

1 Monitoring Data

1.1 Monitoring Equipment

Noise	Two noise monitoring locations are currently being used – AN2 and Noise Sensitive Receptor (NSR). The sound meter records in the 1/3 octave band.
Weather Station	The data used for this reporting period was taken from the Terminal 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
27/10/2011	1.2
28/10/2011	3.8
29/10/2011	9.0
30/10/2011	14.0
31/10/2011	9.2
01/11/2011	2.2
02/11/2011	4.8
Total	44.2

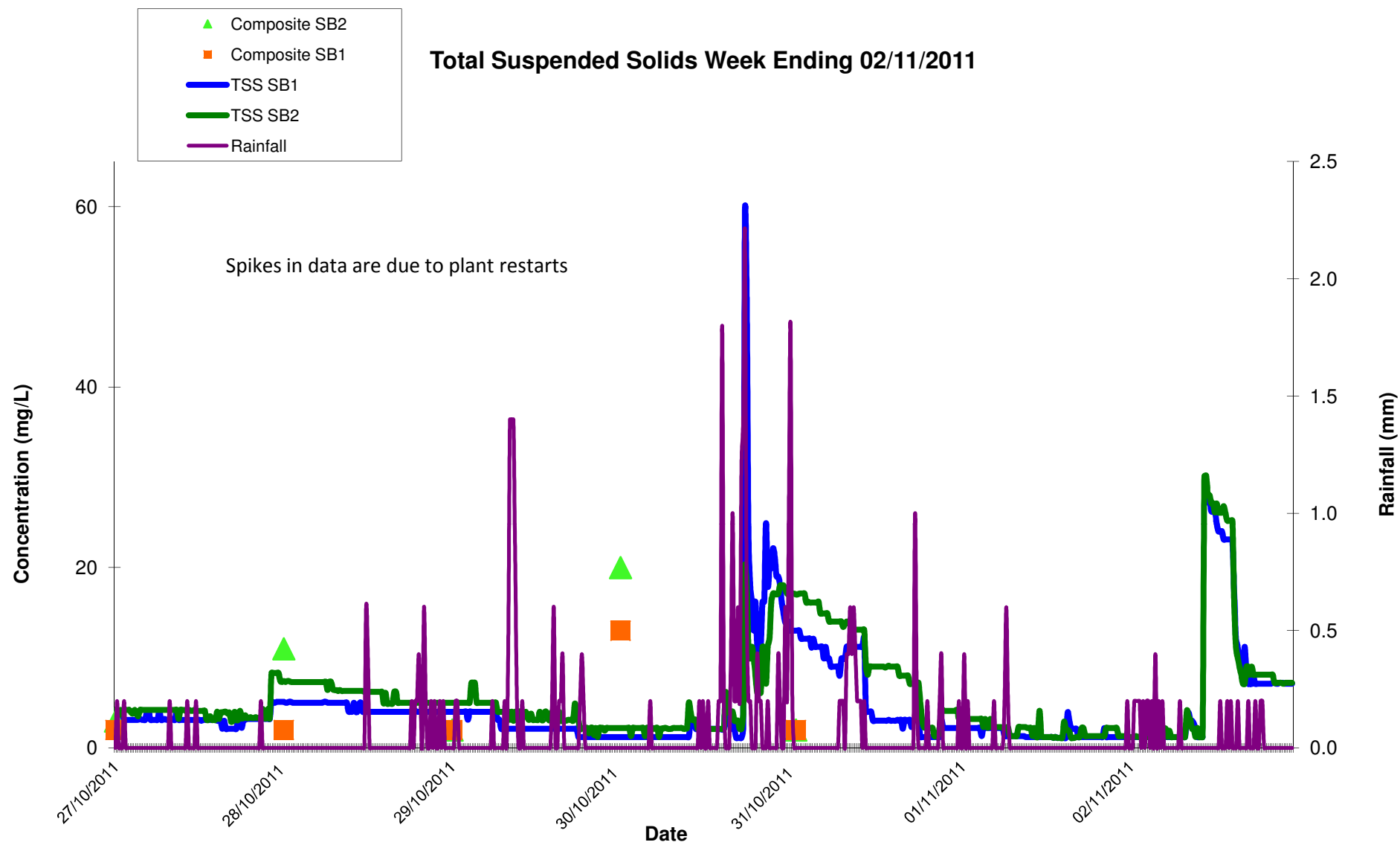
1.3 Summary

Environment	Comments
Weather	There was a total of 44.2mm of rainfall during the reporting period, with a temperature range of 5.3°C to 14.4°C.
Noise	There were no noise level exceedences during the reporting period. Elevated noise levels on 2 nd November were due to high winds.
Surface Water	There were no surface water exceedences during the reporting period.

2 Environmental Exceedances / Incidents /

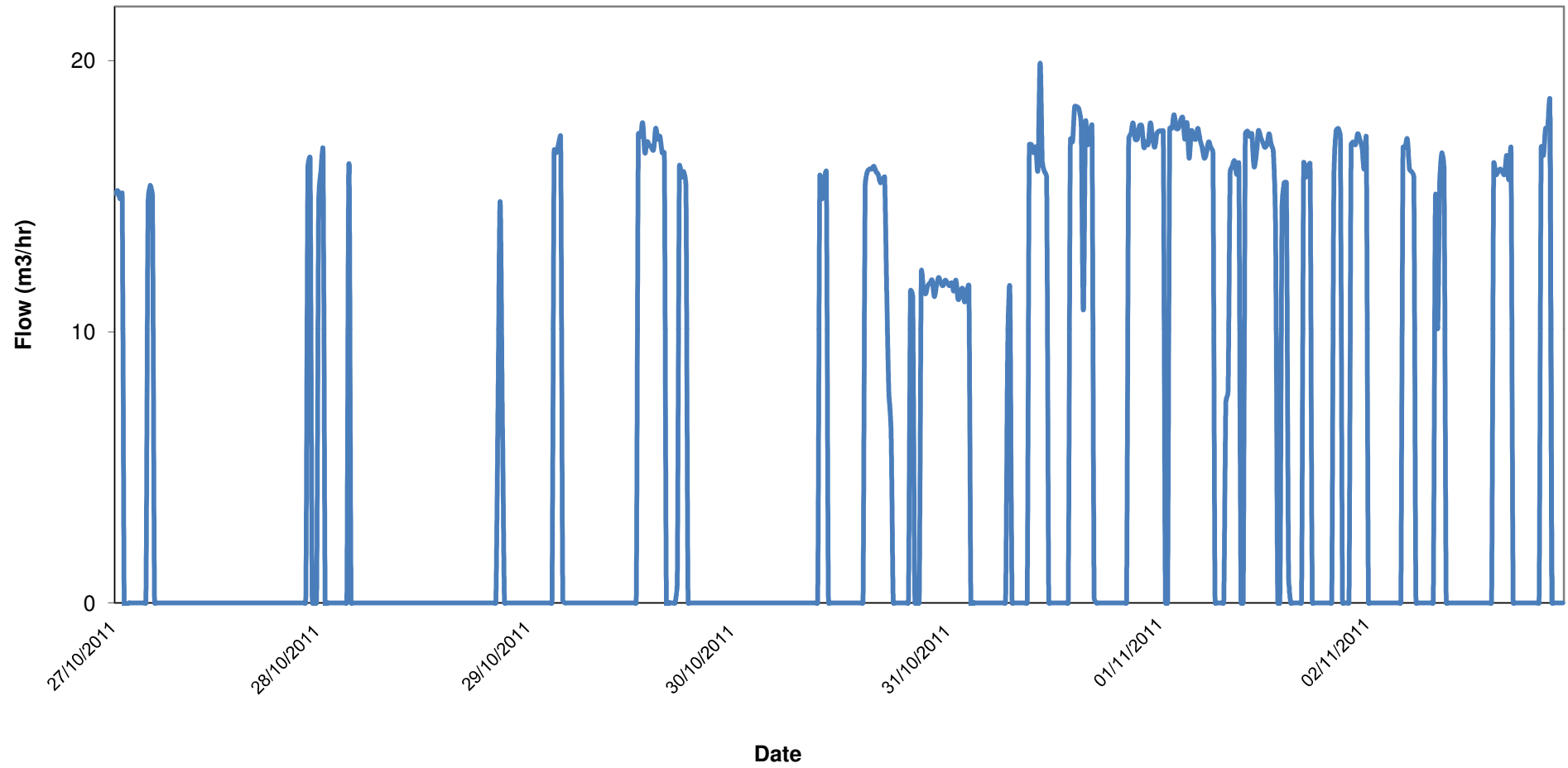
There were no environmental exceedences identified during the reporting period.

Day Time Noise Monitoring 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	5.3	11.2	27/10/2011 14:00:00	1:00	2.5	261.6	64	94	34.9	
NSR			27/10/2011 10:00:00	1:00			55.5	80.8	30.6	
AN2	5.5	13.2	28/10/2011 15:00:00	1:00	6.6	188.4	56.2	77.7	41.8	
NSR			28/10/2011	1:00						Technical error with noise meter
AN2	5.6	12.2	01/11/2011 13:00:00	1:00	4.4	178.1	54.9	69.6	33	
NSR			1/11/2011	1:00						Technical error with noise meter
AN2	10.4	13.1	02/11/2011 09:00:00	1:00	8.9	144.7	61.1	78.4	41.5	Elevated noise levels due to high winds
NSR			02/11/2011 13:00:00	1:00			68.6	85.8	43.2	
* 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 Laeq(1hr) for each day of monitoring										
NSR: Nearest Sensitive Receptor										

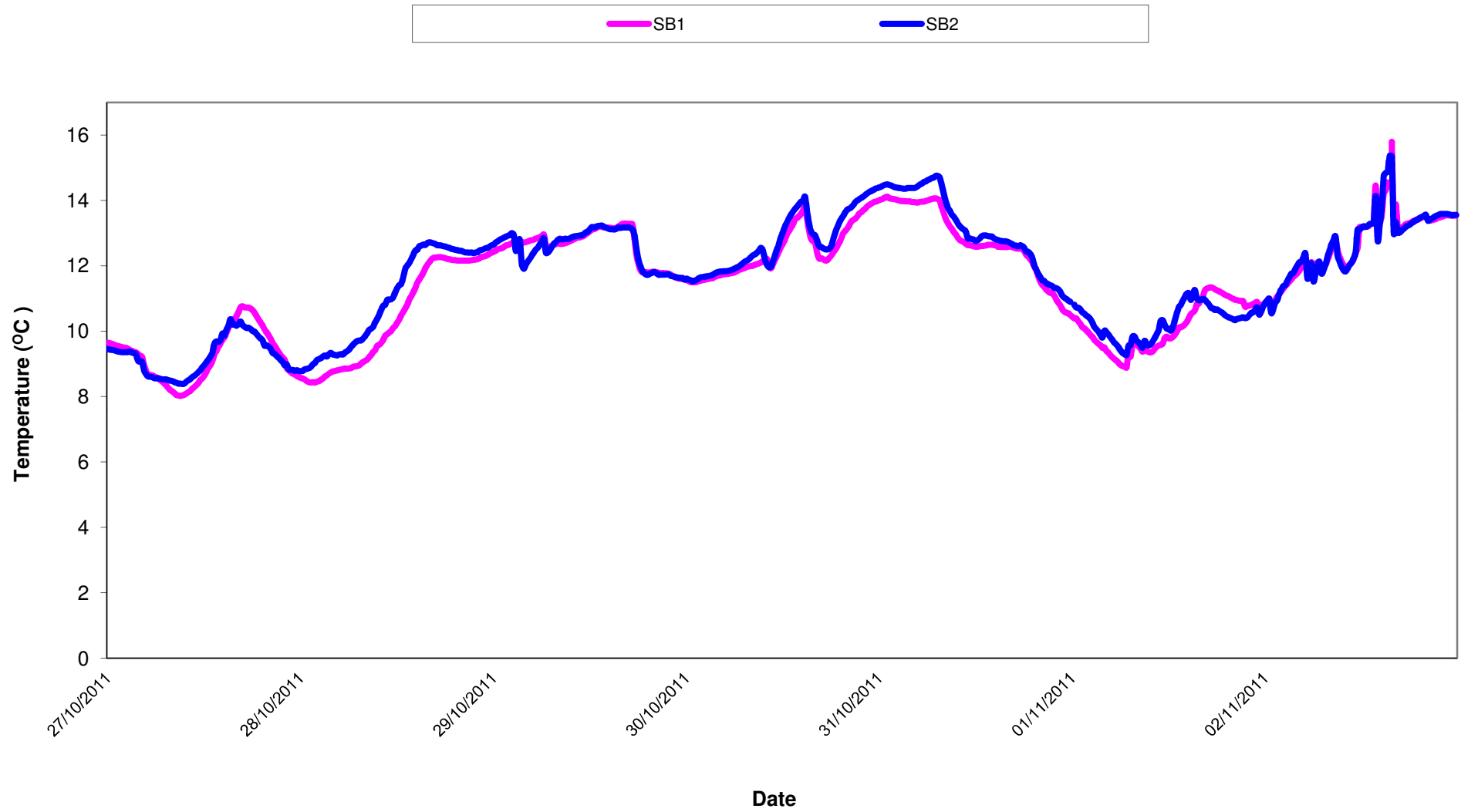


Flow - Surface Waters Discharge
Week ending 02/11/2011

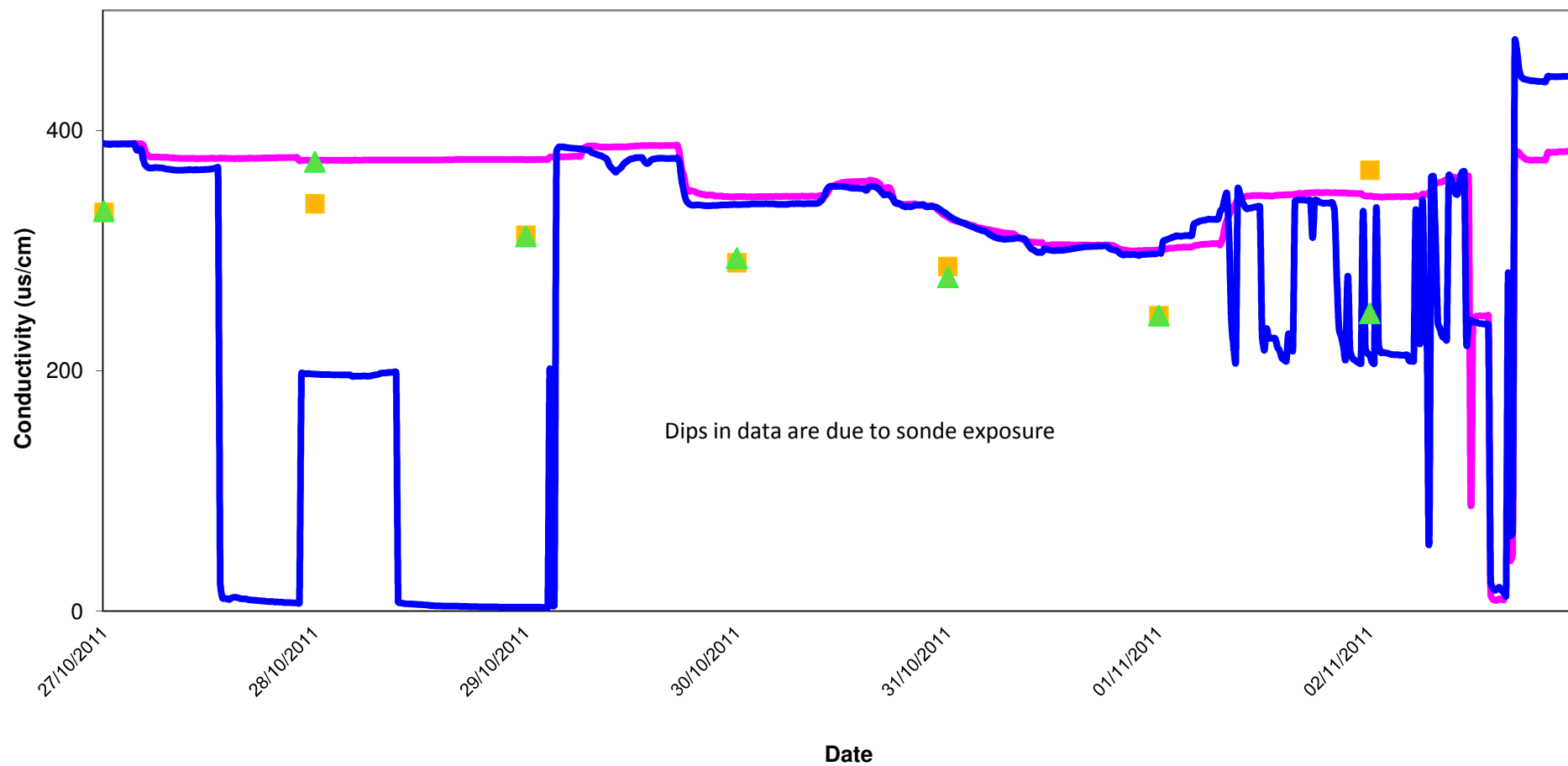
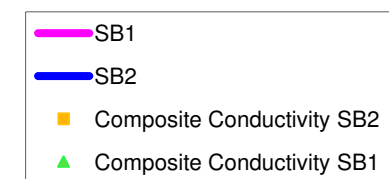
— Discharge



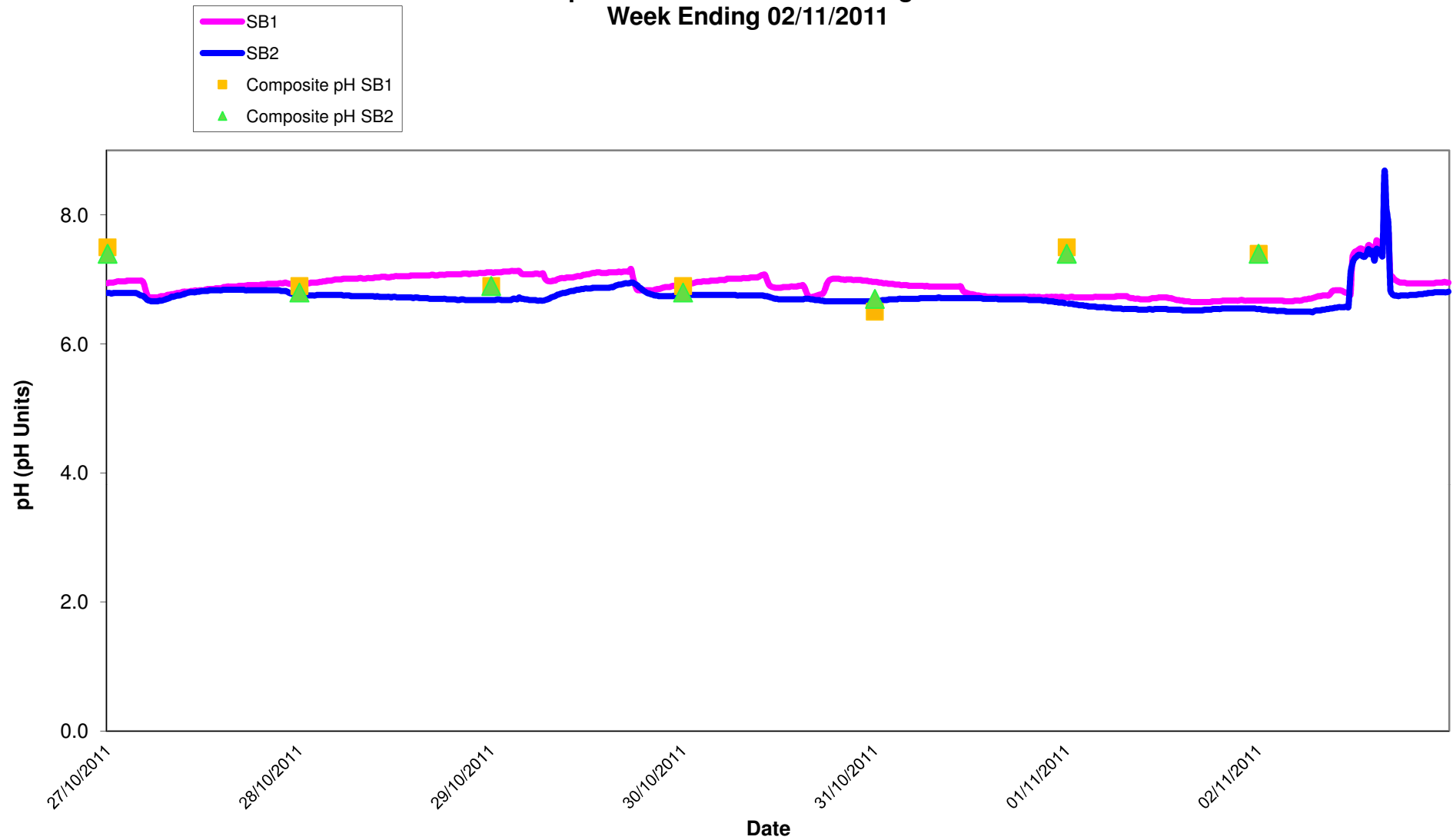
Temperature - Surface Waters Discharge
Week ending 02/11/2011



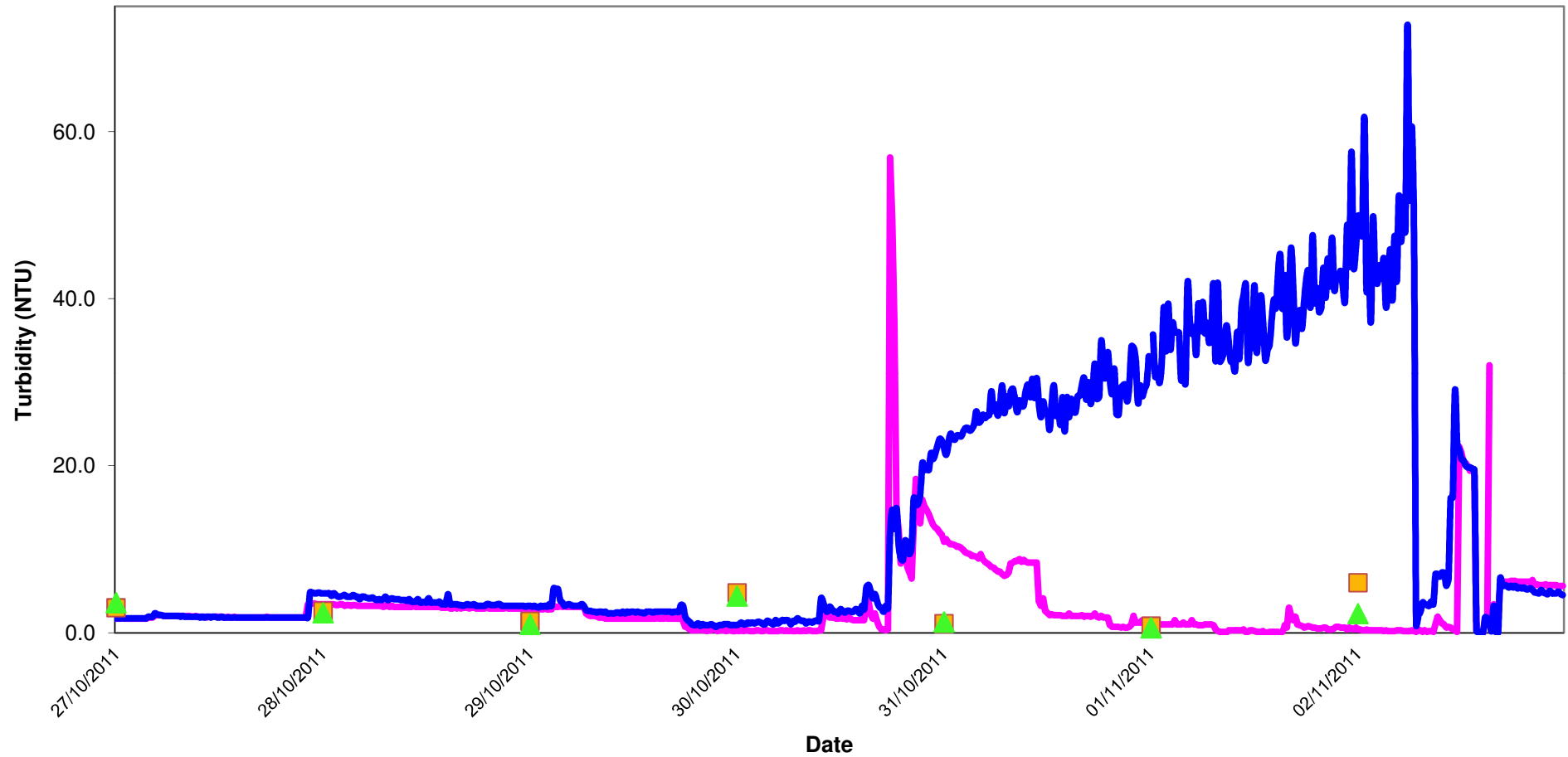
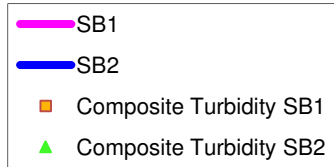
Conductivity - Surface Waters Discharge Week ending 02/11/2011



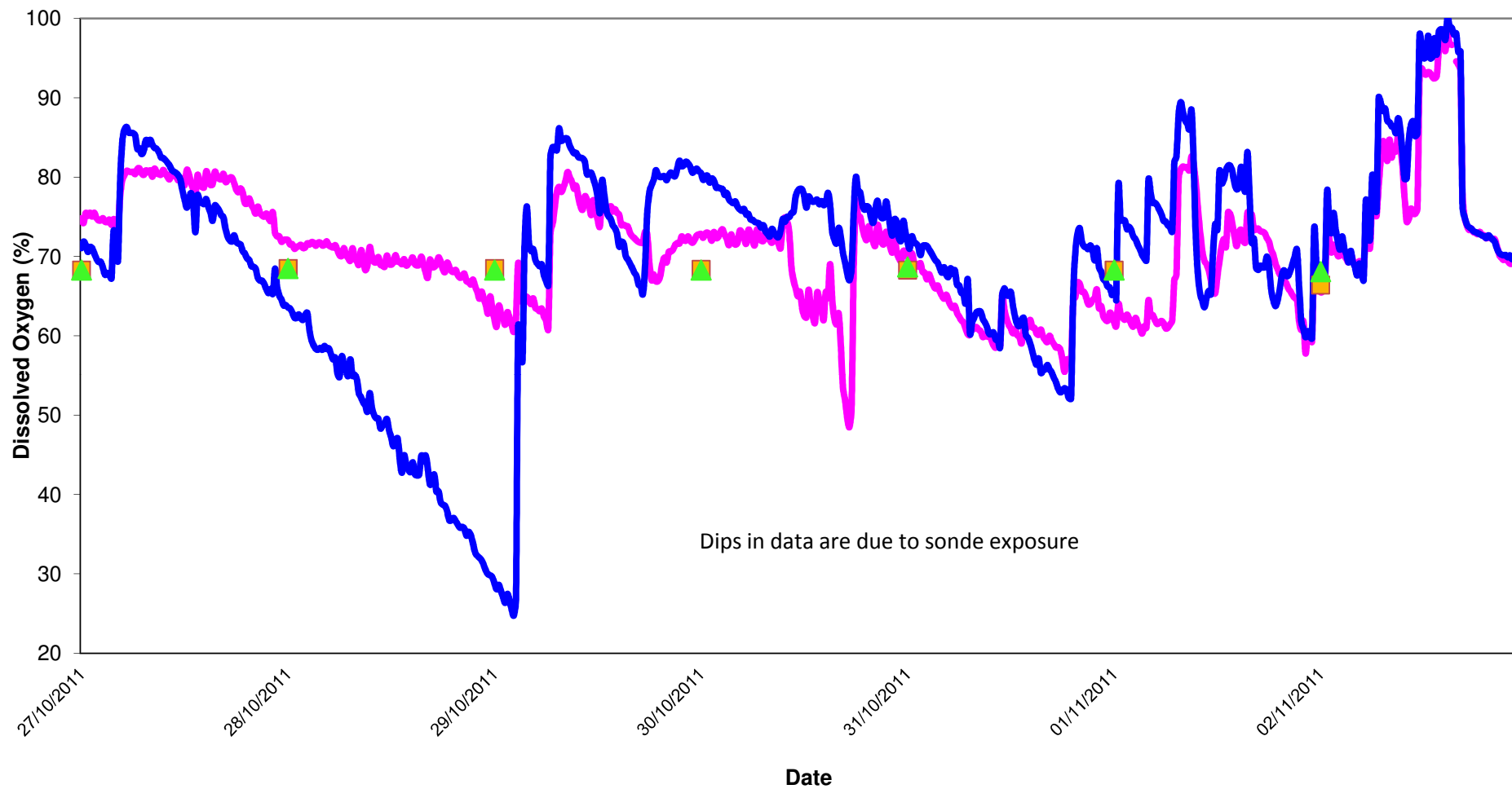
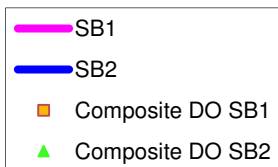
**pH - Surface Waters Discharge
Week Ending 02/11/2011**



Turbidity - Surface Waters Discharge Week Ending 02/11/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 02/11/2011



Appendix 1

Location	Date	Temp	DO	Cond.	Turbidity	pH	TDS
		C	% Sat	µS/cm	NTU	pH Units	ppm
DL2	27/10/2011			94	3.3	7.2	2
DL2	28/10/2011	9.5	41.2	192	9.8	6.3	111
DL2	01/11/2011	10.1	72.1	213	5.1	6.1	138
DL2	02/11/2011	12.1	37.4	210	3.9	6.2	133
	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			