RO REJECT DIVERT R401A/B 02

WASHWATER BOOSTER 01

DECANT/DRAINAGE P701A/B 02

| DECANT/DRAINAGE RETURN | |
|---|---|
| DESIGN FLOW | XX.X m3/day |
| BASELINE FLOW | XX.X m3/day |
| MAX INST. FLOW | 34 m3/hr |

| WASHWATER | |
|---|---|
| DESIGN DAILY FLOW | 12.5 m3/day |
| INST. FLOW | 10 m3/hr |

BASKET STRAINER S102

BYPASS

INLET SCREEN S101

pH FT

FT

SAMPLER E101

TP02A

SCREENINGS

DIVERT TANK AERATOR PUMPS P102A/B

DIVERT TANK T102

DIVERT RETURN PUMP P104

BALANCE TANK T101

BALANCE TANK AERATOR PUMPS P101A/B

DAF FEED PUMPS D/S P201A/B

| INFLUENT W/WATER | |
|---|---|
| DESIGN DAILY FLOW | 700 m3/day |
| DESIGN COD LOAD | 2496 kg/day |
| BASELINE DAILY FLOW | 500 m3/day |
| BASELINE COD LOAD | 1783 kg/day |
| INST. FLOW | 150 m3/hr |

RAW EFFLUENT FROM FACTORY

RAW EFFLUENT SUMP PUMPS D/A/S P100A/B/C

TP01

EXISTING RAW EFFLUENT SUMP T100

| DAF FEED | |
|---|---|
| DESIGN DAILY FLOW | 730 m3/day |
| DESIGN COD LOAD | 2496 kg/day |
| BASELINE DAILY FLOW | 525 m3/day |
| BASELINE COD LOAD | 1783 kg/day |
| INST. FLOW | 35 m3/hr |

DAF BYPASS

PIPE MIXER/FLOCCULATOR E202

COAGULANT DOSING PUMP P204

COAGULANT TANK T204

CAUSTIC DOSING PUMP P205

CAUSTIC TANK T205

ACID DOSING PUMP P206

ACID TANK T206

CAUSTIC P502 02

ACID P405A/B 02

TOWNS WATER

POLYMER DOSING PUMP P207

POLYMER AGING TANK T207

POLY MAKE-UP SYSTEM E206

POLY SUPPLY TANK T208

DAF SYSTEM INCL WHITEWATER SYSTEM (NOT SHOWN) T201

DAF EFFLUENT TANK T202

BIOREACTOR FEED PUMPS D/S P301A/B

SAMPLER E205

DAF SLUDGE T701 02

| DAF SLUDGE (CO-THICKENED) | |
|---|---|
| DESIGN DAILY FLOW | 8.0 m3/day |
| DESIGN SS LOAD | 321 kg/day |
| BASELINE DAILY FLOW | 5.8 m3/day |
| BASELINE SS LOAD | 233 kg/day |
| SOLIDS | 4.0 % DS |
| INST. FLOW | 10 m3/h |

DAF SLUDGE PUMPS P203A/B

IBC

NUTRIENT DOSING PUMP P304

| WASHWATER | |
|---|---|
| DESIGN DAILY FLOW | 12.5 m3/day |
| INST. FLOW | 10 m3/hr |

| BIOREACTOR FEED | |
|---|---|
| DESIGN DAILY FLOW | 722 m3/day |
| DESIGN COD LOAD | 875 kg/day |
| BASELINE DAILY FLOW | 519 m3/day |
| BASELINE COD LOAD | 619 kg/day |
| INST. FLOW | 35 m3/hr |

BYPASS

BIOREACTOR FEED SCREEN S301

TP02B

SCREENINGS

| BIOLOGICAL SLUDGE | |
|---|---|
| DESIGN DAILY FLOW | 17.2 m3/day |
| DESIGN SS LOAD | 172 kg/day |
| BASELINE DAILY FLOW | 12.7 m3/day |
| BASELINE SS LOAD | 127 kg/day |
| SOLIDS | 1.0 % DS |
| INST. FLOW | 10 m3/h |

BIO-SLUDGE T701 02

| UF PERMEATE | |
|---|---|
| DESIGN DAILY FLOW | 717 m3/day |
| BASELINE DAILY FLOW | 519 m3/day |
| INST. FLOW | 35 m3/hr |

UF PERMEATE DIVERT

BIOMASS RETURN

UF PERMEATE OUTLET

| UF PERMEATE | |
|---|---|
| DESIGN DAILY FLOW | 692 m3/day |
| BASELINE DAILY FLOW | 494 m3/day |
| INST. FLOW | 35 m3/hr |

UF PERMEATE RO SYSTEM 02

TOWNS WATER

AMBR BIOREACTOR TANK T301

AIR BLOWERS D/A/S B301A/B/C

BIOREACTOR AERATION PUMPS D/A/S P302A/B/C

BIOMASS WASTING PUMP P303

BIOMASS FEED

MEMBRANE BACKFLUSH PUMP M1-P3-1

BACKFLUSH CHEMICAL A DOSING PUMP M1-P4-1

CHEMICAL CARBOY

UF PERMEATE TANK M1-T1

| WASHWATER | |
|---|---|
| DESIGN DAILY FLOW | 25.0 m3/day |
| INST. FLOW | 20 m3/hr |

WASHWATER BOOSTER SET E806

WASHWATER SCREENS

BASKET STRAINER M1A-S1

MEMBRANE RECIRCULATION PUMP M1A-P1

MEMBRANE BIOMASS SEPARATION BANK A M1A

PERMEATE PUMP M1A-P2

BASKET STRAINER M1B-S1

MEMBRANE RECIRCULATION PUMP M1B-S1

MEMBRANE BIOMASS SEPARATION BANK B M1B

PERMEATE PUMP M1B-P2

CLEANING RETURN

CLEANING FEED

UF CLEANING TANK M1-T2

AS BUILT

| Rev No | Revision note | Date | Signature | Checked |
|---|---|---|---|---|
| 3 | AS BUILT | 19/01/17 | GC | MB |
| 2 | NON-CLIENT TP's REMOVED | 20/05/15 | CA | GC |
| 1 | CONTRACT ISSUE | 19/05/15 | CA | GC |
| 0 | PRELIMINARY DESIGN | 10/11/14 | CA | LE/GC |

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| Drawn by | Checked by | Approved by - date | File Ref | Date | Scale |
|---|---|---|---|---|---|
| CA | LE/GC | MB - 10/11/14 | J5584 | 04/08/14 | NTS |

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Title: PROCESS FLOW DIAGRAM - SHEET 1

J5584-P01 | Revision 3 | Sheet 1/1