TECHNOLOGICAL SCHEME OF THE LABORATORY CONTINUOUS FLOTATION PLANT

CAN BE INCLUDED IN OPERATION OR EXCLUDED FROM OPERATION

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First set of flotation machines

pos.5
(0.07-12 l/min)

pos.1
mill XMQL Ø200x240 mm
+ classifier Ø75x800

GRINDING SYSTEM

ROUGH
FLOTATION
6 x 1l

SCAVENGER
2 x 1l

extended

scavenger

FEED max 3.35 mm

pos.4
1l x 8 cells

pos.2
P=750W
50 l

pos.3
(0.07-12 l/min)

FINAL
TAILINGS

pos.6
(0.07-12 l/min)

THICKENER

pos.28
P=0.55 kW

First set for dewatering

FILTER
PRESS

pos.31
P=180 W

5 l

pos.26
(0.07-12 l/min)

SEWAGE

pos.30
F.P.+PUMP

WASTE

pos.10
mill XMQL Ø200x240 mm
+ classifier Ø75x800

ROUGH
CONCENTRATE

pos.7
(0.07-12 l/min)

pos.14
(0.07-8 l/min)

SCAVENGER
CONCENTRATE

THICKENER

pos.28
P=0.55 kW

Second set for dewatering

FILTER
PRESS

pos.31
P=180 W

5 l

pos.26
(0.07-8 l/min)

SEWAGE

pos.29
F.P. + PUMP

CONCENTRATE

20 l

pos.8
P=750W

pos.9
(0.07-12 l/min)

REGRINDING
SYSTEM

pos.18

1ST CLEANING
4 x 0.75l

Second set of flotation machines

pos.13
0.75 l x 4cells

20 l

pos.12
(0.07-8 l/min)

pos.11
P=750W

1ST CLEANING
CONCENTRATE

2ND CLEANING
2 x 0.5l

pos.22
(0.07-8 l/min)

Third set of flotation machines

pos.16

pos.17
0.5 l x 2cells

3RD CLEANING
2 x 0.5l

5 l

pos.15
P=180W

2ND CLEANING
CONCENTRATE

Fourth set of flotation machines

5 l

pos.21
0.5 l x 2cells

pos.20
(0.07-8 l/min)

pos.19
P=180 W

pos.23
(0.07-8 l/min)

FINAL
CONCENTRATE

4 x dosing system
4 x hose pump (0-1140 ml/min)

pos.24

4 x dosing system
4 x hose pump (0-1140 ml/min)

pos.25