NORTH POINT RECLAMATION
EARLY 2009 TO MID 2009
- DIVERSION OF OUTFALL T TO TEMPORARY OUTFALL (T-TEMP-1ST) DISCHARGING TO THE WEST OF NPR1
- NPR1 RECLAMATION

MID 2009 TO LATE 2009
- DIVERSION OF OUTFALL T TO TEMPORARY OUTFALL (T-TEMP-2ND) ON THE RECLAIMED PART OF NPR1
- DIVERSION OF OUTFALL U TO TEMPORARY OUTFALL (U-TEMP-1ST) DISCHARGING TO THE EASTERN HALF OF NPR2
- NPR1 RECLAMATION
- NPR2W RECLAMATION
- NPR2E RECLAMATION

LEGEND:
- EXISTING COOLING WATER INTAKE
- EXISTING STORM WATER OUTFALL
- REPROVISIONED COOLING WATER INTAKE
- REPROVISIONED STORM WATER OUTFALL
- TEMPORARY COOLING WATER INTAKE
- NEW COOLING WATER/SALT WATER CHAMBER
- NEW BOX CULVERT
- TEMPORARY DRAINAGE OUTFALL DIVERSION
- DIVERTED COOLING WATER INTAKE PIPELINES (PERMANENT)
- TEMPORARY COOLING WATER PIPELINES
- RECLAMATION IN THE PERIOD
- CWB TUNNEL CONSTRUCTION IN THE PERIOD
- CWB TUNNEL (COMPLETED)

CONSTRUCTION STAGES
**CONSTRUCTION STAGES**

**LATE 2009 TO MID 2010**
- Diversion of Outfall U to Temporary Outfall (U-Temp. 2nd) on reclaimed part of NPR2E
- NPR2E Reclamation
- CWB Tunnel Construction at NPR1
- Construction of permanent outfall T above the completed CWB tunnel

**MID 2010 TO LATE 2012**
- Construction of permanent outfall U
- CWB Tunnel Construction at NP1
- CWB Tunnel Construction at NP2W

**LEGEND**
- Existing Cooling Water Intake
- Existing Storm Water Outfall
- Reprovisioned Cooling Water Intake
- Reprovisioned Storm Water Outfall
- Temporary Cooling Water Intake
- New Cooling Water/Salt Water Chamber
- New Box Culvert
- Temporary Drainage Outfall Diversion
- Diverter Cooling Water Intake Pipelines (Permanent)
- Temporary Cooling Water Pipelines
- Reclamation in the period
- CWB Tunnel Construction in the period
- CWB Tunnel Completed

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**WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW**

(Figure 29) (Sheet 2 of 12)
TEMPORARY TYPHOON SHELF
CONSTRUCTION, TEMPORARY CAUSEWAY
BAY RECLAMATION & TEMPORARY PCWA
RECLAMATION

EARLY 2009 TO MID 2009
- TEMPORARY BREAKWATER (TBW) CONSTRUCTION
- BORED PILE WALL CONSTRUCTION
- TPCWA RECLAMATION

MID 2009 TO LATE 2009
- TBW CONSTRUCTION
- MOVING MOORING TO TEMP CBTS
- CWB TUNNEL CONSTRUCTION AT TPCWA
- TCBRIE RECLAMATION

LEGEND:

EXISTING COOLING WATER INTAKE
EXISTING STORM WATER OUTFALL
REPROVISIONED COOLING WATER INTAKE
REPROVISIONED STORM WATER OUTFALL
TEMPORARY COOLING WATER INTAKE
NEW COOLING WATER/SALT WATER CHAMBER
NEW BOX CULVERT
TEMPORARY DRAINAGE OUTFALL DIVERSION
DIVERTED COOLING WATER INTAKE PIPELINES (PERMANENT)
TEMPORARY COOLING WATER PIPELINES
RECLAMATION IN THE PERIOD
CWB TUNNEL CONSTRUCTION IN THE PERIOD
CWB TUNNEL (COMPLETED)
LATE 2009 TO MID 2010
- TCBR2 RECLAMATION
- TCBRW RECLAMATION
- CWB TUNNEL CONSTRUCTION AT TPCWAE
- CWB TUNNEL CONSTRUCTION AT TCBR1 (AFTER COMPLETION OF TCBR1 RECLAMATION)

MID 2010 TO EARLY 2011
- CWB TUNNEL CONSTRUCTION AT TPCWAE
- CWB TUNNEL CONSTRUCTION AT TCBR1
- CWB TUNNEL CONSTRUCTION AT TCBRW
- CWB TUNNEL CONSTRUCTION AT TCBR2
CONSTRUCTION STAGES

EARLY 2011 TO MID 2012

- TCBRIE RECLAMATION REMOVAL AFTER CWB TUNNEL IN TCBRIE COMPLETE
- TEMPORARY DIVERSION OF COOLING MAIN & INTAKE (WINDSOR HOUSE)
- COMMISSIONING OF DIVERTED COOLING MAIN & INTAKE
- TCBR3 RECLAMATION
- CWB TUNNEL CONSTRUCTION AT TPCWAE
- CWB TUNNEL CONSTRUCTION AT TCBRW
- CWB TUNNEL CONSTRUCTION AT TCBR2
- CWB TUNNEL UNDER CROSS HARBOUR TUNNEL PORTAL AREA (XHT)

MID 2012 TO LATE 2012

- TCBRW RECLAMATION REMOVAL IN EARLY 2012
- TCBR2 RECLAMATION REMOVAL IN EARLY 2012
- TPCWAE RECLAMATION REMOVAL IN EARLY 2012
- DIVERSION OF CULVERT Q TO TEMPORARY CULVERT (Q-TEMP-1ST) DISCHARGING TO EASTERN HALF OF TCBR4
- TCBR4 RECLAMATION (FROM WEST TO EAST)
- TPCWAW RECLAMATION
- CWB TUNNEL CONSTRUCTION AT TCBR3
- CWB TUNNEL CONSTRUCTION AT TPCWAW

LEGEND:

EXISTING COOLING WATER INTAKE
EXISTING STORM WATER OUTFALL
REPROVISIONED COOLING WATER INTAKE
REPROVISIONED STORM WATER OUTFALL
TEMPORARY COOLING WATER INTAKE
NEW COOLING WATER/SALT WATER CHAMBER

NEW BOX CULVERT
TEMPORARY DRAINAGE OUTFALL DIVERSION
DIVERTED COOLING WATER INTAKE PIPELINES (PERMANENT)
TEMPORARY COOLING WATER PIPELINES
RECLAMATION IN THE PERIOD
CWB TUNNEL CONSTRUCTION IN THE PERIOD
CWB TUNNEL (COMPLETED)
LATE 2012 TO EARLY 2013
- DIVERSION OF OUTFALL Q TO TEMPORARY OUTFALL (Q-TEMP-2ND) ON RECLAIMED WESTERN PART OF TCBR4
- TCBR4 RECLAMATION (EASTERN SECTION)
- CWB TUNNEL CONSTRUCTION AT TCBR3
- CWB TUNNEL CONSTRUCTION AT TPCWAW

EARLY 2013 TO MID 2014
- CWB TUNNEL CONSTRUCTION AT TCBR3
- CWB TUNNEL CONSTRUCTION AT TCBR4
- CWB TUNNEL CONSTRUCTION AT TPCWAW

LEGEND:
- EXISTING COOLING WATER INTAKE
- EXISTING STORM WATER OUTFALL
- REPROVISIONED COOLING WATER INTAKE
- REPROVISIONED STORM WATER OUTFALL
- TEMPORARY COOLING WATER INTAKE
- NEW COOLING WATER/SALT WATER CHAMBER
- NEW BOX CULVERT
- TEMPORARY DRAINAGE OUTFALL DIVERSION
- DIVERTED COOLING WATER INTAKE PIPELINES (PERMANENT)
- TEMPORARY COOLING WATER PIPELINES
- RECLAMATION IN THE PERIOD
- CWB TUNNEL CONSTRUCTION IN THE PERIOD
- CWB TUNNEL (COMPLETED)
MID 2014 TO LATE 2015
- CWB TUNNEL CONSTRUCTION AT TPCWAW
- CWB & SLIP ROAD B TUNNELS CONSTRUCTION AT TCBR4
- TCBR3 RECLAMATION REMOVAL IN LATE 2013

LATE 2015 TO EARLY 2016
- TPCWAW RECLAMATION REMOVAL IN EARLY 2015
- TCBR4 RECLAMATION REMOVAL IN MID 2015
- REINSTALLMENT OF EXISTING COOLING MAIN & INTAKE (WINDSOR HOUSE)
- REINSTALLMENT OF EXISTING OUTFALL Q
- TEMPORARY TYPHOON SHELTER REMOVAL IN LATE 2015
WAN CHAI RECLAMATION

EARLY 2009 TO EARLY 2010
- Diversion of existing ferry service at the east berth of Wan Chai ferry pier to a temporary floating pier
- Diversion of outfall N to temporary outfall (N-Temp) to the east of WCR1 reclamation
- WCR1 reclamation
- Construction of new ferry pier
- Construction of new sewage outfall at harbour area and on existing land
- Construction of re-provisioned WSD salt water pumping station and its intake box culvert (land side)
- Construction of cooling water pumping chambers at new seawall

EARLY 2010 TO EARLY 2011
- CBW tunnel construction at WCR1
- Construction of sewage outfall at seaside and on reclaimed part of WCR1 reclamation
- Construction of cooling water mains (SHK Centre)
- Construction of new salt water intake box culvert
- Construction of permanent culvert N
- Diversion of all existing ferry service to the new Wan Chai ferry pier
- Commissioning of cooling water mains system (SHK Centre)
- Commissioning of salt water intake system

LEGEND:
- Existing cooling water intake/ existing WSD salt water intake
- Existing storm water outfall
- Re-provisioned cooling water intake/ re-provisioned WSD salt water intake
- Re-provisioned storm water outfall
- Temporary cooling water intake
- New cooling water/salt water chamber
- New box culvert
- Temporary drainage outfall diversion
- Diverted cooling water intake pipelines (permanent)
- Temporary cooling water pipelines
- Reclamation in the period
- CBW tunnel construction in the period
- CBW tunnel (completed)
EARLY 2011 TO LATE 2012
- COMMISSIONING OF NEW SEWAGE SUBMARINE OUTFALL
- WCR2 RECLAMATION
- DEMOLITION OF EXISTING WSD SALT WATER PUMPING STATION, COOLING WATER PUMPING STATION & EXISTING FERRY PIER
- ABANDON EXISTING SEWAGE SUBMARINE OUTFALL
- CWB TUNNEL CONSTRUCTION AT WCR2

LATE 2012 TO EARLY 2015
- WCR3 RECLAMATION
- WCR4 RECLAMATION
- TWCR4 RECLAMATION
- CWB TUNNEL CONSTRUCTION AT WCR3
- CWB TUNNEL CONSTRUCTION AT WCR4 & TWCR4

LEGEND
- EXISTING COOLING WATER INTAKE/EXISTING WSD SALT WATER INTAKE
- EXISTING STORM WATER OUTFALL
- REPROVISIONED COOLING WATER INTAKE/REPROVISIONED WSD SALT WATER INTAKE
- REPROVISIONED STORM WATER OUTFALL
- TEMPORARY COOLING WATER INTAKE
- NEW COOLING WATER/SALT WATER CHAMBER
- NEW BOX CULVERT
- TEMPORARY DRAINAGE OUTFALL DIVERSION
- DIVERTED DRAINAGE INTAKE PIPELINES (PERMANENT)
- TEMPORARY COOLING WATER PIPELINES
- RECLAMATION IN THE PERIOD
- CWB TUNNEL CONSTRUCTION IN THE PERIOD
- CWB TUNNEL (COMPLETED)
EARLY 2015 TO LATE 2015
- AT GRADE ROAD
- CONSTRUCTION OF PERMANENT WCR4 SEAWALL
- REMOVAL OF TWCR4 RECLAMATION

LEGEND:

EXISTING COOLING WATER INTAKE/EXISTING WSD SALT WATER INTAKE

EXISTING STORM WATER OUTFALL

REPROVISIONED COOLING WATER INTAKE/REPROVISIONED WSD SALT WATER INTAKE

REPROVISIONED STORM WATER OUTFALL

TEMPORARY COOLING WATER INTAKE

NEW COOLING WATER/SALT WATER CHAMBER

NEW BOX CULVERT

TEMPORARY DRAINAGE OUTFALL DIVERSION

DIVERTED COOLING WATER INTAKE PIPELINES (PERMANENT)

TEMPORARY COOLING WATER PIPELINES

RECLAMATION IN THE PERIOD

CWB TUNNEL CONSTRUCTION IN THE PERIOD

CWB TUNNEL (COMPLETED)
HKCEC RECLAMATION
EARLY 2009 TO EARLY 2011
- HKCEC1 RECLAMATION
- MTR TUNNEL CROSSING STRUCTURE CONSTRUCTION
- CWB TUNNEL CONSTRUCTION AT HKCEC1
- COOLING WATER INTAKE PIPELINES CONSTRUCTION
- NEW CROSS HARBOUR WATER MAINS CONSTRUCTION
- COMMISSIONING OF THE NEW COOLING WATER INTAKE SYSTEM
- COMMISSIONING OF THE NEW CROSS HARBOUR WATER MAINS

EARLY 2011 TO LATE 2011
- MTR TUNNEL CROSSING STRUCTURE CONSTRUCTION
- DIVERSION OF OUTFALL M TO TEMPORARY OUTFALL
  (M-TEMP DISCHARGING TO THE EASTERN HALF OF HKCEC3E)
- DIVERSION OF OUTFALL L TO TEMPORARY OUTFALL
  (L-TEMP-1ST DISCHARGING TO THE EASTERN HALF
  OF HKCEC2W)
- HKCEC3E RECLAMATION (WEST TO EAST)
- HKCEC3W RECLAMATION
- HKCEC2W RECLAMATION (WEST TO EAST)
- HKCEC2E RECLAMATION

LATE 2011 TO LATE 2012
- MTR TUNNEL CROSSING STRUCTURE CONSTRUCTION
- DIVERSION OF OUTFALL L TO TEMPORARY OUTFALL
  (L-TEMP-2ND ON THE RECLAIMED WESTERN PART
  OF HKCEC2W)
- HKCEC2W RECLAMATION (EASTERN SIDE)
- HKCEC3E RECLAMATION
- HKCEC3E RECLAMATION (TO BOX CULVERT INVERT)
- CWB TUNNEL CONSTRUCTION AT HKCEC3E
  (AFTER COMPLETION OF HKCEC3E RECLAMATION)
- CONSTRUCTION OF PERMANENT OUTFALL M' ABOVE THE
  COMPLETED CWB TUNNEL

CONSTRUCTION STAGES

WAR CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

FIGURE 2.18
LATE 2012 TO EARLY 2014
-CWB TUNNEL CONSTRUCTION AT HKCEC3W, HKCEC2E & HKCEC2W
-CONSTRUCTION OF PERMANENT OUTFALL L ABOVE THE COMPLETED CWB TUNNEL

EARLY 2014 TO LATE 2015
-AT-GRADE ROAD