



Water Management Procedure

Rev01

Introduction

This procedure details the control measures in place during the main construction works to manage surface waters encountered during the construction of CWL01. Further details on control measures can be found within the Surface Water Management Plan.

Scope

This procedure applies to all John Paul Construction's (JPC) current and future activities carried out directly or through subcontractors related to the activities and services falling within the scope of works of CWL01 and its associated infrastructure.

Requirements

Whilst planning the works It will be necessary to consider the applicable local, regional, and national legislation. The key objectives of this procedure will be to:

- Ensure that no trade generated waters level site willingly or intentionally by any means necessary, JPC have acquired consent for permitted discharge to Dwr Cymru/Welsh Water (DCWW) sewerage infrastructure
- Waters shall be pumped to a settlement lagoon(s) and be subject to treatment via a water treatment system before discharged to sewerage location as approved via DCWW
- identified drainage systems of the site shall be protected by use of filtration systems.

Note: Waters shall be held within the settlement ponds and only pumped out during periods of dry weather. This is to ensure there is enough capacity within the system and it isn't being overloaded. Daily Checks shall be undertaken on the condition and the capacity of the settlement ponds prior to discharge. A permit to pump must be in place prior to discharge which will allow a controlled system to be in place to manage discharge limits.

Compliance

All works are considered in accordance with recent best practice measures and legislation:

- Environmental Permitting Regulations 2016
- The Water Resource (Control of Pollution) (Oil Storage) (Wales) Regulations 2016
- PPG6: Working at demolition and construction sites
- Disposal of pretreated surface water arising from construction works at the Former Quinn Radiator Site, Newport to the Public Foul Sewer (Dwr Cymru Welsh Water – Trade Consent)



Site rules

General measures in the way works are planned will be implemented to reduce impact and will include the following, as appropriate:

- Where there is a buildup or generation of waters, the Site Environmental Manager must be informed and a route for removal agreed with site teams.
- All waters shall be checked visual for turbidity and oils, and subject to pH testing with universal litmus paper before the above is agreed.
- Only that of excavation water shall be directly removed, this will vary on dependent rainfall and time of year. As standard more predicted for winter, less to summer.
- Plant and refuelling to fall in line with minimum standard Refuelling on Site and Spill Procedure.

Environmental Permit

An Additional Environmental Permit (B6) has been applied for through Natural Resources Wales to discharge to surface waters. This additional consent will provide additional pumping capacity in the event that additional surface water or groundwater is encountered, and the site is required to discharge further water from site.

It is anticipated that this will be used infrequently once the site settlement ponds are at or close to capacity and will only be pumped out to the surface water during periods of dry weather. A daily site check will be made of the discharge location and the wider SSSI to ensure no adverse effects as a result of the construction pumping works. Works will be stopped instantly and replanned should any issues be encountered.

It is anticipated that the Environmental Permit (B6) will predominantly be required during the period of February 2025-August 2025 when the main civil groundworks package of works will be undertaken. It is anticipated that this requirement will lessen once the internal fit out works are undertaken (September 2025-May 2026).



Site Activities

Site Activities Water pollution from site activities will be limited through the use of the following measures, as appropriate:

- Limited use of water as required for dust suppression.
- Isolation of existing water features to prevent potential ingress to working areas.
- BATs deployed when breaking ground / excavating (toe batters, French drains, swales, silt fencing)

Identified Discharge Area and Consents

Areas for discharge to site have been identified as existing sewerage point.

- All waters pending pre checks must be discharged to water management feature i.e. settlement lagoon, subject to treatment and discharge to agreed sewerage infrastructure
- The maximum volume of trade effluent that may be discharged shall not exceed 432 cubic metres per day at a flow rate no greater than 18 cubic metres per hour or 5 litres per second
- The trade effluent is expected to contain traces of total suspended solids. No gross solids may be discharged. The total suspended solids concentration must not exceed 100 mg/l
- No Visual oils

