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Multiple dynamic Al-based floc layers on ultrafiltration membrane surfaces for humic acid and reservoir water fouling reduction

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## ACCEPTED MANUSCRIPT

|       | Without flocs  | •             | ne injection       | Two-times injection |  |
|-------|----------------|---------------|--------------------|---------------------|--|
| Low p |                | PAM injection | High acration rate |                     |  |
|       | Organic matter | ₩ АРАМ        | AT-PRISED IDOCS    | UF membrane         |  |
|       |                |               | AR                 |                     |  |
|       |                |               |                    |                     |  |
|       |                |               |                    |                     |  |
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