



Flow & Rain Gauge Report



UCD

September 2016

Project

Title: Flow and Rain Gauge Survey
Client: UCD Campus
Contact: Enda Conaty/Peter O'Dwyer
Engineer: Ray Scully
Date: September 2016

Brief

Lowflo was commissioned to carry out a Sewage Flow and Rain Gauge Survey at the UCD Campus. The purpose of the survey was to establish the current flow from the sewer outlet and also measure the amount of rainfall.

Procedure

- Install the probe into the outlet of the pipe
- Measure the level and input into the flow meter. We should now be able to get accurate flow data from the preprogrammed flow meter.
- Ensure equipment is left in a safe location and protected from bad weather conditions
- Replace cover to the manhole
- Raw data in output on an excel spreadsheet
- Graph presented in PDF format
- Place rain gauge on roof of Sutherland building
- Ensure equipment is left in a safe location
- Raw data in output on an excel spreadsheet
- Graph presented in PDF format

Kind Regards
Ray Scully
Operations Manager

Lowflo – Water Control & Leak Detection

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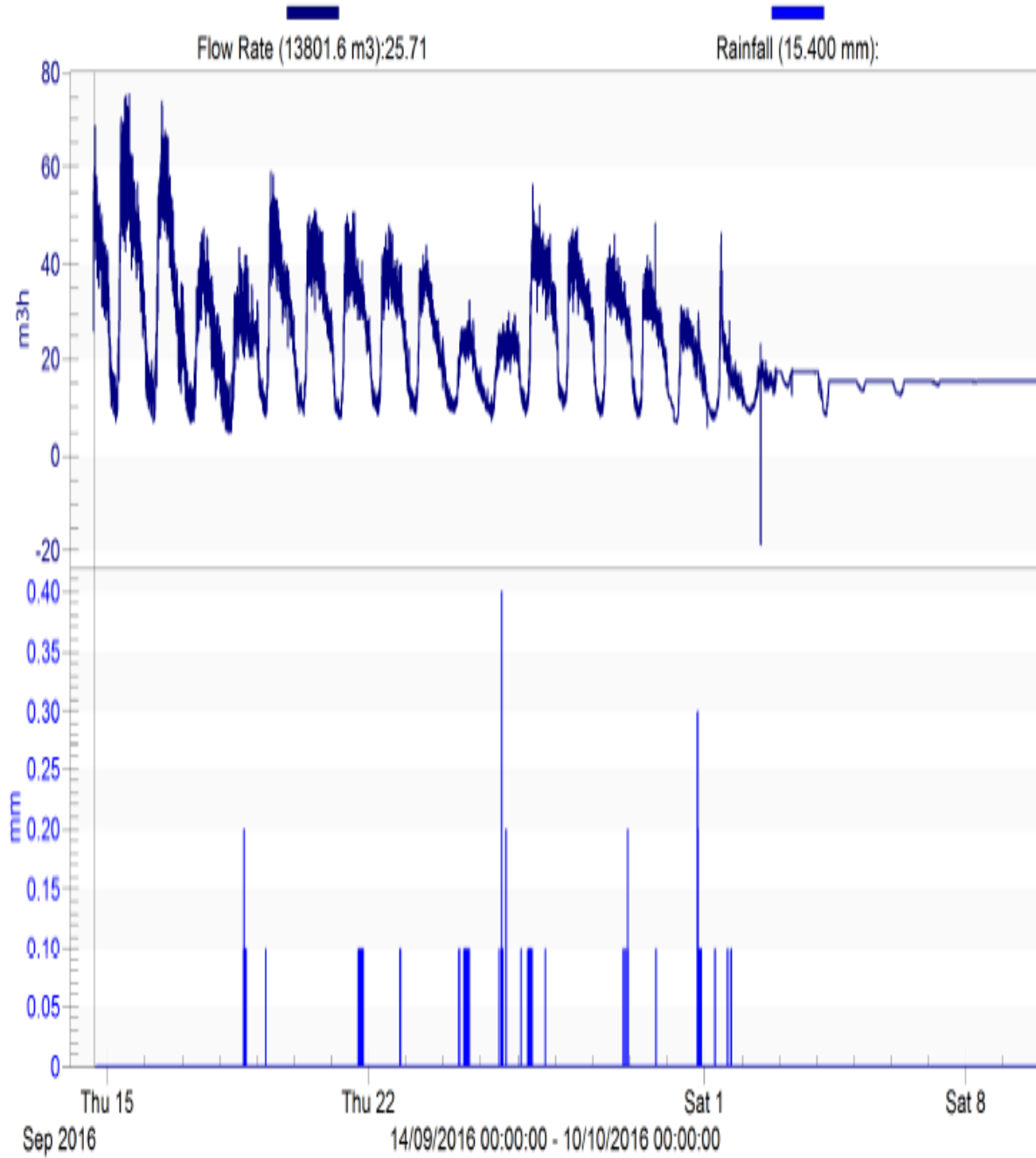
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Flow Graph.

UCD Outfall
Flow & Rainfall Graph



Flow Table

PEAK FLOW
MEASURED

UCD Outfall
Flow & Rainfall Table

Date/Time	Flow Rate (m3h)	Flow Rate (m3h)	Flow Rate (m3h)	Flow Rate (m3)	Rainfall (mm)
	Average	Maximum	Minimum	Total	Summary
14/09/2016 00:00:...	32.152	68.439	25.713	771.654	0.000
15/09/2016 00:00:...	39.101	75.637	7.045	938.423	0.000
16/09/2016 00:00:...	35.298	74.078	6.995	847.141	0.000
17/09/2016 00:00:...	25.266	47.386	6.963	606.391	0.000
18/09/2016 00:00:...	20.929	43.417	4.860	502.295	1.600
19/09/2016 00:00:...	30.241	59.006	8.029	725.795	0.100
20/09/2016 00:00:...	29.407	51.233	8.424	705.759	0.000
21/09/2016 00:00:...	27.552	50.658	7.801	661.259	2.100
22/09/2016 00:00:...	27.561	48.101	8.426	661.475	0.400
23/09/2016 00:00:...	24.263	43.924	8.766	582.303	0.000
24/09/2016 00:00:...	17.527	32.602	8.986	420.658	2.200
25/09/2016 00:00:...	17.743	30.194	7.211	425.832	1.700
26/09/2016 00:00:...	30.212	56.452	8.341	725.077	2.600
27/09/2016 00:00:...	28.674	47.565	9.793	688.177	0.000
28/09/2016 00:00:...	26.450	46.107	8.230	634.811	1.100
29/09/2016 00:00:...	23.643	48.531	8.067	567.434	0.100
30/09/2016 00:00:...	18.500	31.372	6.867	443.994	3.200
01/10/2016 00:00:...	15.810	46.390	6.160	379.443	0.300
02/10/2016 00:00:...	13.771	23.066	-18.753	330.509	0.000
03/10/2016 00:00:...	16.808	18.110	12.623	403.385	0.000
04/10/2016 00:00:...	14.437	17.351	8.289	346.484	0.000
05/10/2016 00:00:...	15.119	15.409	13.360	362.849	0.000
06/10/2016 00:00:...	14.843	15.409	12.439	356.231	0.000
07/10/2016 00:00:...	15.330	15.409	14.522	367.932	0.000
08/10/2016 00:00:...	15.396	15.409	15.197	369.504	0.000
09/10/2016 00:00:...	15.409	15.409	15.382	369.298	0.000
		Maximum Flow Rate 75.637 (m3h)	Minimum Flow Rate -18.753 (m3h)	Average Flow Rate 545.927 (m3)	Average Rainfall 0.592 (mm)
	Total 14194.1 m3			Total 14194.1	Total 15.400 mm