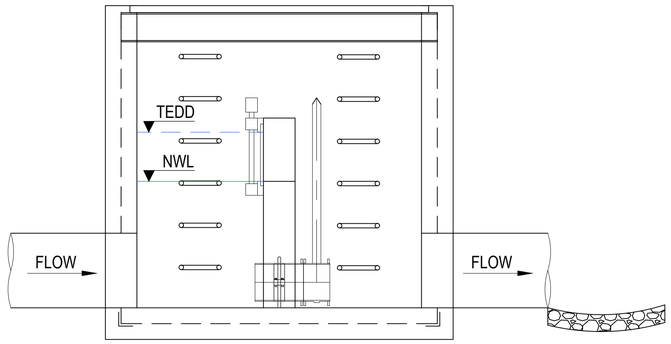
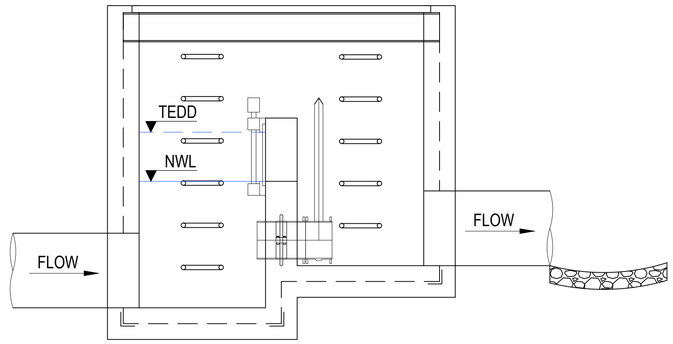


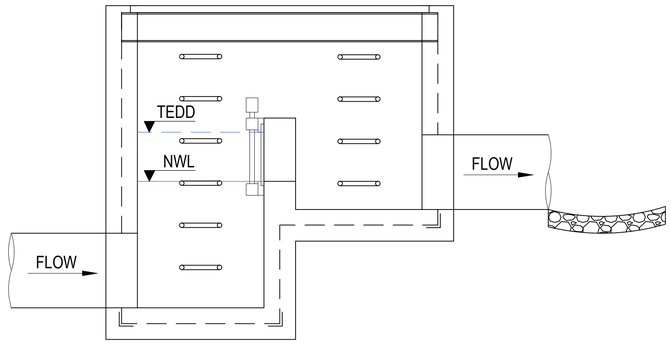
EXAMPLE 1

FULL GRAVITY DRAWDOWN CAPABILITY IS VIABLE WHERE THE IL; OF THE RECEIVING WATERS IS LOWER THAN THE OUTLET POOL IL.



EXAMPLE 2

PARTIAL GRAVITY DRAWDOWN CAPABILITY IS AVAILABLE WHERE THE IL OF THE RECEIVING WATERS ARE HIGHER THAN THE OUTLET POOL IL, HOWEVER STILL BELOW THE NWL (600MM MIN*) ALLOWING FOR PARTIAL GRAVITY DRAWDOWN VIA THE GATE VALVE. VEHICULAR ACCESS TO THE PIT IS REQUIRED FOR PUMP DELIVERY. THIS PUMP REMOVES THE REMAINING WATER FROM THE WETLAND THAT COULDN'T BE DRAINED BY GRAVITY.



EXAMPLE 3

NO GRAVITY DRAWDOWN OCCURS WHEN THE RECEIVING WATERS ARE AT OR JUST BELOW THE NWL. IN THIS INSTANCE A GATE VALVE IS NOT REQUIRED. VEHICULAR ACCESS TO THE PIT IS REQUIRED FOR PUMP DELIVERY. THIS PUMP DRAWS DOWN THE WETLAND AS IT CANNOT BE DRAINED BY GRAVITY.

NOTE:

- REFER TO 7251/12/006 FOR TWIN CHAMBER OUTFALL PIT DETAIL.
- THE SUBMERGED OFFTAKE PIT IN CONJUNCTION WITH THE BALANCE PIPES AND TWIN CHAMBER OUTFALL PIT ARE INTEGRAL FOR CONTROLLING THE EDD AND PROVIDE EFFECTIVE DRAWDOWN CAPABILITY.
-
- THE TWIN CHAMBER OUTFALL PIT AVOIDS MULTIPLE PUMPING POINTS, DISTURBANCE OF VEGETATION, PUMP RELOCATION, HEALTH AND SAFETY ISSUES, MAINTENANCE, TIME AND COST, SHOULD FULL GRAVITY DRAWDOWN NOT BE AVAILABLE .
- *600MM IS COMPRISED OF 50MM CLEARANCE FROM FLOOR + (2 X 80MM FLANGE WIDTH) + (2 X 40MM PIPE WALL THICKNESS) + 300MM PIPE DIAMETER = 590MM (ROUNDED UP TO 600MM).

CONCEPT ONLY
NOT TO SCALE

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE

Melbourne Water

DRAFTER	DESIGNER	DESIGN MANAGER APPROVAL	PROJECT MANAGER APPROVAL
DRAFTING CHECK	ENGINEERING REVIEW		

TITLE
OUTFALL EXAMPLE TYPE 7
DRAWDOWN OPTIONS
SHEET 1 OF 1

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
SCALE		7251/12/4019	
		CODE	MWC DRAWING NUMBER / REV