Crossflow flux: 100 L/h. crossflow velocity: 0.31 m/s

Constant permeate flux: 30 LMH

Temperature: 25°C

Pure water permeability: 6-7 LMH/bar

Feed 1:

|  |  |  |  |
| --- | --- | --- | --- |
| Ions | Concentration (ppm) | Parameters | Value |
| Na+ | 303 | DOC | 12 ppm |
| Mg2+ | 9 | DIC | 105 ppm |
| Ca2+ | 43 | pH | 8.3 |
| Cl- | 334 |  |  |
| K+ | 12 |  |  |
| P | 27 |  |  |
| S | 10 |  |  |

Two kinds of Osmotic pressure simulation：

1. Without pH adjustment which means the pH will increase with time (increased water recovery)
2. With pH adjustment at 6.5

Feed 2:

|  |  |  |  |
| --- | --- | --- | --- |
| Ions | Concentration (ppm) | Parameters | Value |
| Na+ | 250 | DOC | 8 ppm |
| Mg2+ | 5 | DIC | 98 ppm |
| Ca2+ | 22 | pH | 8.4 |
| Cl- | 162 |  |  |
| K+ | 12 |  |  |
| P | 0.1 |  |  |
| S | 9.8 |  |  |

Two kinds of Osmotic pressure simulation：

1. Without pH adjustment which means the pH will increase with time (increased water recovery)
2. With pH adjustment at 6.5