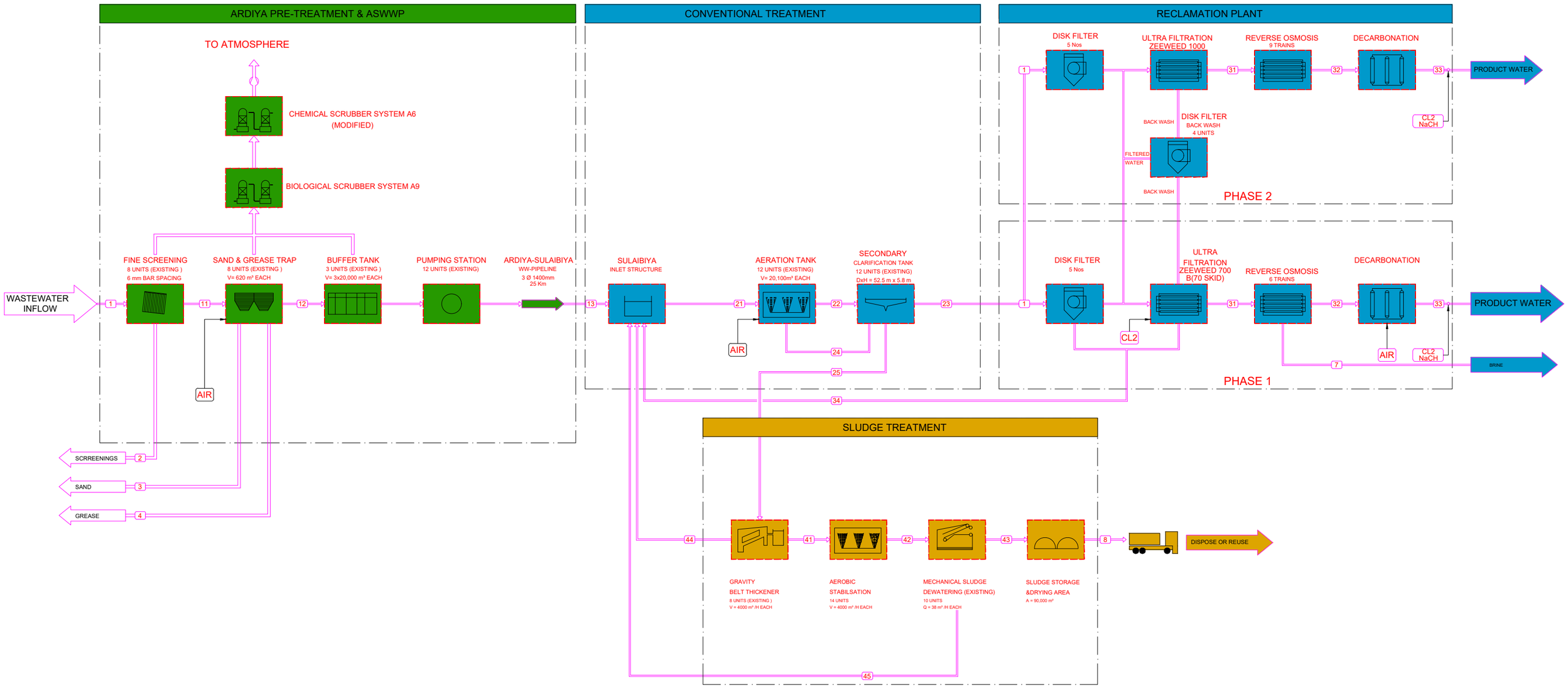
ARDIYA PRE-TREATMENT & ASWWP
CONVENTIONAL TREATMENT
RECLAMATION PLANT
TO ATMOSPHERE
CHEMICAL SCRUBBER SYSTEM A6 (MODIFIED)
BIOLOGICAL SCRUBBER SYSTEM A9
WASTEWATER INFLOW
FINE SCREENING
8 UNITS (EXISTING)
6 mm BAR SPACING
SAND & GREASE TRAP
8 UNITS (EXISTING)
V= 620 m³ EACH
BUFFER TANK
3 UNITS (EXISTING)
V= 3x20,000 m³ EACH
PUMPING STATION
12 UNITS (EXISTING)
ARDIYA-SULAIBIYA
WW-PIPELINE
3 Ø 1400mm
25 Km
SULAIBIYA
INLET STRUCTURE
AERATION TANK
12 UNITS (EXISTING)
V= 20,100m³ EACH
SECONDARY
CLARIFICATION TANK
12 UNITS (EXISTING)
DxH = 52.5 m x 5.8 m
DISK FILTER
5 Nos
ULTRA FILTRATION ZEEWEED 1000
REVERSE OSMOSIS
9 TRAINS
DECARBONATION
PRODUCT WATER
CL2
NaCH
BACK WASH
DISK FILTER
BACK WASH
4 UNITS
FILTERED WATER
BACK WASH
PHASE 2
DISK FILTER
5 Nos
ULTRA FILTRATION ZEEWEED 700 B(70 SKID)
REVERSE OSMOSIS
6 TRAINS
DECARBONATION
PRODUCT WATER
BRINE
AIR
CL2
CL2
NaCH
PHASE 1
SCRREENINGS
SAND
GREASE
SLUDGE TREATMENT
GRAVITY
BELT THICKENER
8 UNITS (EXISTING)
V = 4000 m³ /H EACH
AEROBIC
STABILSATION
14 UNITS
V = 4000 m³ /H EACH
MECHANICAL SLUDGE
DEWATERING (EXISTING)
10 UNITS
Q = 38 m³ /H EACH
SLUDGE STORAGE
&DRYING AREA
A = 90,000 m²
DISPOSE OR REUSE
1
11
12
13
21
22
23
24
25
31
32
33
34
7
2
3
4
44
41
42
43
8
45