewable energy (solar PV cells)

Wherrew to Lisglennon Raw Water Rising Main



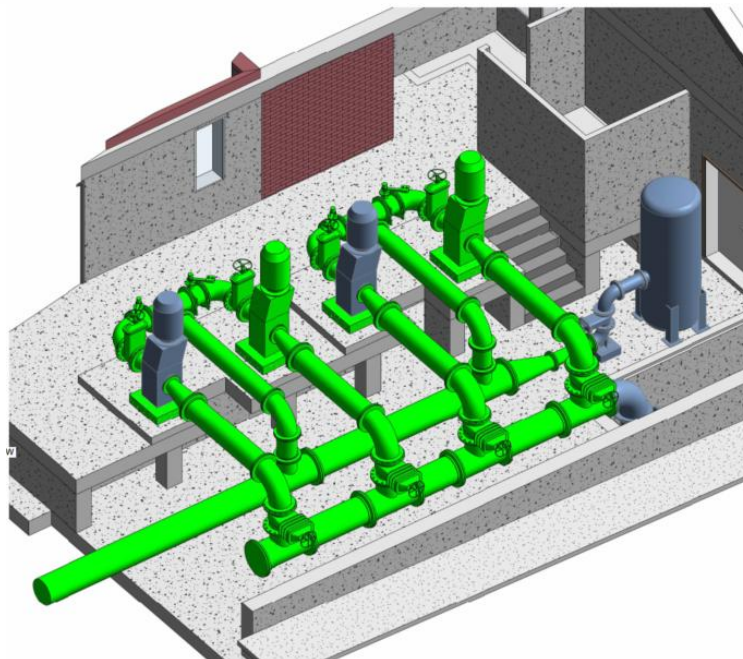
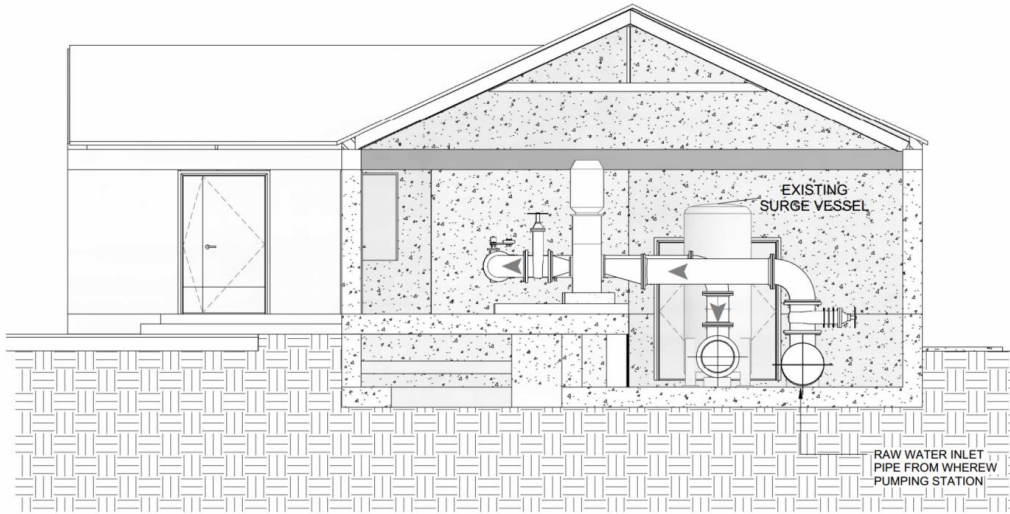
- Existing twin 700mm RM to be retained
- Length: 11,018m
- Discharge to inlet chamber/break-pressure tank at Lisglennon RWPS

Lisglennon Raw Water Pumping Station

Lisglennon Raw Water Pumping Station



Lisglennon Raw Water Pumping Station



Proposed Design

- 2 new Horizontal Split Case vertically mounted pumps with 75kW motors to replace existing non functional end suction pumpsets to bring back standby capacity
- Replacement of the pipework and valves within the pumphouse.
- Pressure, level and flow measuring instrumentation.
- Minor structural remedial works to Break Pressure Tank and Raw Water Storage

Lisglennon RWPS to WTP Raw Water Rising Main

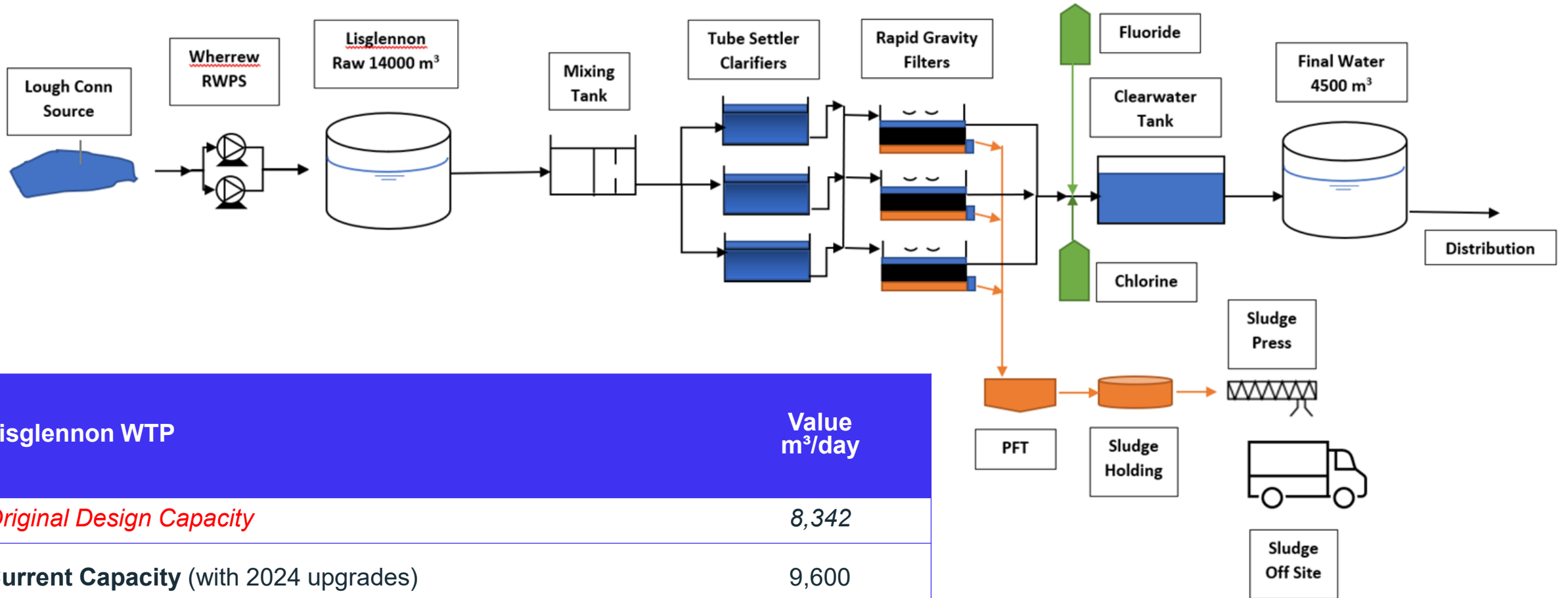
Proposed Design:

- New ca. 1,021m of 630mm OD HDPE SDR17 trunk rising main
- Retention of the existing 300mm OD rising main as a maintenance bypass.



Lisglennon Water Treatment Plant

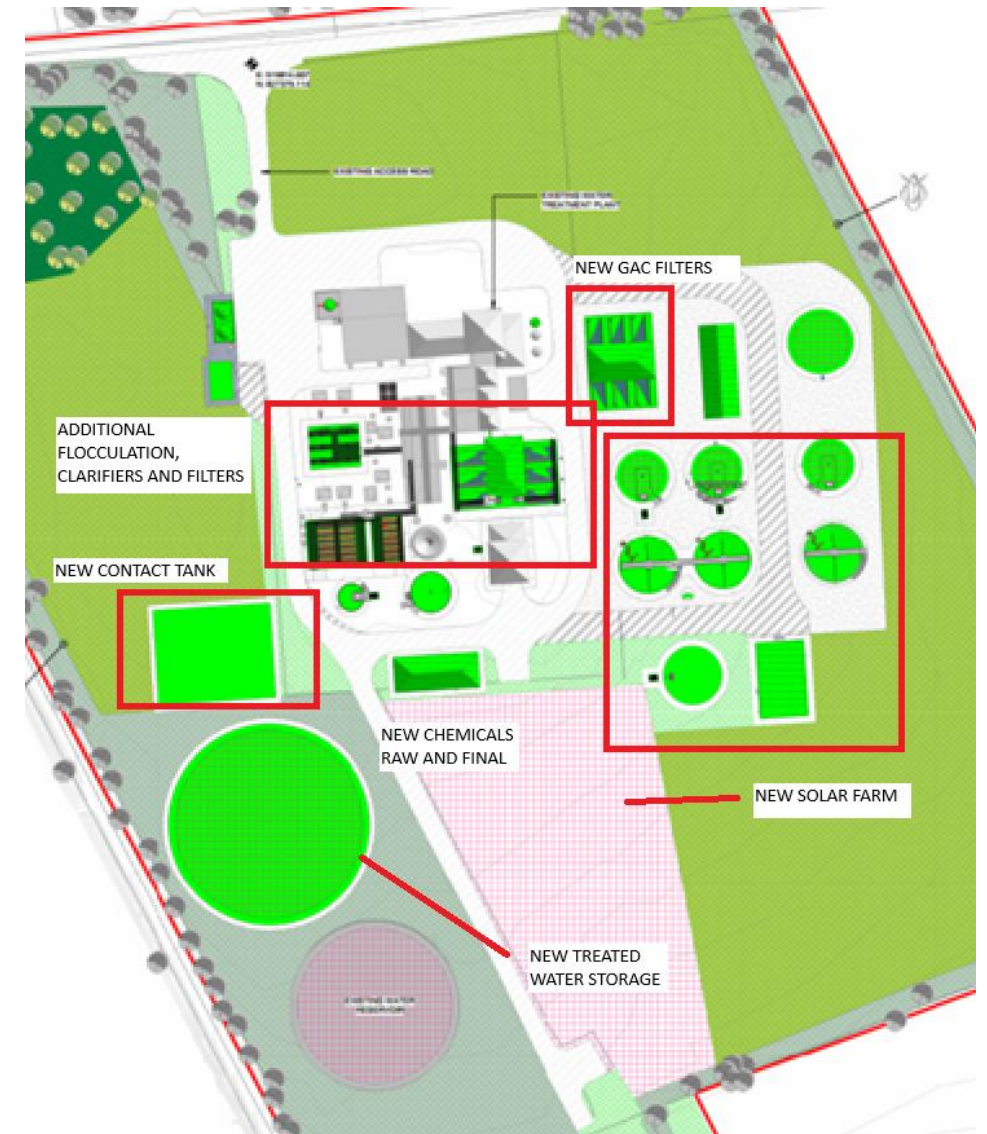
Lisglennon WTP - Existing



Lisglennon WTP	Value m ³ /day
<i>Original Design Capacity</i>	8,342
Current Capacity (with 2024 upgrades)	9,600
Total Design Capacity (2044 Forecast + Replacement of LoughTalt Source)	22,567

Lisglennon WTP – Proposed

- New flocculation
- Additional clarification & Rapid Gravity Filter capacity
- Chemical dosing & storage:
 - Enhanced coagulation – sulphuric acid + upsized coagulant
 - Upsized sodium hypochlorite
 - Final water: New soda ash incl. make-up
- New dedicated contact tank
- Additional treated water storage
- Residuals:
 - New used washwater equalisation and settlement tanks
 - New sludge balancing & thickened sludge holding tanks
 - New dewatering unit - sludge cake to be collected by articulated lorry
- GAC Filters & UV
- Lough Talt WTP:
 - Retain chlorination, ammonia & orthophosphate dosing
 - Additional treated water storage

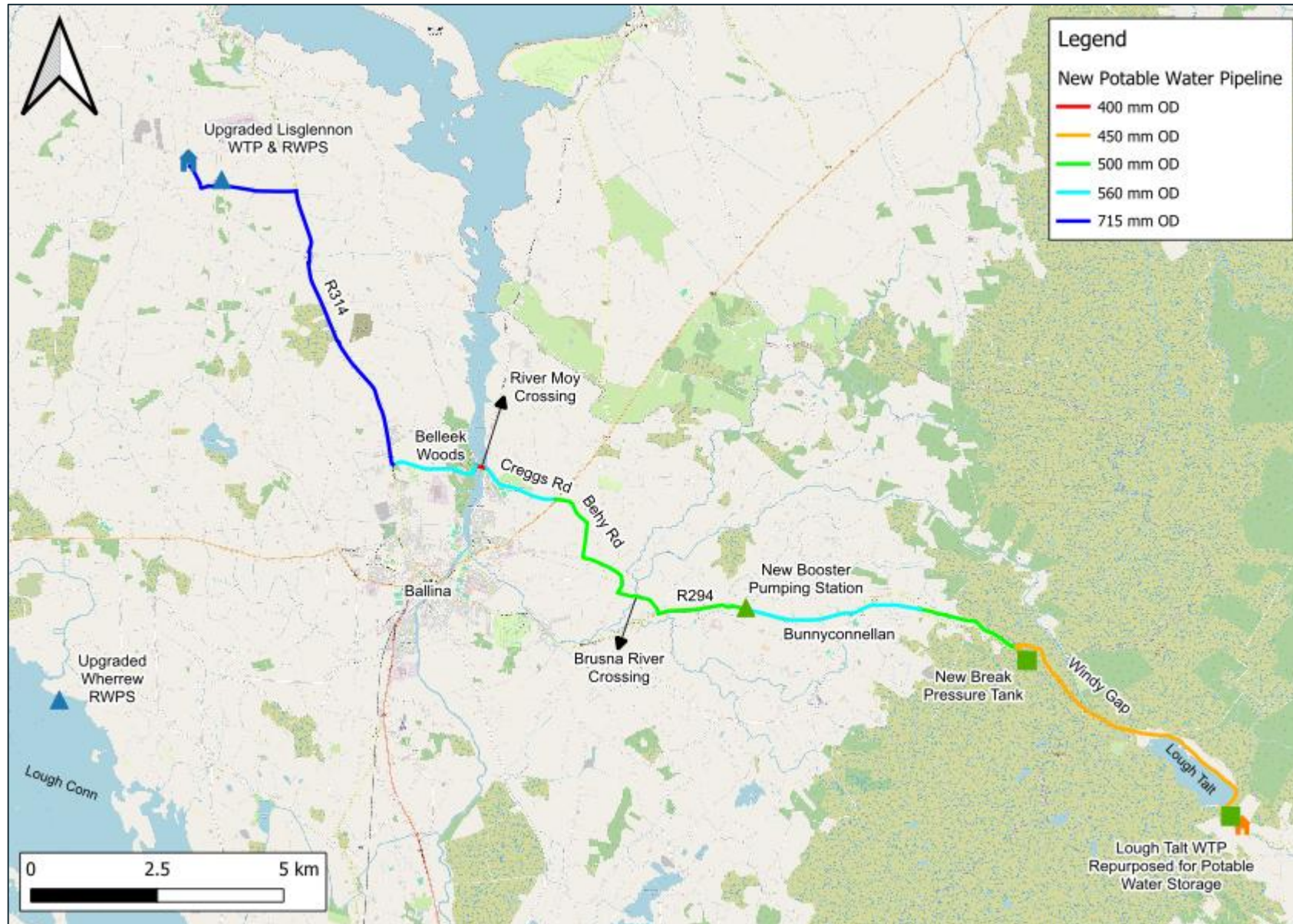


Lisglennon WTP – Proposed



Lisglennon to Lough Talt Treated Water Pipeline

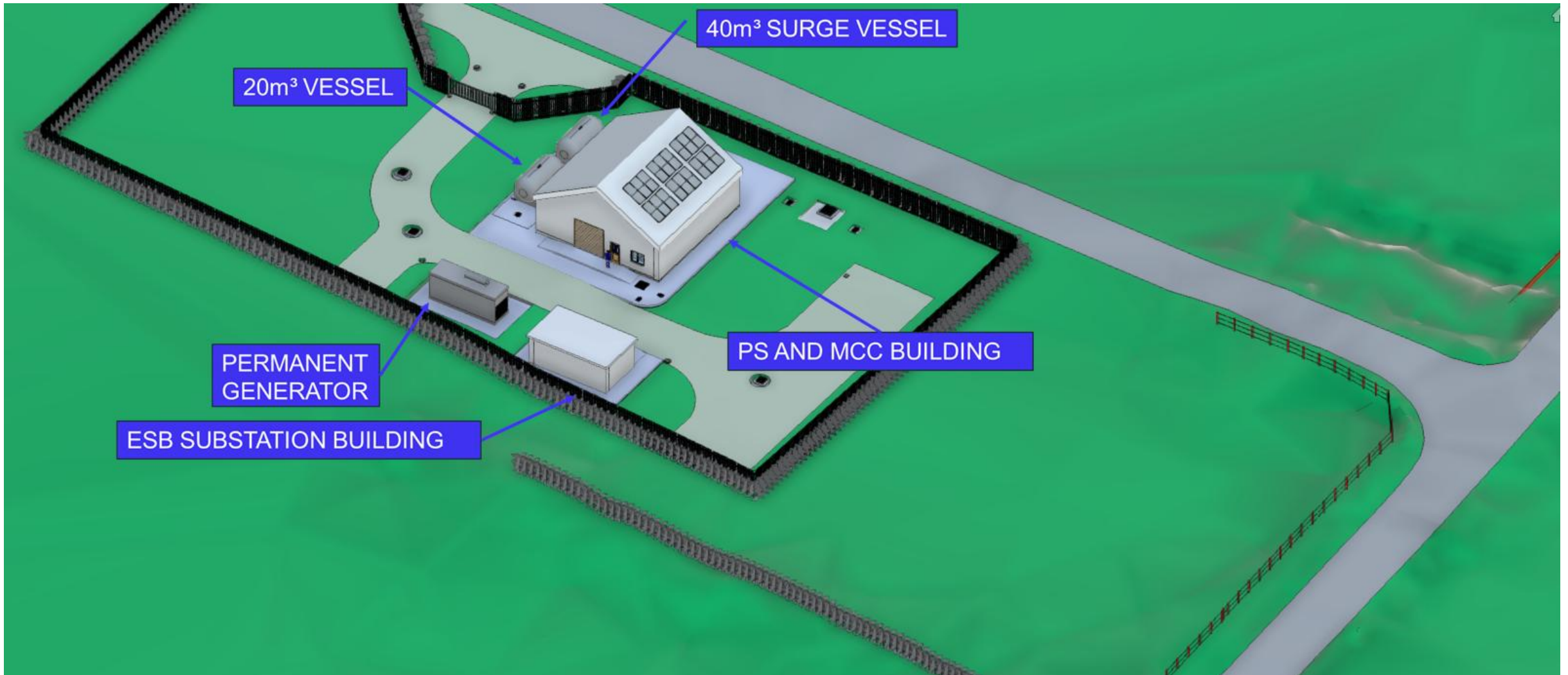
Preferred Route Corridor



Network Layout

- Replace existing 500 - 400mm AC trunk main along R314
- Replace existing 350mm DI mains along Belleek
- Retain existing 450mm OD SDR11 PE (365.4mm ID) crossing at River Moy
- New trunk network between Ballina and existing Lough Talt WTP

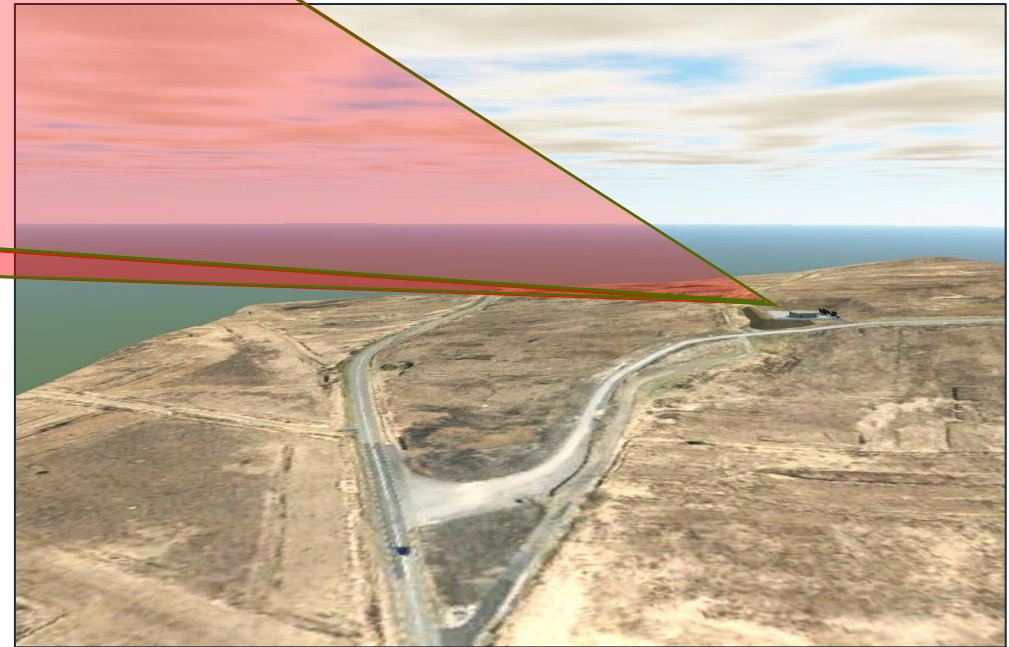
Booster Pumping Station Proposed Site Layout



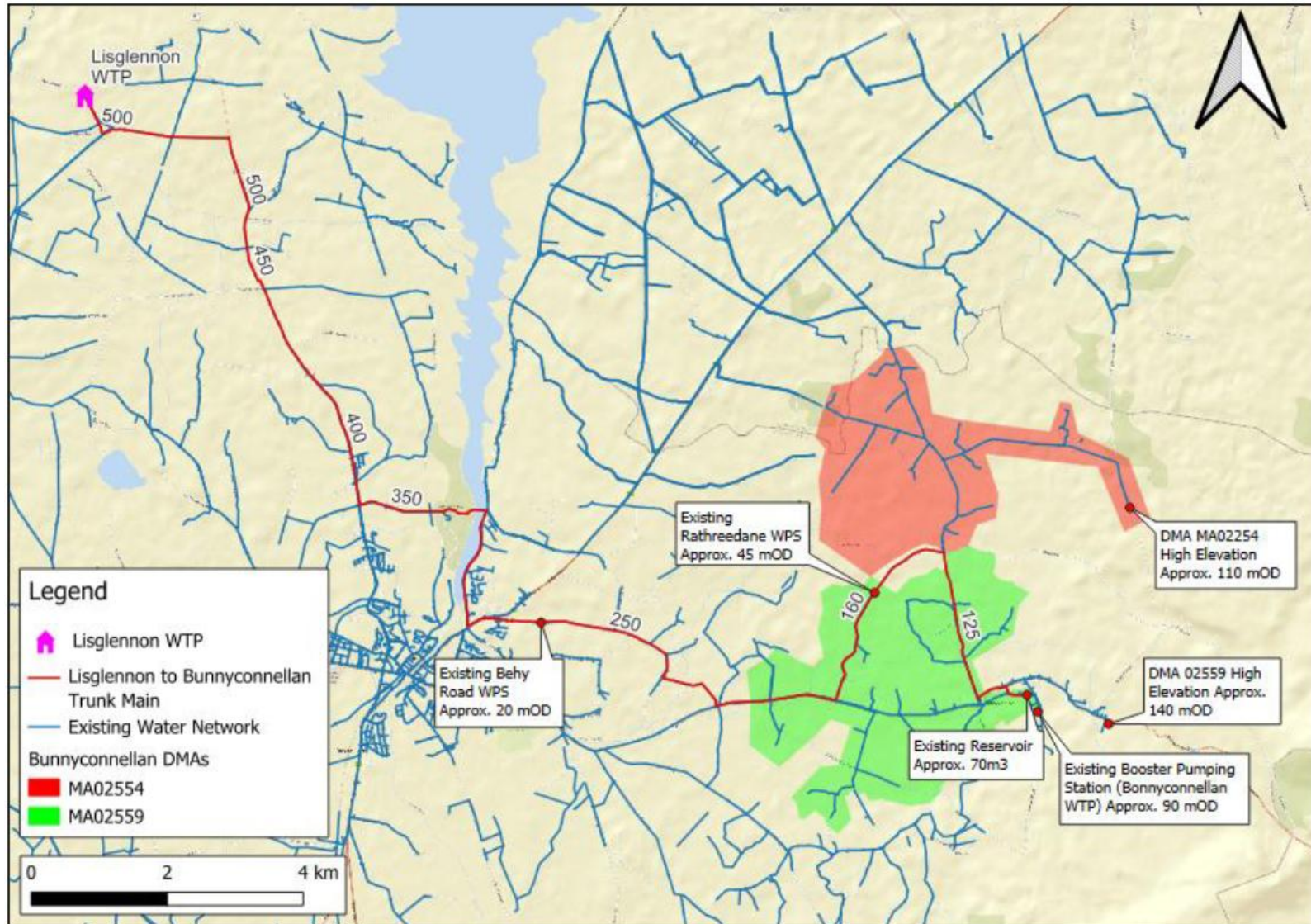
Break Pressure Tank / Reservoir



Break Pressure Tank (East side of windfarm access)



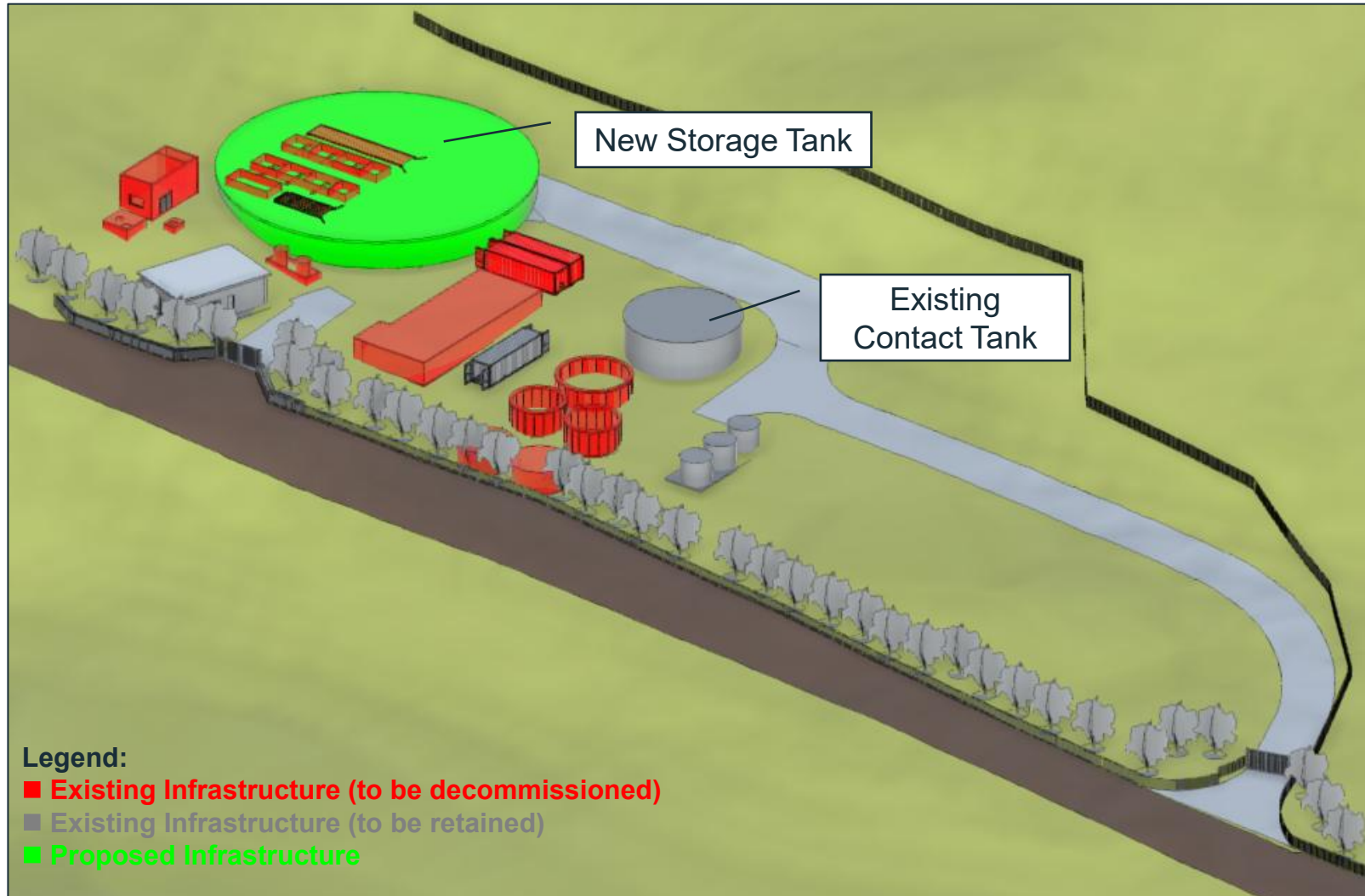
Upgrades to Bunnyconnellan Water infrastructure



Provision of additional potable water storage (approx. 185m³) adjacent to existing tank to provide 24 hours storage in total.

Lough Talt WTP Proposals

Existing Lough Talt WTP



Infrastructure to be retained:

- Chlorine Contact Tank
(repurposed as storage tank)
- Orthophosphate Dosing
- Treated Water pH Correction
- Chloramination Equipment
- Chemical Building

Proposed Infrastructure:

- 33m ϕ 2,884m³ storage tank

Environmental & Planning

Environmental

Application Reports

- EIA Screening Report
- EIAR - ongoing
- AA Screening Report
- Stage 2 AA (NIS) – ongoing
- Hydrological Assessment & WFD
- (AA Screening for Abstraction Licence)

Consultation

- Mayo and Sligo County Councils
- Public Consultation
- Landowner liaison
- NPWS, IFI and NMS

Ecological Surveys

- Invasive Alien Plant Species
- Habitat surveys;
- Aquatic surveys of water crossings (i.e. Habitat Assessment and Macroinvertebrate Sampling);
- Initial bat roosts assessment at Belleek woods;
- Breeding bird survey at Lough Conn in the surroundings of the Wherrew abstraction point;
- Crayfish survey of Brusna River crossing.

Archaeology Assessment

- 80 sites of archaeological within the study area
- 24 key constraints (17 RMPs and 7 NIAHs)
- 16 potential constraints
- Proposed route cross the Zone of Notification for 5 RMPs

Assessment of C&D waste



Planning Approach – SID Route

The Water Environment (Abstractions and Associated Impoundments) Act 2022 expands the classes of development within Part 3 (Environmental Infrastructure) of the Seventh Schedule of the Planning and Development Act, 2006, as amended, to include surface water abstractions, as follows:

“A groundwater abstraction, artificial groundwater recharge scheme or a surface water abstraction where the annual volume of water abstracted or recharged is equivalent to or exceeds 2 million cubic metres.”

The proposed project would involve increasing the current raw water abstraction from Lough Conn (c. 20,100 m₃/day) to 38,100 m₃/day to serve Lough Talt RWSS along with forecast future demand in the Ballina RWSS area.

The proposed surface water abstraction at Lough Conn is in excess of 2 million cubic metres per annum.

The project qualifies to be considered as a Strategic Infrastructure Development.

Planning Approach – SID Route

S. 37A (1) & (2) Assessment

(a) Is it a strategic economic or social importance to the State or the Region?	(b) Does it contribute substantially to the fulfilment of any of the objectives of the National Spatial Strategy or any Regional Spatial and Economic Strategy?	(c) Does it have a significant effect on the area of more than one planning authority?
YES	YES	YES
<ul style="list-style-type: none"> • NSO 9 Sustainable Management of Environmental Resources: <ul style="list-style-type: none"> ○ Substantial State investment, through Uisce Éireann and the Rural Water Programme, to improve compliance with public health and environmental standards, with particular reference to the River Basin Management Plan for Ireland. ○ Bringing and maintaining public water and wastewater services to acceptable international benchmarks, verified by independent monitoring and reporting. • NPO 92 - Ensure the alignment of planned growth with the efficient and sustainable use and development of water resources and water services infrastructure, in order to manage and conserve water resources in a manner that supports a healthy society, economic development requirements and a cleaner environment. • NPO 5 - Regional role of Sligo in the North-West will be identified and supported in the relevant Regional Spatial and Economic Strategy • NPO 15 - Strengthening Ireland’s overall urban structure, particularly in the Northern and Western and Midland Regions, to include the regional centre of Sligo • RPO 8.12 – Adequate Infrastructure for Growth • RPO 8.17 – W and WW for Economic Development • RPO 8.18 - Protect and Improve Waters 	<ul style="list-style-type: none"> • Support Regional Policy Objective RPO 8.15 of the RSES • Project identified as being necessary to deliver the growth model outlined in the RSES (Section 8.5, page 274 of the RSES) 	<ul style="list-style-type: none"> • Given the nature, extent and area of the proposed development, there is potential for the proposal to have a significant effect on Mayo and Sligo County Council areas

PROGRAMME

Programme

Key Milestones	Target Dates
Pre-Application Consultation Meeting	Q3 2025
Application Lodgement	Q3 2025
Departmental Approval	Q1 2027
Contractor Appointment	Q2 2027
Completion of Works	2029

WAY FORWARD

Next Steps

- Detailed design commenced
- SI in progress
- EIA and NIS to advance
- ABP submission expected Q3 2025

DISCUSSION