

MONASH INDUSTRY TEAM INITIATIVE (MITI)

WASTEWATER TRACKING REPORT

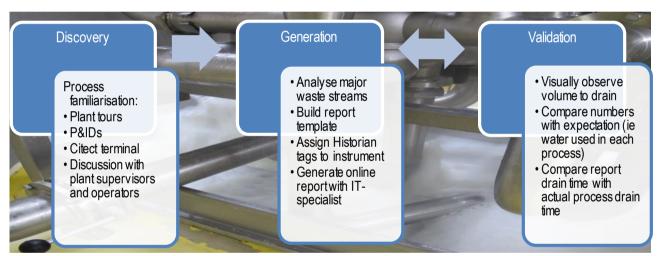
Paul Michalski, Caitlin Nong, Anjali Sharma, Stephen Tan

PROJECT BACKGROUND

The Saputo Dairy Allansford site has expanded significantly to meet new production demands. Wastewater management is essential to business operations, however there is a lack of visibility within the plant regarding the usage of water in each process in each plant. The aim of this project is to generate real-time drainage reports in order to track water usage throughout the site.



APPROACH



OUTCOME

- Cheese plantdrainage report
- Usage level indicator
- Whey plant report template

FUTURE WORK

- Extend work to other plants
- Improve Report Usability
- Report to include all minor sources to drain

Water Balance Cheese Drainage Report 18 Feb 20 To

Cheese CIP System	Count (Number of CIPs)	Caustic to Drain	Acid to Drain	Water to Drain	Lov	/ High	Traffic	Avg Vol per CIP		
System 1	38	115	23	82,915	85,000	180,000	Low	2182.0		
System 2	4	550	0	8,748	18,000	25,000	Low	2187.0		
System 3	3	0	0	0	26,000	42,000	Low	0.0		
System 4	36	0	15,932	91,371	80,000	170,000	Mid	2538.1		
Total	81	665	15,955	183,034	209,000	417000	Low	2259.7		
Data from Historian Dr	ainage Reports									
Report Name	Report Long Desc			Flo	wmeter	Drain ∀alve	Volume	Low	High	Traffic
System 5	Volume to Drain			166	FT0601	16.05.03 De	292	5,000	13,000	Low
System 6	Volume to Drain			166	FT0552	16.05.07 De	2,912	5,000	13,000	Low
System 7	Seal Water						27,000			
						Total	30,204	37,000	53,000	Low
Data from Historian W	ater Reports									
Report Name	Report Long Desc			Volum	е	Low High	Traffic			
System 8	Total water			185,33	5					
System 9	Wash water 1			129,32	0					
System 10	Wash water 2			31,72	0					
System 11	Water to Drain			24,29	5 100,	000,000	Low			





