

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
1/12/11	7.0
2/12/11	14.2
3/12/11	3.6
4/12/11	7.0
5/12/11	7.0
6/12/11	2.8
7/12/11	4.2
Total	45.8

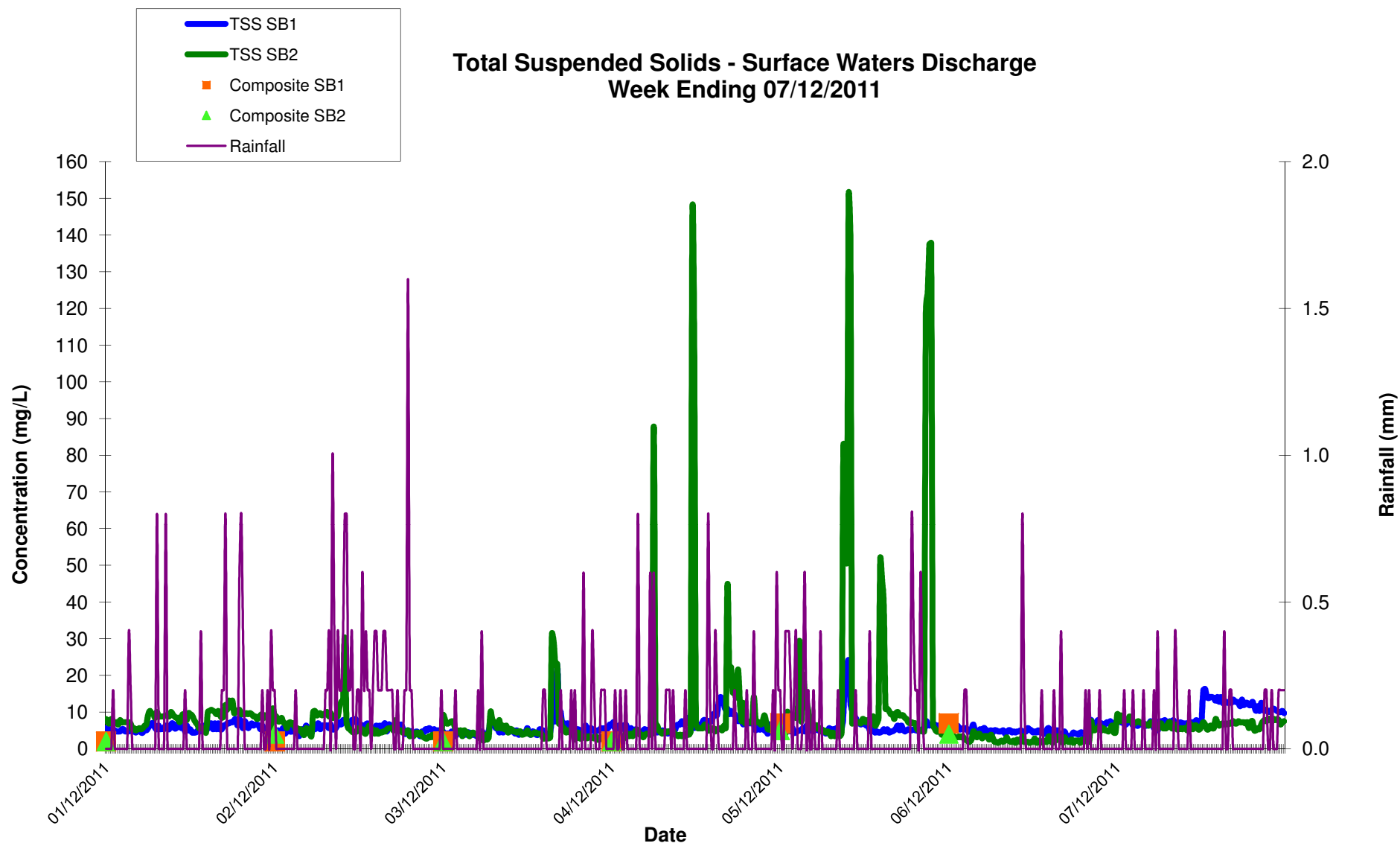
1.3 Summary

Environment	Comments
Weather	There was a total of 45.8mm of rainfall during the reporting period, with a temperature range of 2.1°C to 10.7°C.
Noise	There was one occasion of elevated noise levels on 7 th Dec at AN2, due to a elevated winds. There were technical 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. Elevated conductivity readings on 5 th , 6 th and 7 th Dec were due to a technical fault with dosing system. This has since been rectified.

2 Environmental Exceedances / Incidents /

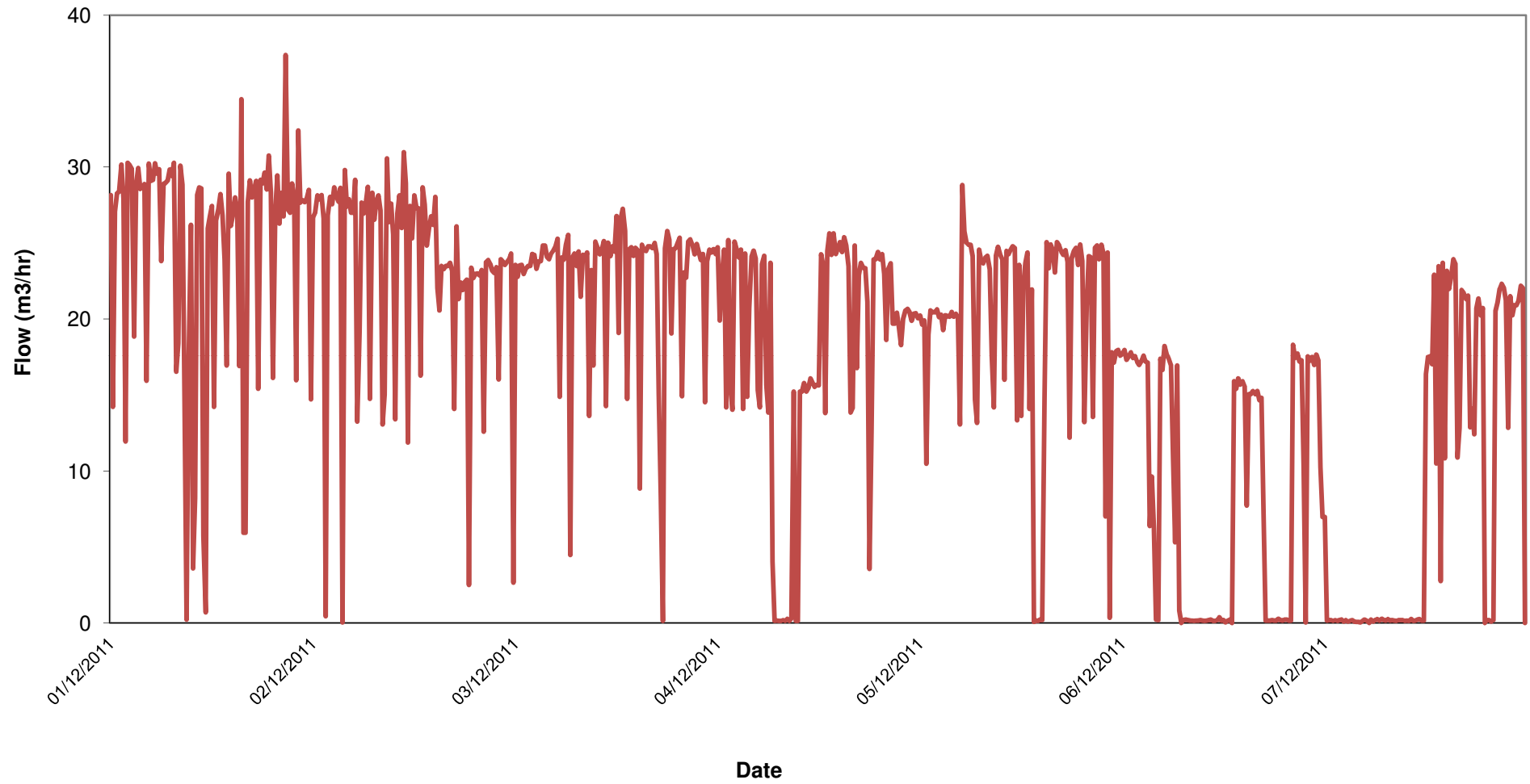
There were no environmental exceedences identified during the reporting period.

Day Time Noise Monitoring / Max Hourly L_{aeg} 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	2.1	9.3	1/12/2011	1:00		214.6				Loss of data due to technical error
NSR1			01/12/2011 14:00:00	1:00			50.1	71.4	30.9	
AN2	3.3	10.7	2/12/2011	1:00		223.8				Loss of data due to technical error
NSR1			02/12/2011 13:00:00	1:00			54.7	68.8	38.4	
AN2	2.5	6.3	5/12/2011	1:00		267.5				Loss of data due to technical error
NSR1			05/12/2011 08:00:00	1:00			56.4	80.8	33	
AN2	4.0	8.7	06/12/2011 15:00:00	1:00		243.6				Loss of data due to technical error
NSR1			06/12/2011 10:00:00	1:00			50.1	73.3	29.6	
AN2	3.8	7.6	7/12/2011	1:00		253.4	68.9	84.9	52.3	Elevated noise levels due to high winds
NSR1			07/12/2011 08:00:00	1:00			6.0	56.9	77.9	39.2
* 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 L_{aeg} (1hr) for each day of monitoring										

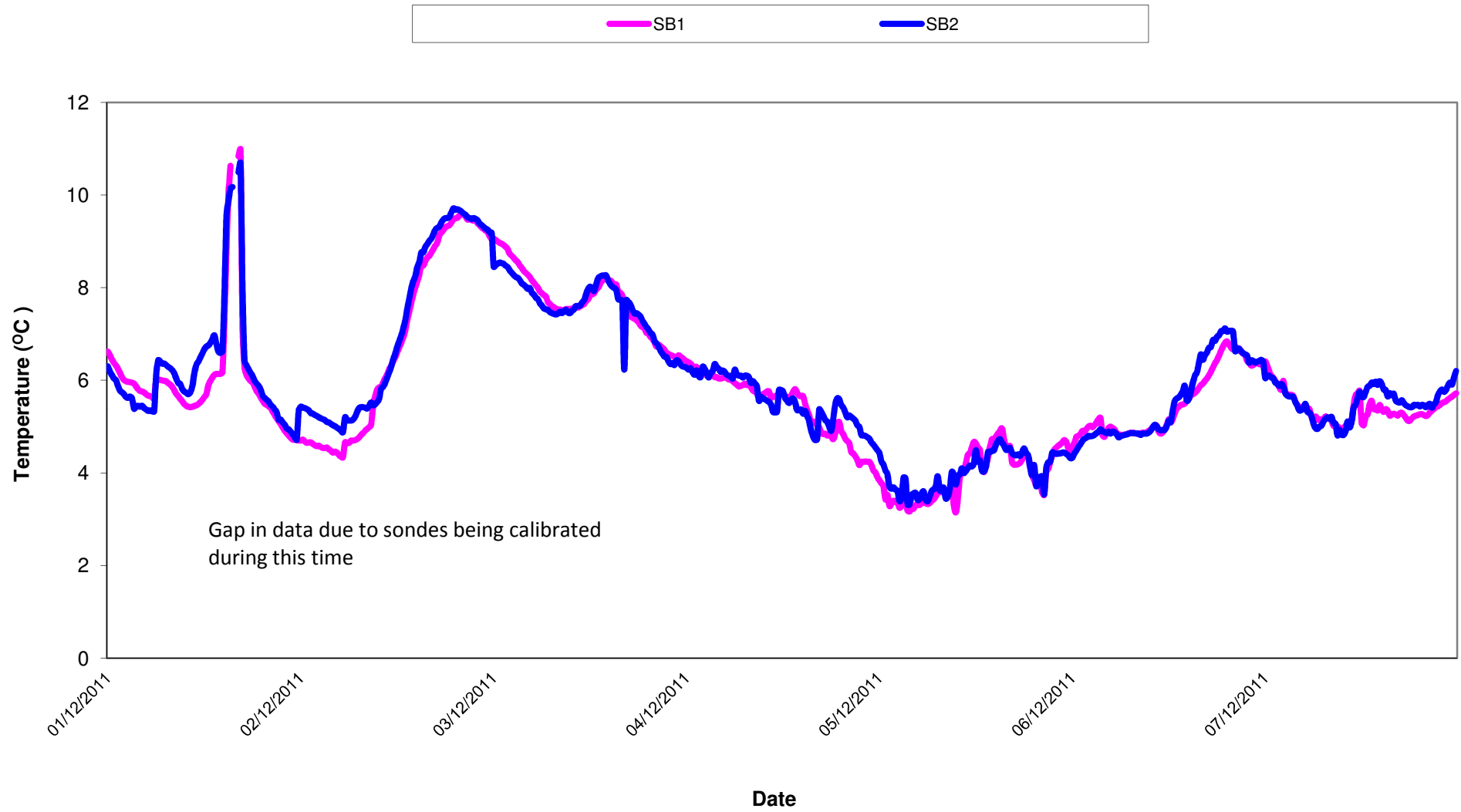


Flow - Surface Waters Discharge
Week ending 07/12/2011

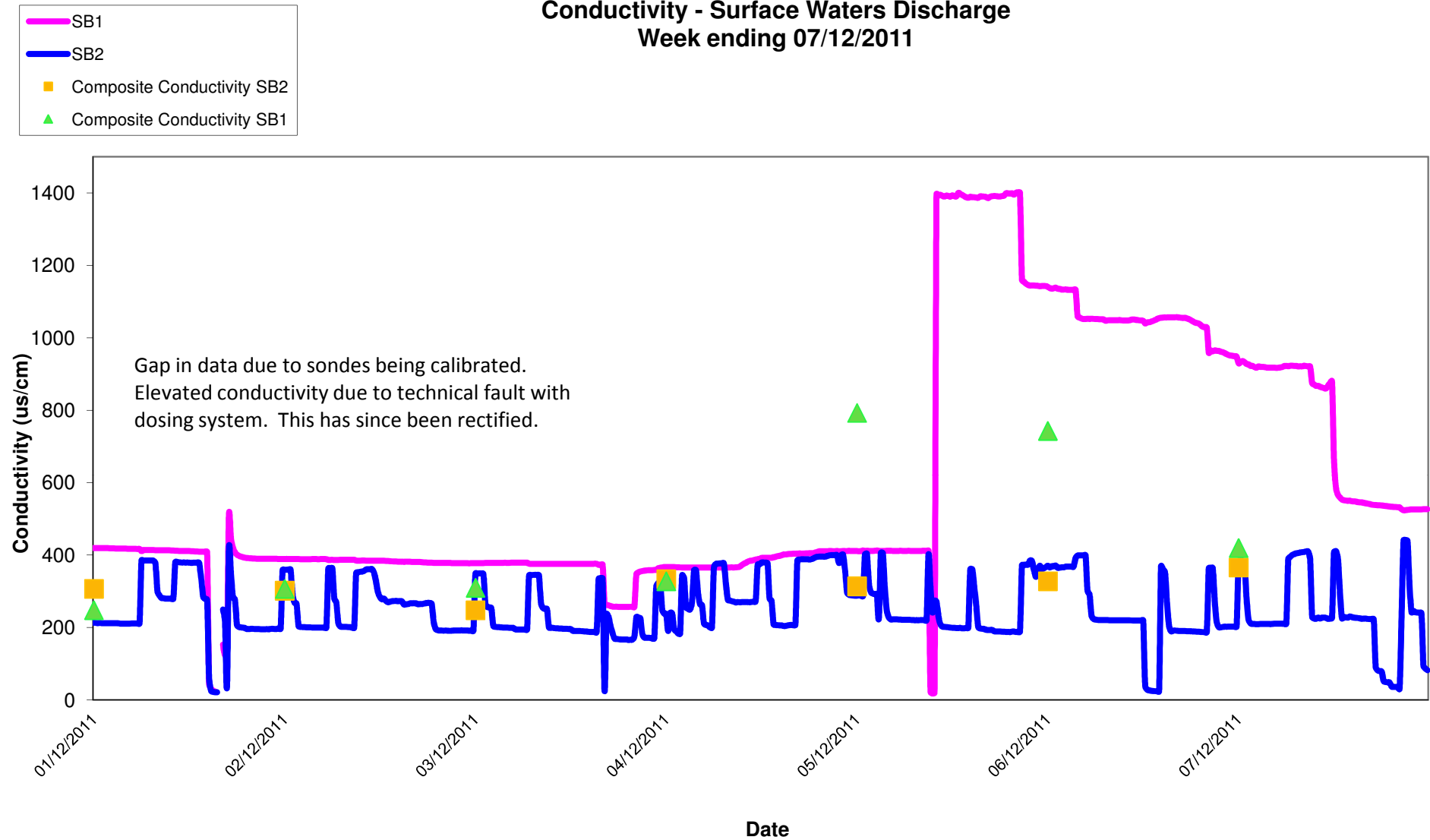
Flow



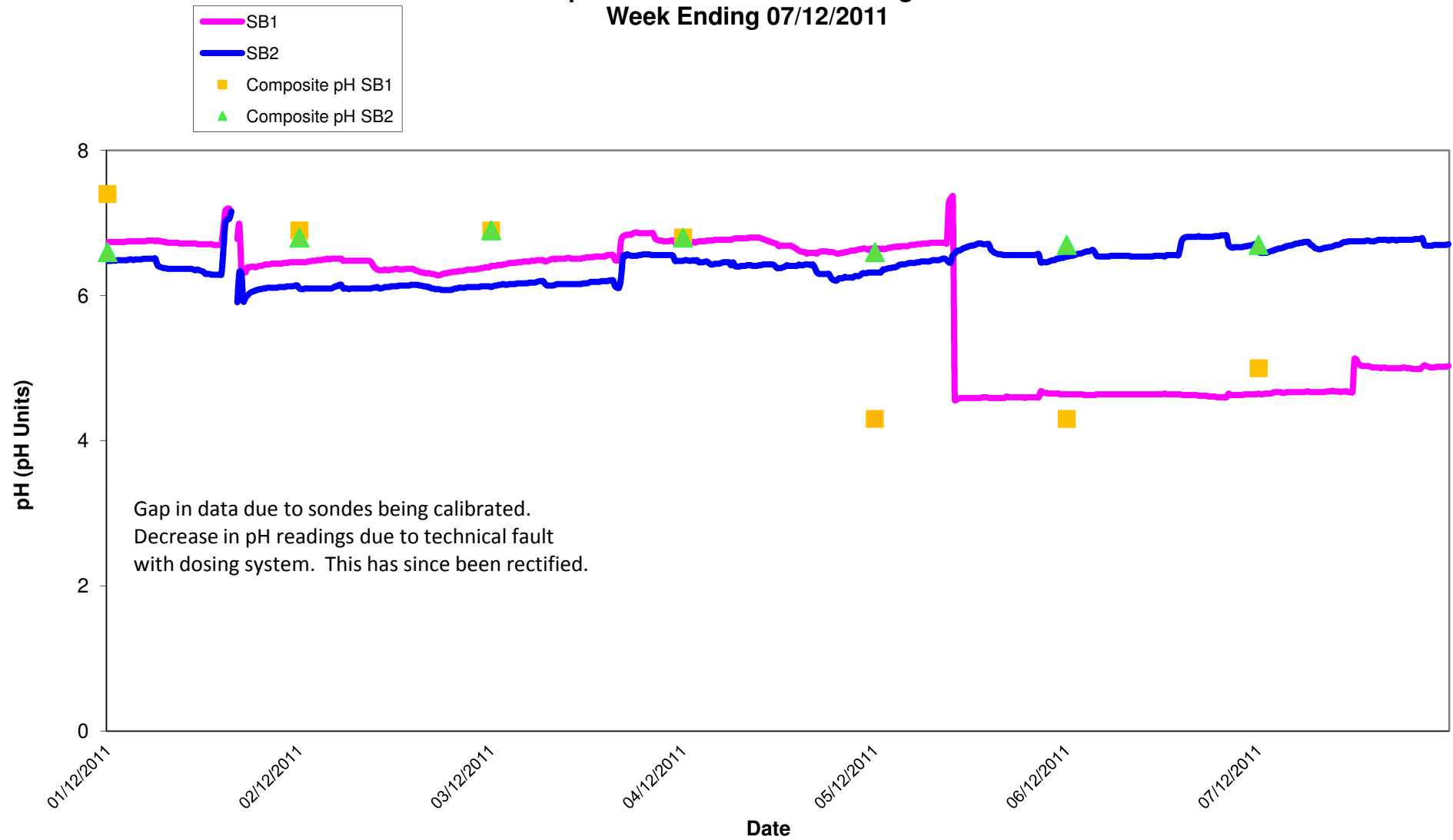
Temperature - Surface Waters Discharge Week ending 07/12/2011



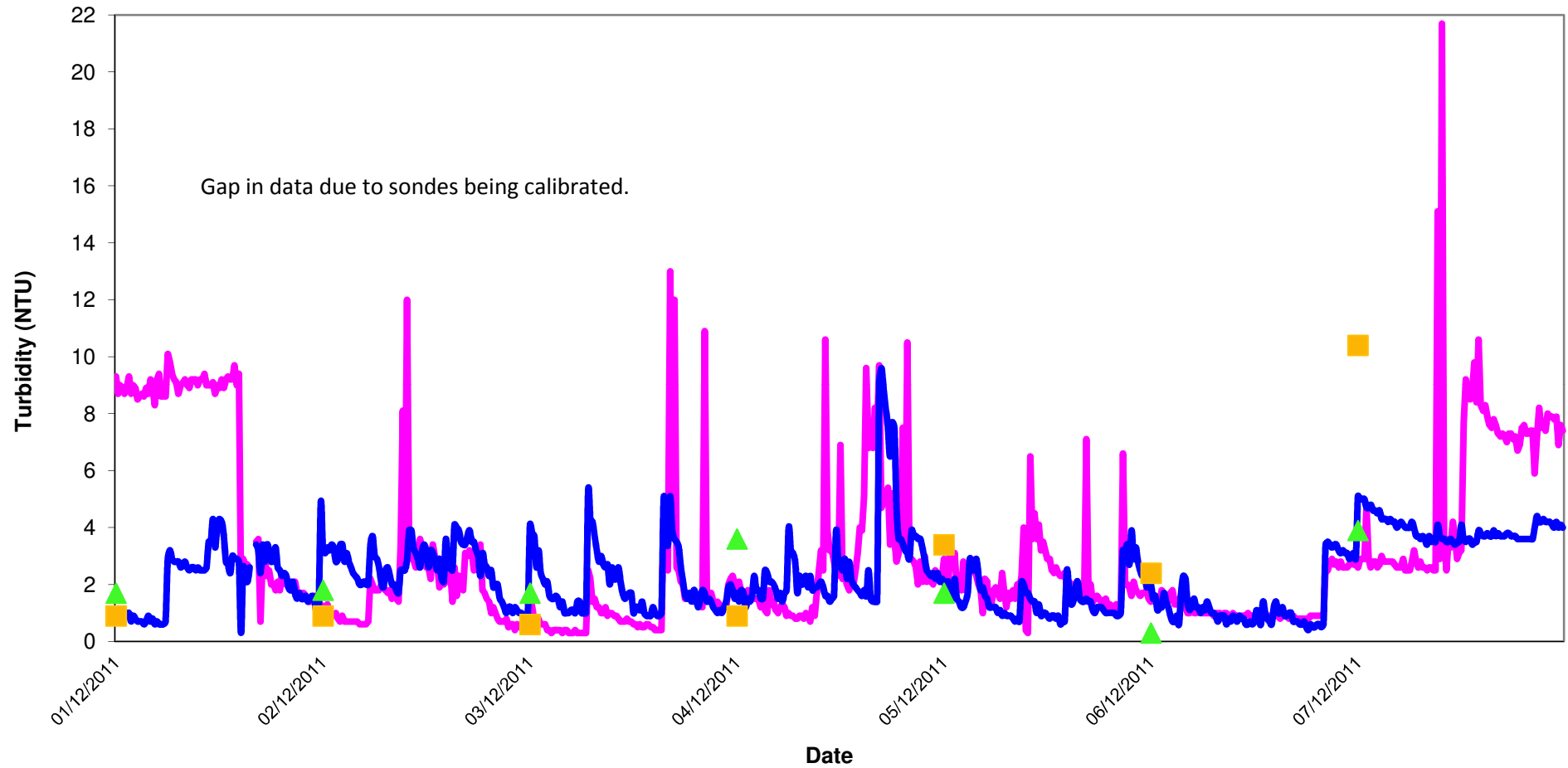
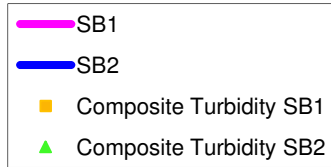
Conductivity - Surface Waters Discharge Week ending 07/12/2011



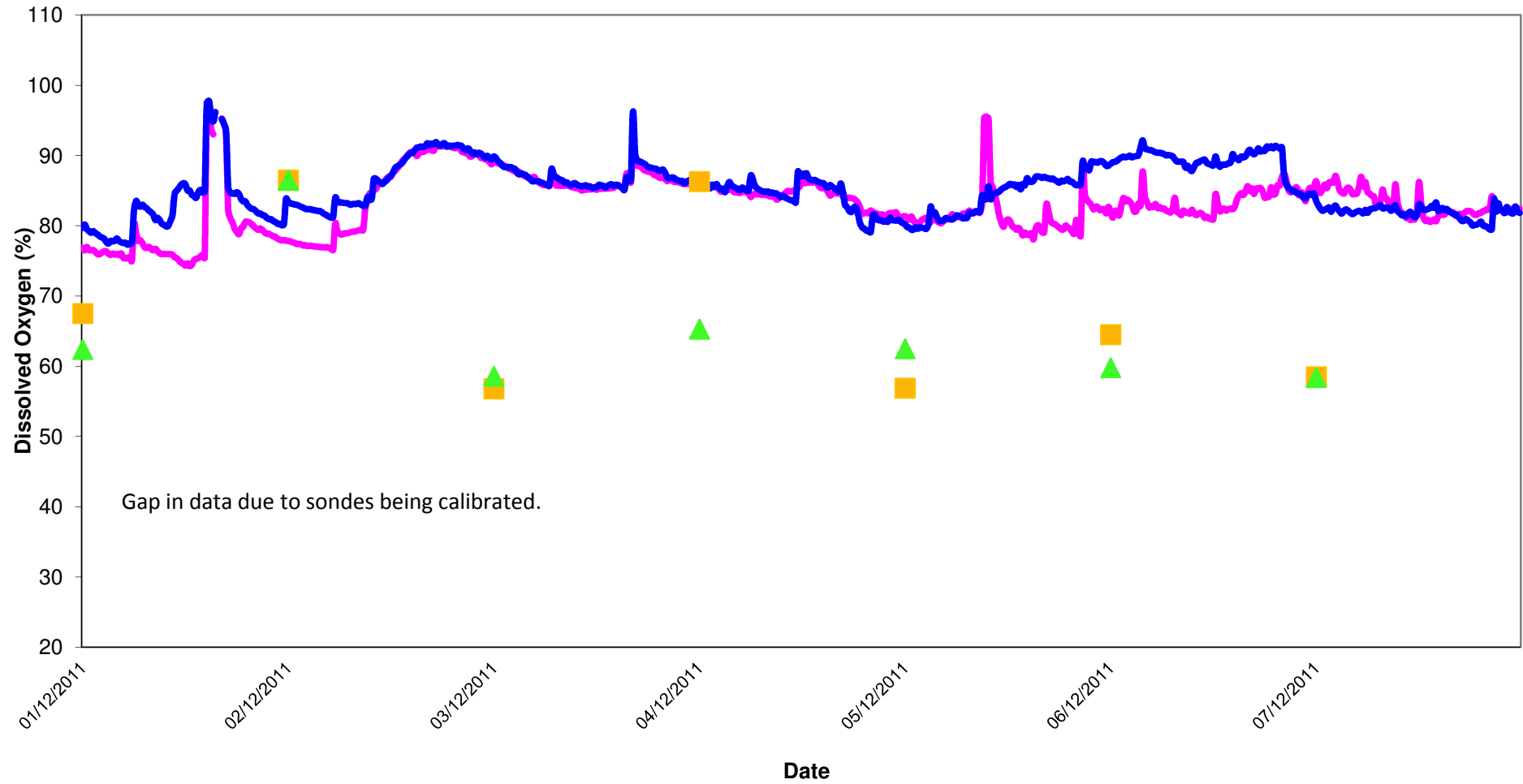
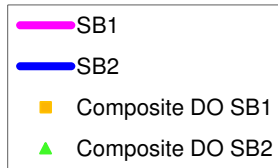
pH - Surface Waters Discharge Week Ending 07/12/2011



Turbidity - Surface Waters Discharge Week Ending 07/12/2011



Dissolved Oxygen - Surface Waters Discharge Week Ending 07/12/2011



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	01/12/2011	7.3	93.5	371.0	8.4	6.2
DL2	02/12/2011	7.0	89.5	277.0	19.6	6.0
DL2	05/12/2011	5.7	94.8	376.0	7.5	6.1
DL2	06/12/2011	6.3	71.0	188.6	8.5	7.2
DL2	07/12/2011	5.6	55.8	189.3	10.0	5.5
	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		