

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Two noise monitoring locations are currently being used – AN2 and NSR1. The sound meter records in the 1/3 octave band.
Weather Station	The data used for this reporting period was taken from the Aughoose Site meteorological station.
TSS	There are TSS meters on the each of discharges on the Siltbuster.
Sondes	The results are displayed graphically.
Discharge pipe flow	The results are displayed graphically.

1.2 Rainfall Data

Date	Rainfall mm
24/11/2011	17.4
25/11/2011	5.2
26/11/2011	21.8
27/11/2011	1.6
28/11/2011	16.6
29/11/2011	17.4
30/11/2011	29.0
Total	109.0

1.3 Summary

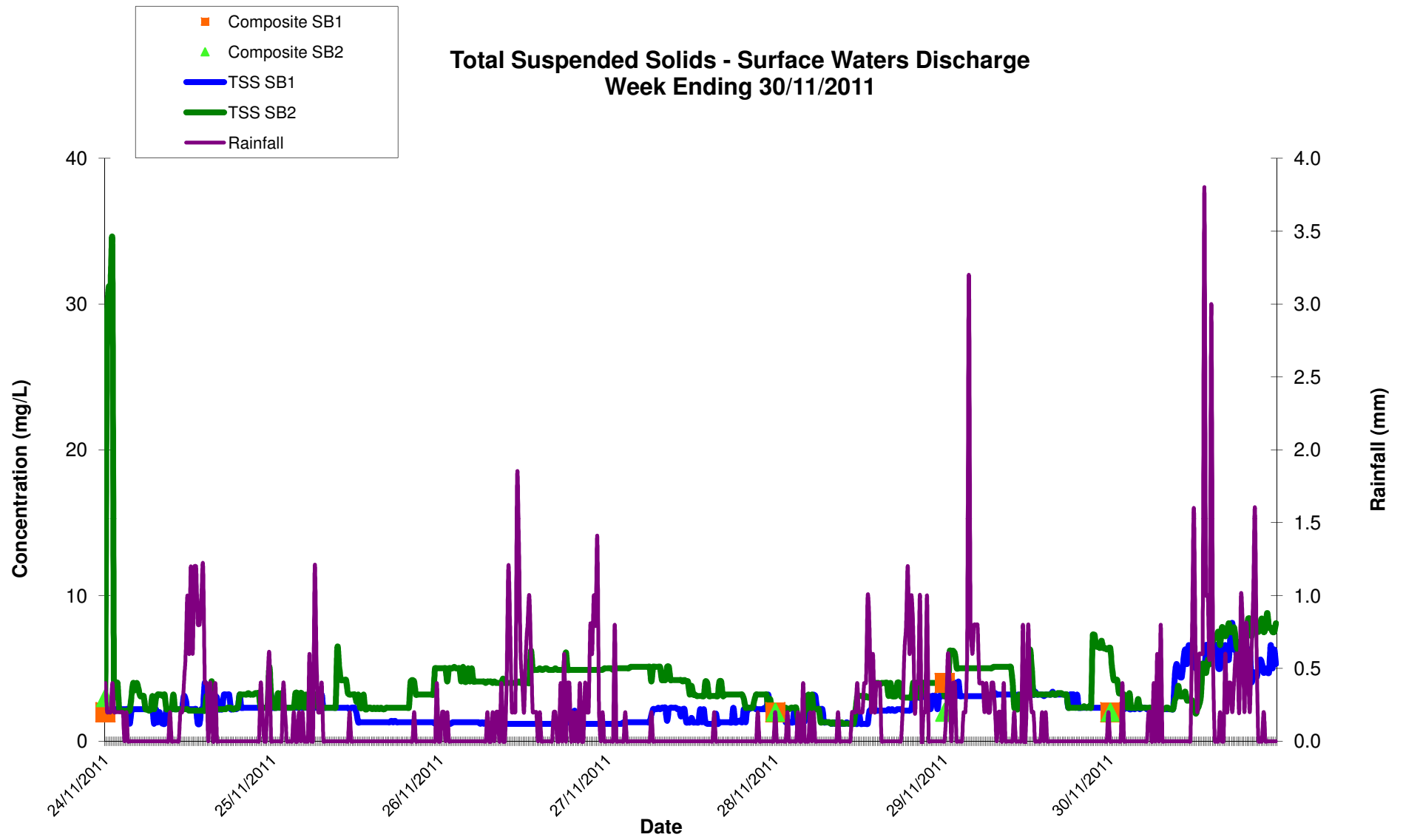
Environment	Comments
Weather	There was a total of 109mm of rainfall during the reporting period, with a temperature range of 4.3°C to 12.2°C.
Noise	There was one occasion of elevated noise levels on 29 th Nov at NSR1, due to a localised noise source at this location. There were also technical issues and power issues with the noise meter at AN2 resulting in loss of data for the recording period. Issues are currently being worked on.
Surface Water	There were no identified surface water exceedences during the reporting period from the siltbuster.

2 Environmental Exceedances / Incidents /

There were no environmental exceedences identified during the reporting period.

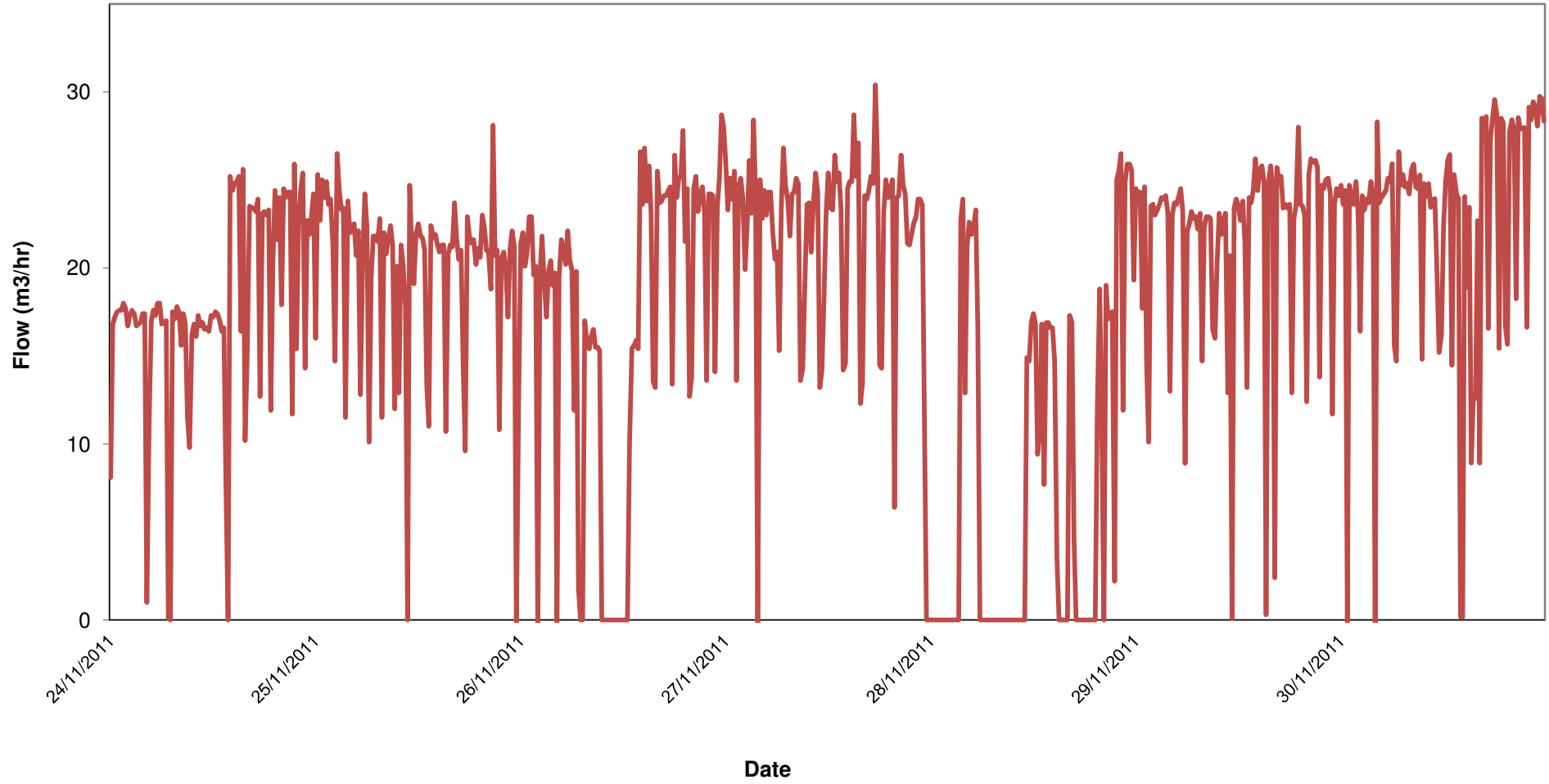
Day Time Noise Monitoring / Max Hourly L_{Aeq} Record Sheet											
Determinant Results											
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB			*Comments	
					Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amax}	L _{Amin}		
Action Limit							60.0				
Target Limit							65.0				
AN2			24/11/2011							Loss of data due to technical error	
NSR1	6.0	10.8	24/11/2011 13:00:00	1:00	6.6	203.1	65.6	83	49.3		
AN2			25/11/2011							Loss of data due to power failure	
NSR1	4.5	7.7	25/11/2011		5.0	228.1				Loss of data due to power failure	
AN2			28/11/2011							Loss of data	
NSR1	7.8	10.2	28/11/2011 12:00:00	1:00	4.9	183.1	58.8	78.4	43.5		
AN2			29/11/2011							Loss of data due to technical error	
NSR1	4.3	7.0	29/11/2011 14:00:00	1:00	3.9	227.6	71.2	115.5	21.4	Elevated noise from localised noise source near the meter	
AN2			30/11/2011							Loss of data due to technical error	
NSR1	4.7	8.1	30/11/2011 15:00:00	1:00	6.0	206.2	62.8	81	45.6		
* Wind speeds in excess of 5 m/s negatively impact noise readings (as per EPA Guidance Note on Noise Measurement).											
**Allowance of +/- 1.5dB accuracy of sound level meter (ref: IEC 61672 (2002-2005))											
The results show the maximum L _{Aeq} (1hr) for each day of monitoring											

Total Suspended Solids - Surface Waters Discharge Week Ending 30/11/2011

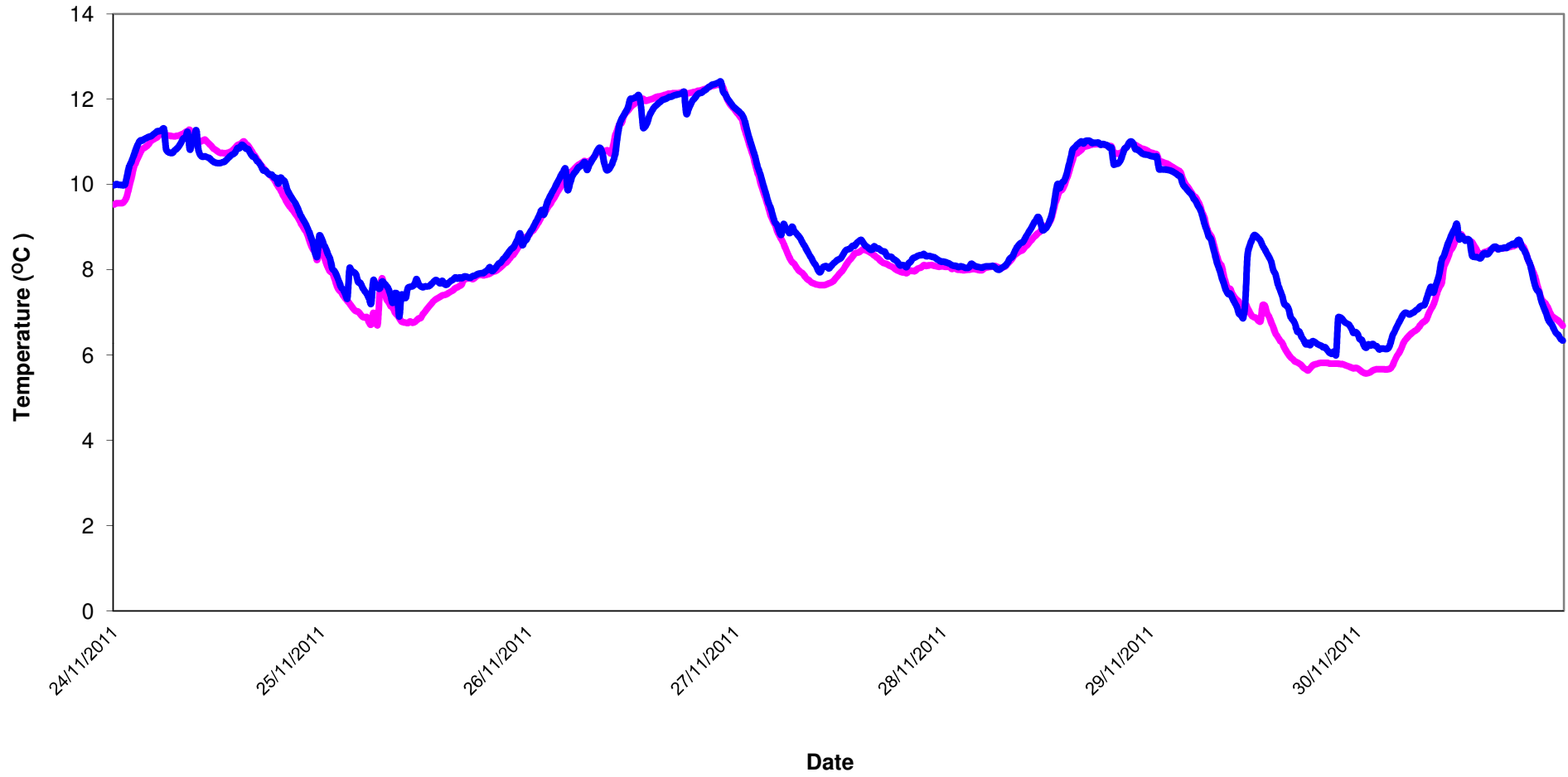


Flow - Surface Waters Discharge
Week ending 30/11/2011

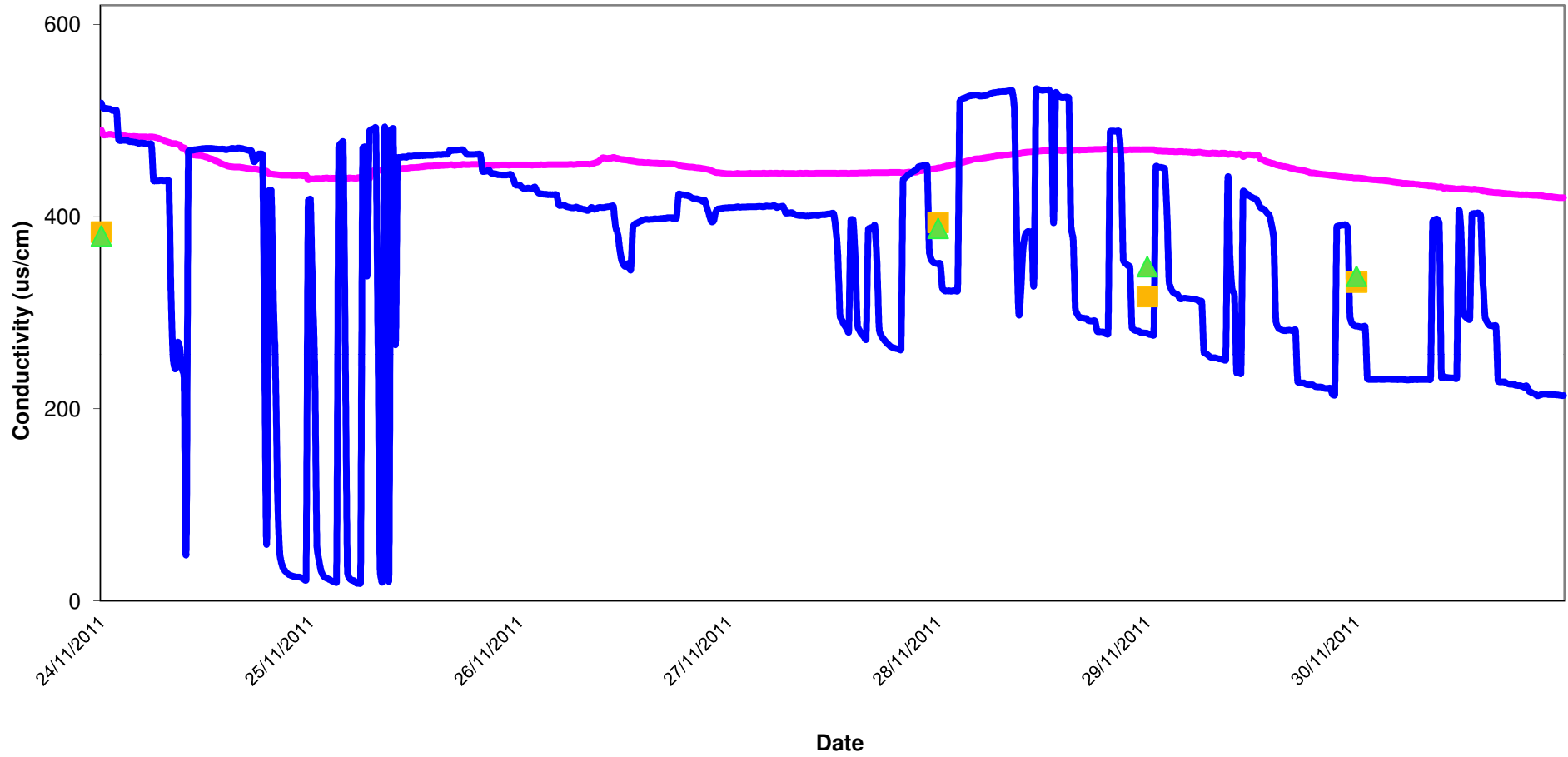
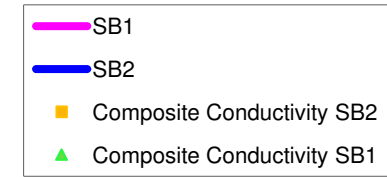
Flow



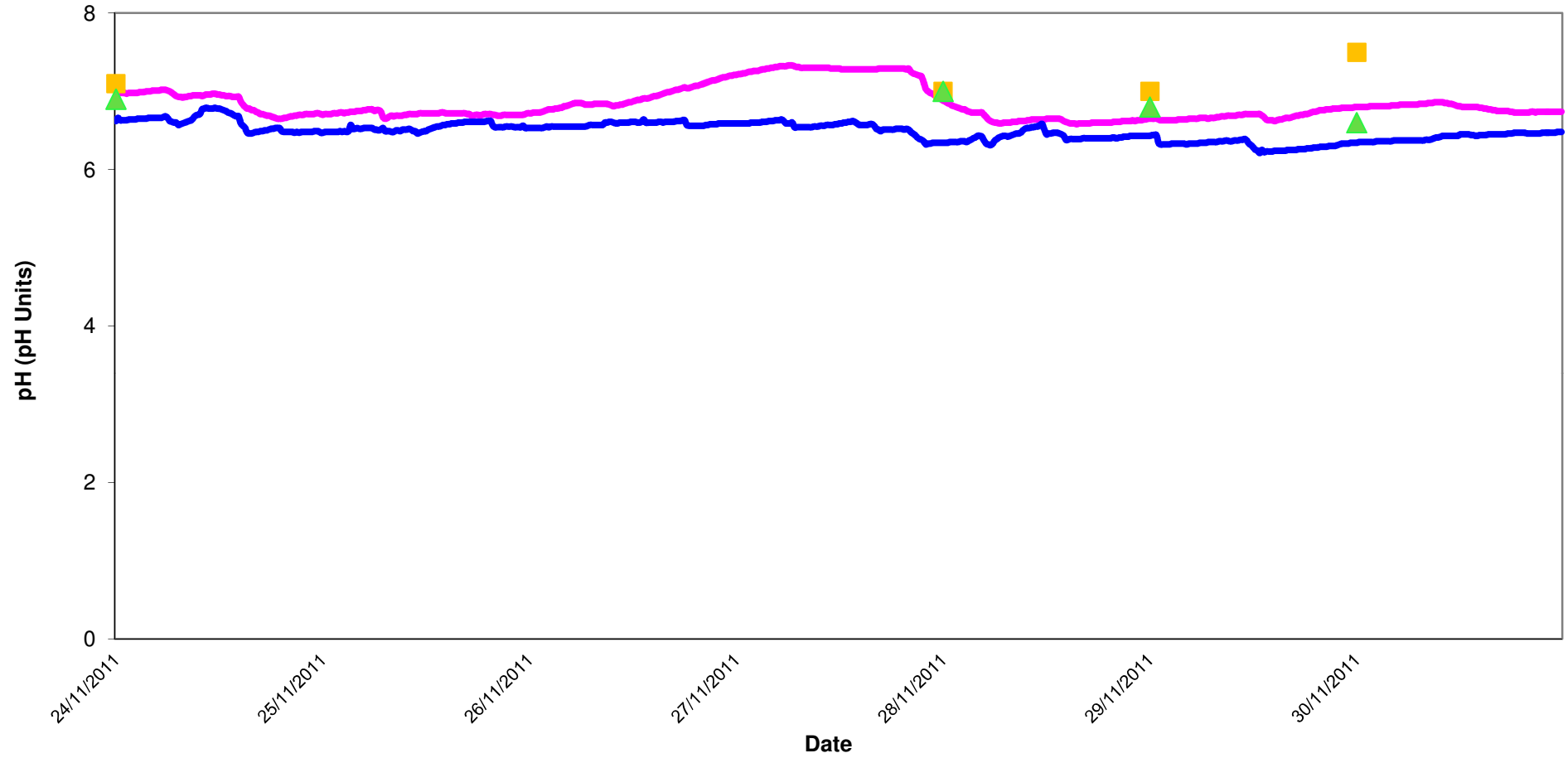
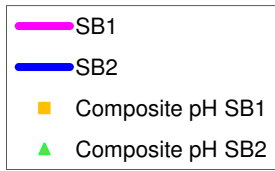
Temperature - Surface Waters Discharge Week ending 30/11/2011



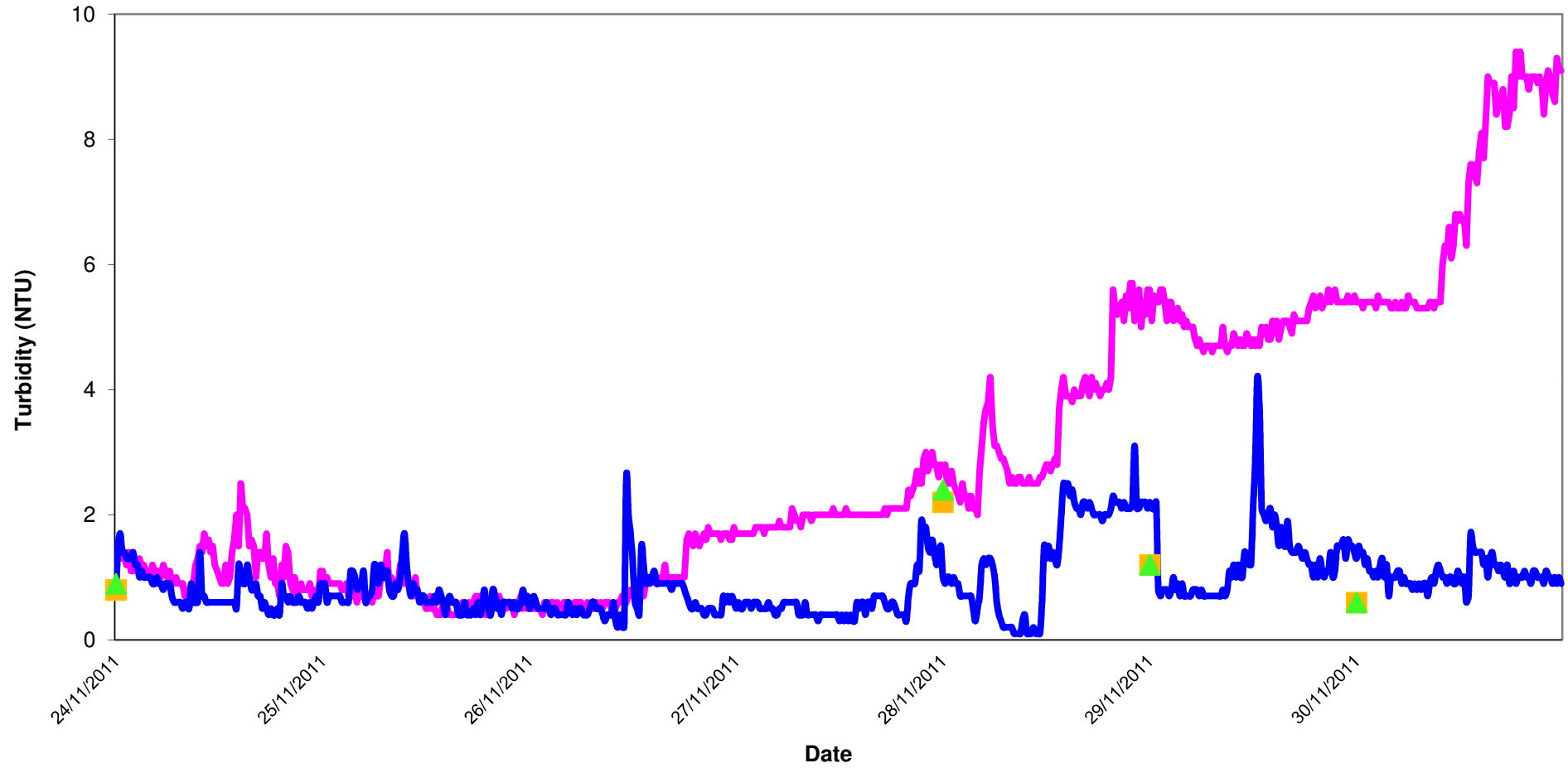
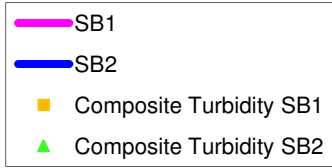
Conductivity - Surface Waters Discharge Week ending 30/11/2011



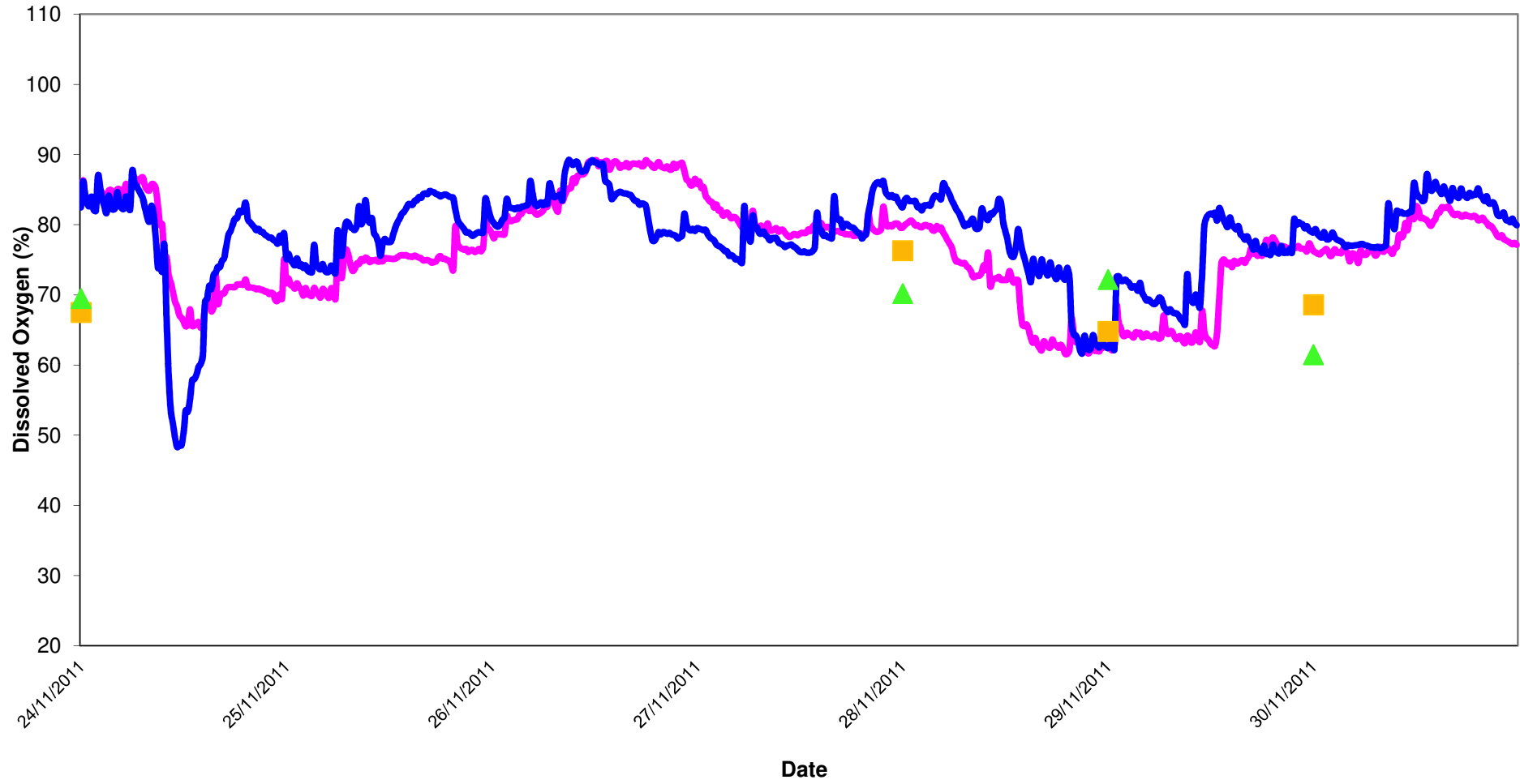
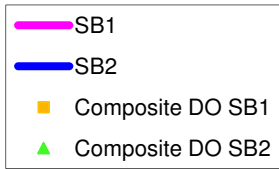
pH - Surface Waters Discharge Week Ending 30/11/2011



Turbidity - Surface Waters Discharge Week Ending 30/11/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 30/11/2011



Appendix 1

Appendix 1: Surface Water Monitoring Record Sheet- Onsite Monitoring						
Location	Date	Temp	DO	Cond.	Turbidity	pH
		C	% Sat	µS/cm	NTU	pH Units
DL2	24/11/2011	11.5	80.6	317.0	4.3	6.4
DL2	25/11/2011	8.5	83.4	370.0	11.8	6.1
DL2	28/11/2011	9.6	47.3	271.0	5.0	6.0
DL2	29/11/2011	10.1	86.9	261.0	4.0	6.0
DL2	30/11/2011	8.0	91.1	310.0	2.5	7.2
	Grey shaded areas denote parameters that cannot or were not analysed on-site (results given are from CLS Labs).					
	= Indicative Only					
< LOD	= Below Limit of Detection		> LOD	= Above Limit of Detection		