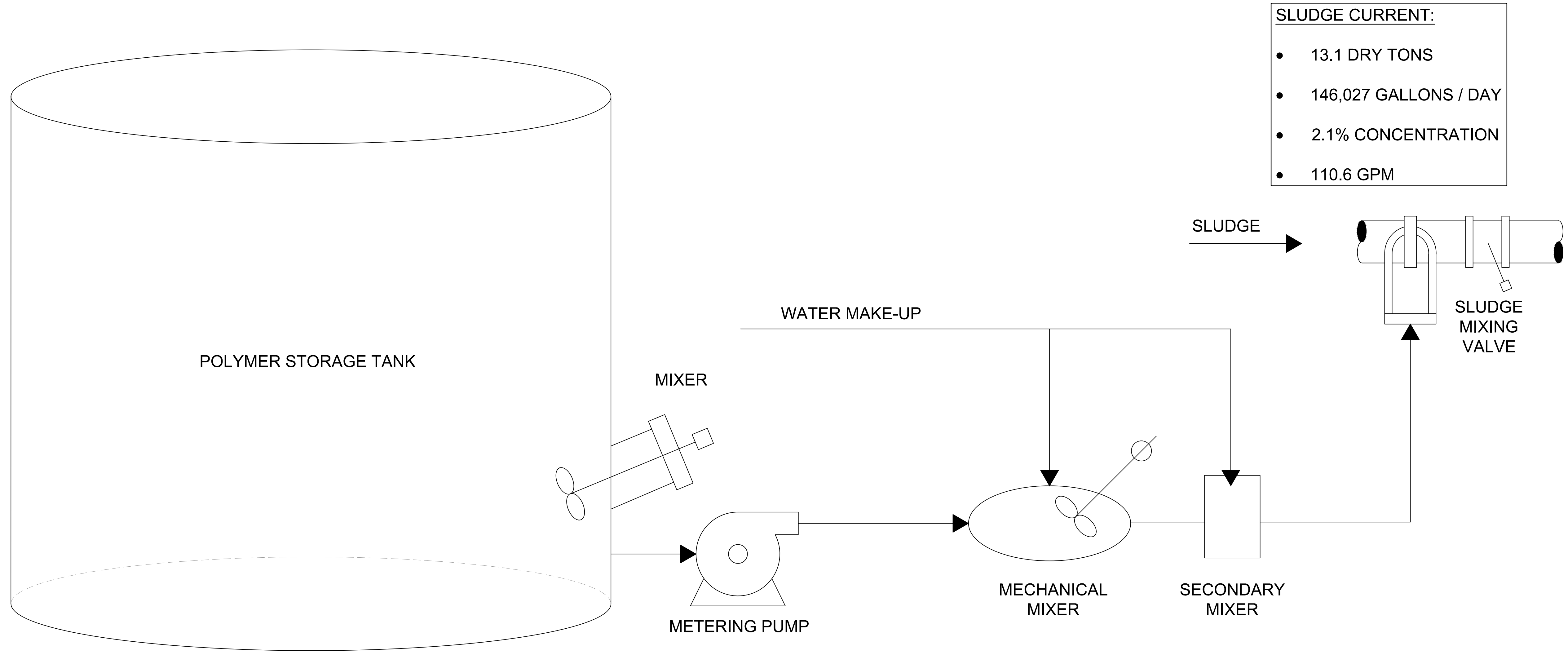


EMULSION POLYMER SYSTEM



SLUDGE CURRENT:

- 13.1 DRY TONS
- 146,027 GALLONS / DAY
- 2.1% CONCENTRATION
- 110.6 GPM

POLYMER NOTES:

- POLYMER SOLUTION 8.7 LBS/GALLON
- 42% EMULSION SOLUTION STORED
- 5,000 GALLONS PER TRUCK
- TRUCKLOAD 69 DAYS (AVERAGE)

TANK NOTES:

- INSTALL 2 POLYMER STORAGE TANKS
- TANK DIAMETER 9'-0"
- TANK HEIGHT 10'-0"
- USEFUL HEIGHT 8'-6"
- USEFUL VOLUME 4,000 GALLONS
- 1/2 HP MIXER

METERING PUMPS NOTES:

- INSTALL 4 METERING PUMPS
- FEED RATE PER UNIT (GPH)
 - 5.5 (AVERAGE)
 - 15.2 (90TH PERCENTILE)
 - 0.9 (10TH PERCENTILE)
- WATER MAKE-UP (GPM)
 - 15.4 (AVERAGE)
 - 42.6 (90TH PERCENTILE)
 - 2.5 (10TH PERCENTILE)

POINT OF SERVICE NOTES:

- METERING PUMPS FEED 4 BELT FILTER PRESS UNITS
- POLYMER SOLUTION CONCENTRATION 0.25%
- AVERAGE FEED RATE 15.2 GPM
- 20.2 LBS / DRY TON SLUDGE
- HOURS OF OPERATION: 5.5 HRS/DAY
- SLUDGE CAKE: 20% SOLIDS

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 DATE: Jul 01, 2020 9:02pm
 USER: nduncon

olsson

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REV. NO.	DATE	REVISIONS DESCRIPTION

EMULSION POLYMER SYSTEM DESIGN SHEET

SEWAGE TREATMENT PLANT NO. 2
POLYMER SYSTEM IMPROVEMENTS

WICHITA, KS

2020

drawn by: CJW
checked by: BRC
approved by: KLR
QA/QC by: KLR
project no.: 019-2051
drawing no.:
date:

SHEET
P-01