



STAGE 1

INFLUENT	PRELIMINARY TREATMENT	ENTRANCE TO PRIMARY TREATMENT	PRIMARY CLARIFIERS	PRIMARY THICKENER	PRIMARY DIGESTER	ENTRANCE TO SECONDARY TREATMENT	SECONDARY TREATMENT	THICKENED SLUDGE	COMBINED SLUDGE	DESIGATED SLUDGE
Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)

STAGE 2

ENTRANCE TO SECONDARY TREATMENT	SECONDARY TREATMENT	THICKENED SLUDGE	COMBINED SLUDGE	DESIGATED SLUDGE
Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)

NUMBER OF UNITS = 2
HOURS OF OPERATION = 24 (12h/12h/day (each))
LOADS OF OPERATION = 5000 kg/week
FLOW EXTENSION = 30-30m/h
DRY SOLS CONCENTRATION = 20%

STAGE 3

ENTRANCE TO SECONDARY TREATMENT	SECONDARY TREATMENT	THICKENED SLUDGE	COMBINED SLUDGE	DESIGATED SLUDGE
Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)

STAGE 4

ENTRANCE TO SECONDARY TREATMENT	SECONDARY TREATMENT	THICKENED SLUDGE	COMBINED SLUDGE	DESIGATED SLUDGE
Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)	Q max/day = 80000 (m³/d) Q peak = 325 (m³/h) Q emergency = 480 (m³/h) BOD LOAD = 20000 (kg/day) TN LOAD = 1200 (kg/day) TP LOAD = 150 (kg/day)

REVISIONS & AMENDMENTS

NO.	DATE	DESCRIPTION
01	24.12.12	ISSUE

PROJECT: AYALON WWP UPGRADE & EXTENSION
SCALE: AS SHOWN
DATE: 24.12.12
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]

CONSULTING ENGINEERS & PLANNERS (1980) LTD.
HGM
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P.O. BOX 400, NER-ZION, ISRAEL

LEGEND:
BW RAW WASTEWATER
G&S GRIT & SCREENINGS
SN SUMP
NS NITRIFICATION
PE PRIMARY EFFLUENT
PS PRIMARY SLUDGE
MS MIXED LIQUOR
RAS RETURN ACTIVATED SLUDGE
WAS WASTE ACTIVATED SLUDGE
SS SECONDARY SLUDGE
SE SECONDARY EFFLUENT
TE TERTIARY EFFLUENT
AIR
FLOW METER
PUMP
NEW UPGRADE STRUCTURE
NEW EXTENSION STRUCTURE
UPGRADE
EXTENSION