KEY:
- Tank
- Permeable Paving
- Green Roof
- Existing Drainage Features
- Surface Water Sewer
- Foul Sewer

NOTES:

1) The drainage network has been sized using FEH rainfall data.
2) Surface water runoff will be restricted to the QBAR greenfield rate of 2.2 l/s/ha.
3) A surface water storage volume of c.2,500 m³ will be provided to ensure the capacity of the drainage network is not exceeded for the 1:100 +45% climate change event.
4) Roof areas will drain via the proposed network. The roof drainage and its contributing areas are to be refined at detailed design stage.
5) Permeable paving will be lined with an impermeable geotextile to ensure no infiltration through the base.
6) Areas of hardstanding will drain away from the proposed EfW facility towards grass verges along the Site boundary. SuDS features such as swales/filter drains are proposed within the verges to intercept runoff, provide water quality treatment before conveying flow to the piped drainage network.
7) An automatic shut off valve will be provided upstream of the hydrobrake flow control.

Ponds
New Covert
Path (um)
Trac
Canford Park
(Events Arena)
Proposed connection point to the existing private foul network
Conveyors
Conveyor
Works
Indicative foul drainage route:
It is proposed to connect into a Wessex Water network via an existing private foul sewer at a calculated flow rate of 3.8 l/s
Public Recycling Facility
WBs
Well
Ponds
Paving 02:
Invert = 42.69 mAOD
Area = 120 m²
Depth = 2.00m
Volume = 76 m³
Tanks
Conveyors
Hopper
Chy
ESS
Chy
Well
Paving 01:
Invert = 42.45 mAOD
Area = 163 m²
Depth = 1.50m
Volume = 73 m³
Tank 03
Invert = 42.28 mAOD
Area = 840 m²
Depth = 1.75m
Volume = 1397m³
Paving 03:
Invert = 42.32 mAOD
Area = 1,382 m²
Depth = 1.70m
Volume = 552 m³
Indicative connection between ditch and matrix of reed beds
FRB
Trac
Indicative connection between from reed beds to the Knighton Stream
Proposed replacement sewer to convey flows from the adjacent White's Pit Landfill site. Flow from the site is restricted to a maximum flow rate of 58.31/s for the 1:100 +30% climate change event.
Proposed replacement sewer indicatively sized as:
- diameter = 300mm dia
- gradient = 1:100
- capacity = approx 110 l/s

Tank 02:
Invert = 42.18 mAOD
Area = 90m²
Depth = 1.80m
Volume = 154m³
Matrix of reed beds consisting of 3 rows and 2 columns
Tank 01
Invert = 42.00 mAOD
Area = 137 m²
Depth = 2.00m
Volume = 260 m³
Ditch conveying flows from the proposed EfW facility drainage network to reed beds
Hydrobrake flow control restricting flow from the Site to the Qbar greenfield runoff rate of 5.2 l/s
Connection to downstream ditch

0 10 20 30 40 50 60 70 80 90 100

Rev	Date	Description	By	Chk
P02	10.01.23	UPDATE BASED ON CLIENT COMMENTS	SW	BM
P01	16.12.22	ISSUED	SW	BM

Amendments

Project: Canford EfW Facility

Title: Proposed Surface Water Drainage Strategy

Client: MVV

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Suitability: COORDINATION S1

Designed By	Director	Waterman Ref
S Whelan	B McCarthy	WIE18278
Drawn By	Date	Scales @ A1
S Whelan	16/12/2022	1:1000

Project - Originator - Volume - Level - Type - Role - Number: 18278-WIE-ZZ-XX-DR-D-92002

Revision: P02

File Path: N:\Projects\WIE18278\100\7_CAD\02_Drawings\

A1-Wat-ISO-S, x-os, x-red line boundary, x-site layout