



Legend

- Site boundary
- Below ground cellular storage tank
- Extreme event surface water ponding
- General surface water storage
- Raised Ground (0.15 m)
- Existing surface water manhole
- Existing surface water drainage
- Proposed surface water manhole
- Proposed surface water drainage
- - - Carrier drain
- ⊕ Rainwater pipe
- - - Channel drain
- Water quality monitoring station
- ▲ Pump
- ▲ Pump (for irrigation system)

Figure Title
Outline Surface Water Drainage Strategy

Project Name
 Ford Energy Recovery Facility and Waste Sorting and Transfer Facility, Ford Circular Technology Park

Project Number 1620007830	Scale As shown
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Date March 2021	Prepared By DP
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Drawing no. 1620007830-001-RAM-00-00-DR-YE-10001	Issue -
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Client
Ford EfW Ltd, Grndon, Viridor



Note on storage requirements:

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| <ol style="list-style-type: none"> 1. Below ground cellular storage: 250 m3 (250 m2 x 1 m) 2. Below ground cellular storage: 250 m3 (250 m2 x 1 m) 3. Below ground cellular storage: 1,000 m3 (1,000 m2 x 1 m) 4. Cellular storage invert (lowered base level) for irrigation system 5. Below ground cellular storage: 300 m3 (300 m2 x 1 m) 6. Surface water storage at -0.3 m for low return period events, extending below fan units: 650 m3 (2000 m2 x 0.3 m) 7. Surface Water Ponding (for high return period events): average 0.15 m 8. Channel drain collection system with surface ponding for extreme events in case of pump failure : 190 m3 (1,250 m2 x 0.15 m) 9. Irrigation pump and pipe network | <ul style="list-style-type: none"> - Total storage required for 1-in-100 year storm event plus CC: 2,400 m3 - Proposed storage total: 2,400 m3 - Storage required for -1.5 m external area: 650 m3 based on 50 l/s pump rate for 1-in-100 year storm event plus CC - Proposed storage total (-1.5 m level): 650 m3 + 190 m3 |
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