

Table 1: Feature mapping, class, and membership by feature set.

Tag	Description (unit)	m1	m2	m3	m4
TO_AI6401_01	Pulp pH (line 01)	•	◦	◦	•
TO_AI6402_01	Pulp pH (line 02)	•	◦	◦	•
TO_B06311_EST1	Feed pump status	•	◦	◦	◦
TO_DI6311_01	Flotation feed density (t/m ³)	•	◦	◦	◦
TO_FI6311_01	Flotation feed flow, slurry (m ³ /h)	•	◦	•	◦
TO_FI8271_01	Amine flow (L/h)	•	•	•	•
TO_FY6104_01	Solids feed flow (t/h)	•	◦	◦	•
TO_LI6401_01	Cell level LI640101 (mm)	•	◦	◦	◦
TO_LI6401_02	Cell level LI640102 (mm)	•	◦	◦	◦
TO_LI6402_01	Cell level LI640201 (mm)	•	◦	◦	◦
TO_LI6411_01	Cell level LI641101 (mm)	•	◦	•	◦
TO_LI6411_02	Cell level LI641102 (mm)	•	◦	◦	◦
TO_LI6412_01	Cell level LI641201 (mm)	•	•	◦	•
TO_LI6412_02	Cell level LI641202 (mm)	•	◦	◦	•
TO_LI6431_01	Cell level LI643101 (mm)	•	◦	◦	•
TO_LI6432_01	Cell level LI643201 (mm)	•	◦	◦	◦
TO_MF6401_M1_EST1	Motor status MF6401	•	•	◦	◦
TO_MF6402_M1_EST1	Motor status MF6402	•	◦	◦	◦
TO_MF6411_M1_EST1	Motor status MF6411	•	◦	◦	◦
TO_MF6412_M1_EST1	Motor status MF6412	•	◦	•	◦
TO_MF6421_M1_EST1	Motor status MF6421	•	◦	◦	◦
TO_PHY4804_02	Starch dosage setpoint (g/t)	•	•	•	•
TO_PHY4814_02	Amine dosage (g/t)	•	•	•	•
TO_SIMF640101	Overflow velocity (SIMF640101) (m/s)	•	◦	◦	•
TO_SIMF640102	Overflow velocity (SIMF640102) (m/s)	•	◦	◦	◦
TO_SIMF640201	Overflow velocity (SIMF640201) (m/s)	•	◦	◦	•
TO_SIMF640202	Overflow velocity (SIMF640202) (m/s)	•	•	•	•
TO_SIMF641101	Overflow velocity (SIMF641101) (m/s)	•	◦	◦	•
TO_SIMF641102	Overflow velocity (SIMF641102) (m/s)	•	•	◦	•
TO_SIMF641201	Overflow velocity (SIMF641201) (m/s)	•	•	•	•
TO_SIMF641202	Overflow velocity (SIMF641202) (m/s)	•	◦	◦	•
TO_SIMF6421	Overflow velocity (SIMF6421) (m/s)	•	◦	•	•
TO_SIMF6422	Overflow velocity (SIMF6422) (m/s)	•	•	◦	•
TO_SIMF6431	Overflow velocity (SIMF6431) (m/s)	•	◦	•	•
TO_SIMF6432	Overflow velocity (SIMF6432) (m/s)	•	◦	◦	◦
TO_WI4804_01	Starch flow (kg/h)	•	•	•	•