DAF SLUDGE (NO CO-THICKENING)	
DESIGN DAILY FLOW	3.7 m3/day
DESIGN SS LOAD	149 kg/day
BASELINE DAILY FLOW	2.7 m3/day
BASELINE SS LOAD	106 kg/day
SOLIDS	4.0 % DS
INST. FLOW	10 m3/h

DAF SLUDGE
DAF | 01

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

BIO-SLUDGE (NO CO-THICKENING)	
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
BIOREACTOR | 01

SLUDGE STORAGE TANK T701

LT

ROAD TANKER POINT

TANKER POINTS

ROAD TANKER POINT

REJECT DIVERT

LT

DRAINAGE RETURN PUMPS D/A P701A/B

DRAINAGE SUMP T702

SITE DRAINAGE

FT

DRAINAGE RETURN	
MAX. INST. FLOW	34 m3/h

CENTRATE/DRAINAGE RETURN | 01

FOUL EFFLUENT CLIENT | --

FOUL EFFLUENT DISCHARGE TANK T602

LT

FOUL EFFLUENT TO DYKE	
DESIGN DAILY FLOW	15 m3/day

FT

SAMPLER E602

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

UF PERMEATE
UF SYSTEM | 01

TREATED EFFLUENT DISCHARGE TANK T601

LT

TREATED EFFLUENT TO DYKE (REJECT)	
DESIGN DAILY FLOW	104 m3/day
BASELINE DAILY FLOW	74 m3/day
INST. FLOW	6.6 m3/hr

FT

SAMPLER E601

TP03

EXIST. DISCHARGE CLIENT | --

EFFLUENT DISCH. DYKE | --

EXISTING DISCHARGE	
MAX. DAILY FLOW	15 m3/day
AVG. DAILY FLOW	TBA m3/day
INST. FLOW	TBA m3/hr

TOTAL OUTFALL	
MAX. DAILY FLOW	134 m3/day
AVG. DAILY FLOW	TBA m3/day
INST. FLOW	TBA m3/hr

RO FEED TANK T401

LT

RO FEED	
DESIGN DAILY FLOW	692 m3/day
BASELINE DAILY FLOW	494 m3/day
INST. FLOW	44 m3/hr

RO FEED	
INST. FLOW	22 m3/hr

PT

LOW PRESSURE FEED PUMP P401A

DIFF PT

CARTRIDGE FILTER S401A

PT

HIGH PRESSURE FEED PUMP P402A

RO SYSTEM R401A

PT FT pH

REJECT

PERMEATE

PT FT CT

RO REJECT	
DESIGN DAILY FLOW	104 m3/day
BASELINE DAILY FLOW	74 m3/day
INST. FLOW	6.6 m3/hr

RO REJECT	
INST. FLOW	3.3 m3/hr

RO PERMEATE	
INST. FLOW	18.7 m3/hr

RO PERMEATE	
DESIGN DAILY FLOW	588 m3/day
BASELINE DAILY FLOW	420 m3/day
INST. FLOW	37.4 m3/hr

TT

RECYCLED WATER STORAGE TANK T403

LT

RECYCLED WATER PUMPS D/S P501A/B

RECYCLED WATER	
DESIGN DAILY FLOW	588 m3/day
BASELINE DAILY FLOW	420 m3/day
INST. FLOW	40 m3/hr

TT

COOLING UNIT E502

TT

DISINFECTION E501

TT CT pH

RO CLEANING TANK T402

TT

LT

RO FEED	
INST. FLOW	22 m3/hr

PT

LOW PRESSURE FEED PUMP P401B

DIFF PT

CARTRIDGE FILTER S401B

PT

HIGH PRESSURE FEED PUMP P402B

RO SYSTEM R401B

PT FT pH

REJECT

PERMEATE

PT FT CT

RO REJECT	
INST. FLOW	3.3 m3/hr

RO PERMEATE	
INST. FLOW	18.7 m3/hr

CLEANING RETURN

RECYCLE WATER HYPO DOSING PUMP P503

CHEMICAL CARBOY

LS

CAUSTIC T205 | 01

RECYCLE WATER CAUSTIC DOSING PUMP P502

IBC

LS

SODIUM BISULPHITE IBC

BISULPHITE DOSING PUMP P404A

BISULPHITE DOSING PUMP P404B

ANTISCALANT
-- | --

ANTISCALENT MAKE-UP TANK

LS

ANTISCALENT DOSING PUMP P403A

ANTISCALENT DOSING PUMP P403B

ACID T206 | 01

ACID DOSING PUMP P405A

ACID DOSING PUMP P405B

NEW MAINS WATER STORAGE TANK T501

LT

TP26

TP04

EXISTING MAINS WATER STORAGE TANK

pH TT

CT

TP05

EXISTING MAINS WATER BOOSTER SET

EXISTING WATER TANKS

TOWNS SUPPLY
MAINS SUPPLY | --

TT

TP26

LT

TP27

EXISTING MAINS WATER BOOSTER SET

EXISTING WATER SOFTENER SYSTEM

TP28

EXISTING MAINS WATER BOOSTER SET

WATER SUPPLY FACTORY | --

WATER SUPPLY FACTORY | --

AS BUILT

Rev No	Revision note	Date	Signature	Checked
4	AS BUILT (AMENDED)	23/05/17	GC	MB
3	AS BUILT	19/01/17	GC	MB
2	COOLING SYSTEM ADDED, 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 2

J5584-P02	Revision 4	Sheet 1/1