

NOTES:

EXISTING SITE DRAINAGE SCHEME NOTES & OUTFALL DETAILS FROM DRAWING 038411 REVISION 29 DATED 05/08/2020

THE MAIN STATION AREA IS FLAT AND HAS BEEN (PREVIOUSLY) RAISED FROM 4.25M TO 6.1M ABOVE ORDNANCE DATUM (OD) TO PROVIDE PROTECTION AGAINST FLOODING. A PERIMETER DITCH WHICH SURROUNDS THE STATION IS ARRANGED TO COLLECT THE ON & OFF SITE DRAINAGE AND CHANNEL THE WATER INTO CARR DYKE LOCATED TO THE NORTH WEST OF THE STATION. WHERE NECESSARY THE PERIMETER DITCH IS CULVERTED.

EXISTING DRAX POWER STATION DRAINAGE SYSTEM SUMMARY

THE NORTH SIDE OF THE STATION DISCHARGES SURFACE WATER INTO CARR DYKE VIA CONSENTED OUTFALL 'PP'. THE WATER FROM CARR DYKE FEEDS INTO LENDALL DRAIN AND VIA LENDALL PUMPING STATION & IS DISCHARGED INTO THE RIVER OUSE. THE MAJORITY OF THE SITE'S SURFACE WATER DISCHARGES VIA THE PURGE PUMPING STATION NEXT TO NORTH GATE INTO OUTFALL W1 INTO THE RIVER OUSE. SURFACE WATER FROM THE COAL AND ASH MOUNDS ETC. IS CHANNLED VIA DRAINS TO THE SLUDGE LAGOONS. THE RESULTING 'FILTERED WATER' IS THEN PUMPED TO THE PURGE SYSTEM TO DISCHARGE THROUGH W1, OR TO THE SEDIMENTATION TANKS AND THROUGH TO THE COOLING WATER MAKE-UP PIPELINE TO THE COOLING TOWERS. NOTE THE FILTERED WATER LINE DISCHARGE POINT IN THE PURGE PUMPING STATION BYPASSES THE MONITORING CHAMBER AND CAN ONLY CARRY SURFACE WATER.

THE LENDALL PUMPING STATION IS OWNED AND MAINTAINED BY THE N.R.A. (IDB) & IS LOCATED 274M UPSTREAM OF THE MAKE-UP PUMPHOUSE. WHERE CONTAMINATION BY OIL IS POSSIBLE (E.G. IN TRANSFORMER OR OIL TANK STORAGE AREAS, CAR PARKS ETC) THE SURFACE WATER IS CHANNLED TO OIL INTERCEPTORS.

OUTFALL DETAILS

OUTFALL 'R' PUMPED OVERFLOW OF LAND DRAINS FROM NORTH

COOLING TOWERS 300MM DIA. 187 M3/HR FLOW TO

NORTH PERIMETER DITCH

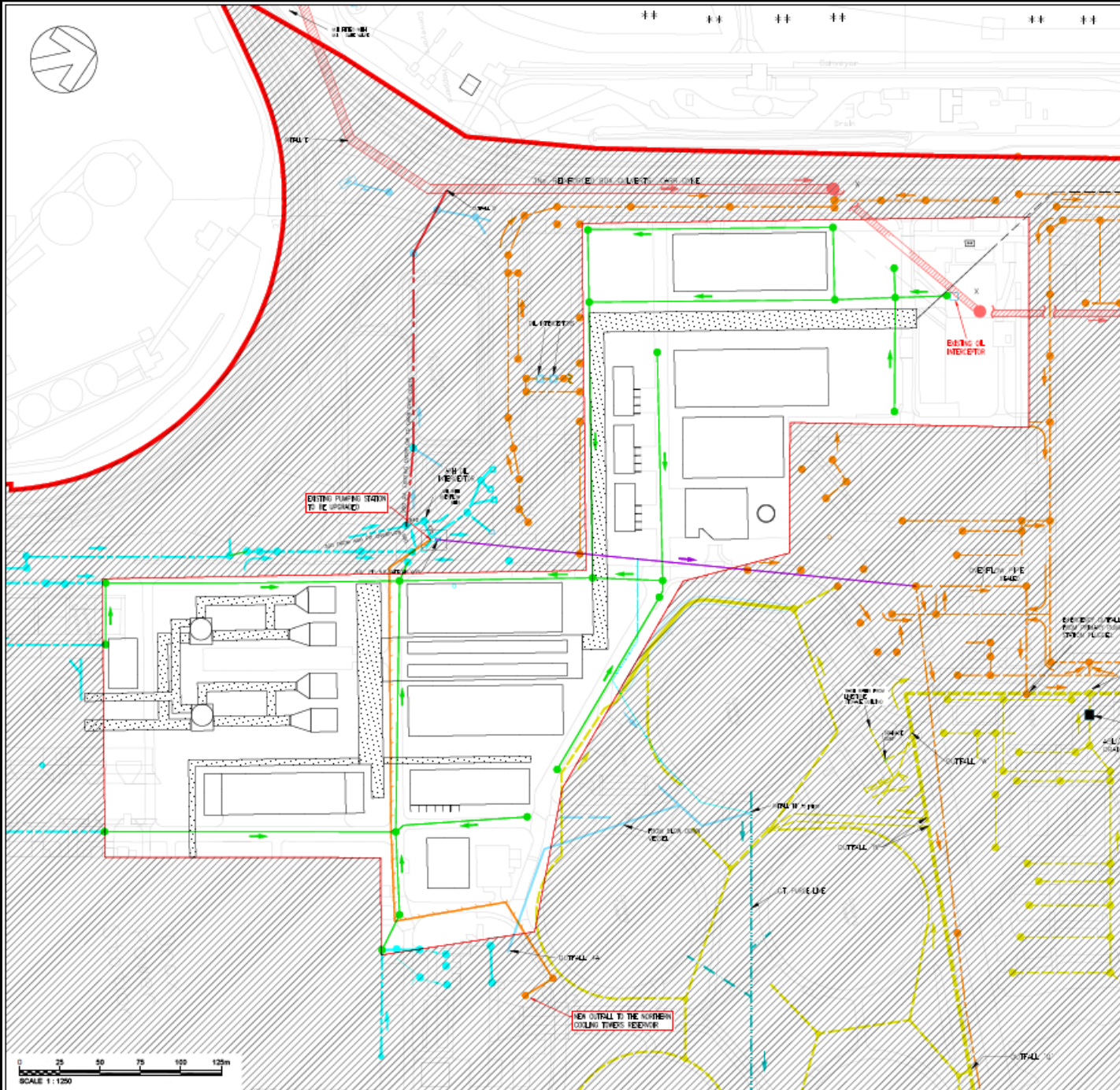
OUTFALL 'W' F.G.D PROCESS WATER PUMPHOUSE TO CULVERTED SECTION OF NORTH PERIMETER DITCH.

OUTFALL 'BB' F.G.D CONTRACTORS AREA THROUGH OIL INTERCEPTOR TO CULVERTED SECTION OF CARR DYKE. 600MM DIA. 893 M3/HR FLOW.

OUTFALL 'KK' OILY WATER SEPARATOR NO.2 CLEAN WATER TO COOLING TOWER 5B PURGE CHAMBER, TO PURGE PUMPHOUSE.

OUTFALL 'PP' CULVERT SECTION CARR DYKE, HEADWALL AT EXIT TO OPEN DITCH SECTION CARR DYKE.

OUTFALL '4A' NORTH BLOWDOWN TANK. NORTH OILY SEPARATOR & PUMP STN 125A. TO NORTH COOLING TOWER PURGE LINE TO PURGE PUMPHOUSE. CONDENSATE. FILTERED WATER & SURFACE WATER.



GENERAL ARRANGEMENT

SCALE 1:1250 @ A1
SCALE 1:2500 @ A3

Key

- Indicative new surface water drainage
- Replacement connection to existing purge pipe
- New ring main to north cooling water reservoir

Note

All other marked drainage remains as existing.



Indicative Surface Water Drainage changes