

## 1 Monitoring Data

### 1.1 Monitoring Equipment

Noise	Seven noise monitoring locations are currently being used – NSR1 & NSR2 (compliance monitoring points) and AN1, AN2, AN3, GN1 and RN1 (information purposes). The noise meters records in the 1/3 octave band.
Weather Station	The data used for this reporting period was taken from the Aughooose Site meteorological station. A meteorological station will be installed in Glengad upon erection of the site perimeter fence.
TSS	There are TSS meters (SB3 line 1 and SB3 line 2) on the each of discharges on the Siltbuster.
Sondes	The results are displayed graphically for dissolved oxygen, conductivity, pH, turbidity and temperature.
Discharge pipe flow	The results are displayed graphically.

### 1.2 Rainfall Data

Date	Rainfall mm
23/02/2012	1.6
24/02/2012	2.8
25/02/2012	0.0
26/02/2012	5.4
27/02/2012	3.0
28/02/2012	0.8
29/02/2012	0.2
Total	13.8

### 1.3 Summary

Environment	Comments
Weather	There was a total of 13.8mm of rainfall during the reporting period, with a temperature range of 7.2°C to 12.5°C.
Noise	There were no noise level exceedences during the reporting period
Surface Water	There were no identified surface water exceedences during the reporting period.

## 2 Environmental Exceedances / Incidents /

There were no identified environmental exceedances during this reporting period.

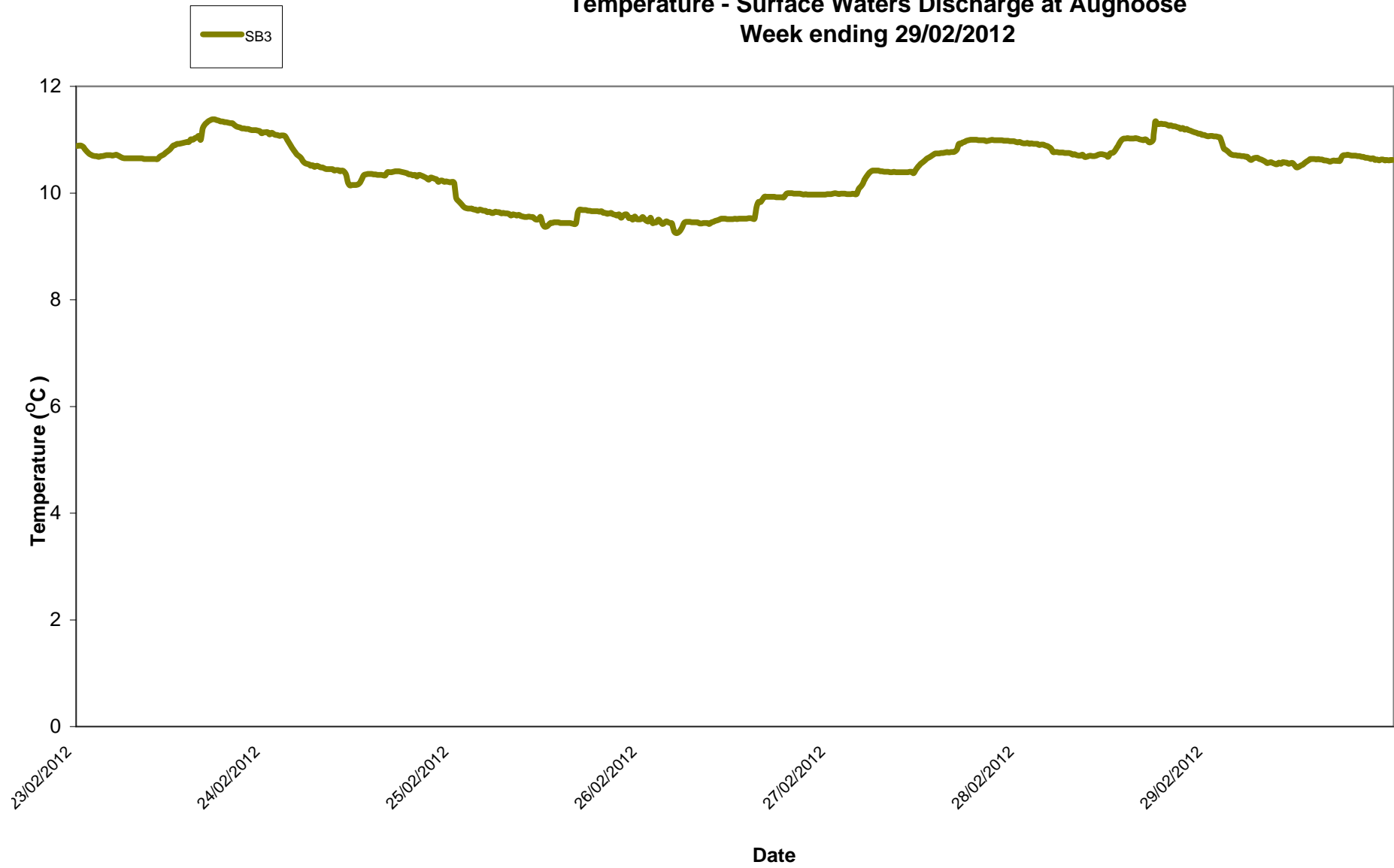
Day Time Noise Monitoring / Max Hourly or above 60dB L <sub>Aeq</sub> Record Sheet - Support monitoring data											
Determinant Results											
Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB				
					Speed (m/s)*	Direction (Degrees)	L <sub>Aeq</sub>	L <sub>Amax</sub>	L <sub>Amin</sub>		
AN1	10.3	12.5	23/02/2012 07:00	1:00:00	4.9	194.8	60.0	77.8	47.5		
			23/02/2012 08:00	1:00:00	7.1	195.3	74.5	91.3	51.2		
			23/02/2012 09:00	0:40:03	7.2	186.8	75.4	90.0	57.9		
			23/02/2012 10:00	00:54:25	7.3	203.8	68.4	94.5	53.7		
			23/02/2012 11:00	1:00:00	6.0	202.8	71.3	85.0	58.8		
			23/02/2012 12:00	1:00:00	8.4	195.0	70.2	87.7	54.8		
			23/02/2012 13:00	1:00:00	8.3	203.3	65.6	93.0	48.5		
			23/02/2012 14:00	1:00:00	7.9	204.8	65.3	86.0	48.8		
			23/02/2012 15:00	0:19:53	6.3	202.0	67.0	95.3	56.5		
			23/02/2012 16:00	1:00:00	5.4	210.3	64.8	86.4	52.5		
23/02/2012 17:00			1:00:00	3.9	236.8	62.0	80.2	51.0			
AN2			23/02/2012 13:00	1:00:00	8.3	203.3	62.5	80.4	46.6		
			23/02/2012 14:00	1:00:00	7.9	204.8	63.4	84.2	48.4		
			23/02/2012 15:00	1:00:00	6.3	202.0	61.7	78.5	46.3		
AN3			23/02/2012 17:00	1:00:00	3.9	236.8	61.9	76.8	41.7		
GN1			23/02/2012 13:00	1:00:00	8.3	203.3	54.2	75.4	34.3		
			23/02/2012 08:00	1:00:00	7.1	195.3	68.4	90.0	49.8		
			23/02/2012 09:00	1:00:00	7.2	186.8	69.1	94.2	52.7		
			23/02/2012 10:00	1:00:00	7.3	203.8	68.9	87.8	47.5		
			23/02/2012 11:00	1:00:00	6.0	202.8	70.4	89.2	48.4		
			23/02/2012 12:00	1:00:00	8.4	195.0	72.1	90.5	48.8		
			23/02/2012 13:00	1:00:00	8.3	203.3	70.4	86.2	51.4		
			23/02/2012 14:00	1:00:00	7.9	204.8	67.0	82.4	51.4		
RN1	23/02/2012 15:00	1:00:00	6.3	202.0	67.0	83.0	51.3				
	23/02/2012 16:00	1:00:00	5.4	210.3	62.4	86.5	45.5				
	23/02/2012 13:00	1:00:00	8.3	203.3	58.2	72.1	49.3				
	24/02/2012 08:00	1:00:00	2.6	274.8	62.2	82.6	52.1				
AN1	6.8	10.1	24/02/2012 09:00	1:00:00	2.3	296.3	63.6	89.3	50.3		
			24/02/2012 10:00	1:00:00	2.4	283.0	62.4	87.6	50.7		
			24/02/2012 11:00	1:00:00	3.0	285.0	64.7	82.8	56.1		
			24/02/2012 12:00	1:00:00	2.4	258.3	69.5	89.1	55.3		
			24/02/2012 13:00	1:00:00	2.4	285.3	66.2	90.3	44.7		
			24/02/2012 14:00	1:00:00	2.0	293.0	63.9	86.9	50.7		
			24/02/2012 15:00	1:00:00	1.8	280.8	61.9	85.9	51.3		
			24/02/2012 16:00	1:00:00	1.6	264.5	61.8	77.1	45.4		
			24/02/2012 16:00	1:00:00	1.6	264.5	60.9	77.7	36.9		
			24/02/2012 08:00	1:00:00	2.6	274.8	43.5	32.5	59.9		
24/02/2012 12:00			1:00:00	2.4	258.3	52.9	38.6	93.5			
24/02/2012 16:00			1:00:00	1.6	264.5	58.6	22.5	83.5			
AN1			25/02/2012 11:00	1:00:00	3.1	224.3	56.1	81.4	47.5		
AN2			25/02/2012 11:00	1:00:00	3.1	224.3	49.5	73.2	36.9		
AN3			25/02/2012 13:00	1:00:00	3.6	237.3	43.3	30.6	62.2		
GN1	25/02/2012 16:00	1:00:00	3.5	230.8	55.3	40.6	88.7				
RN1	25/02/2012 07:00	1:00:00	1.7	199.0	55.2	26.6	79.2				
AN1	10.4	11.6	27/02/2012 08:00	1:00:00	6.9	199.0	62.3	91.8	48.9		
			27/02/2012 09:00	1:00:00	6.0	189.0	72.3	91.2	56.3		
			27/02/2012 10:00	1:00:00	8.0	204.0	73.1	92.2	55.0		
			27/02/2012 11:00	1:00:00	6.2	201.3	75.8	97.3	56.3		
			27/02/2012 12:00	1:00:00	5.7	200.8	67.8	91.1	58.5		
			27/02/2012 13:00	1:00:00	5.3	200.3	70.3	91.2	57.8		
			27/02/2012 14:00	1:00:00	6.8	198.0	65.9	89.3	53.1		
			27/02/2012 15:00	1:00:00	6.0	191.8	64.6	90.5	52.0		
			27/02/2012 16:00	1:00:00	5.1	193.3	68.2	89.1	56.8		
			27/02/2012 17:00	1:00:00	4.9	197.3	68.5	89.6	57.4		
27/02/2012 18:00			1:00:00	4.9	198.8	66.6	91.6	52.0			
AN2			27/02/2012 16:00	1:00:00	5.1	193.3	58.3	78.4	37.9		
AN3			27/02/2012 10:00	1:00:00	8.0	204.0	49.5	64.0	32.5		
GN1			27/02/2012 08:00	1:00:00	6.9	199.0	63.6	78.8	46.3		
			27/02/2012 09:00	1:00:00	6.0	189.0	64.3	85.4	44.7		
			27/02/2012 10:00	1:00:00	8.0	204.0	63.9	80.4	46.4		
			27/02/2012 11:00	1:00:00	6.2	201.3	64.0	78.0	49.3		
			27/02/2012 12:00	1:00:00	5.7	200.8	63.1	77.2	49.6		
			27/02/2012 13:00	1:00:00	5.3	200.3	63.0	79.7	46.4		
			27/02/2012 14:00	1:00:00	6.8	198.0	61.1	76.7	44.9		
			27/02/2012 07:00	1:00:00	6.2	214.8	59.2	81.3	47.0		
AN1			9.3	12.1	28/02/2012 08:00	1:00:00			67.4	96.1	54.4
	28/02/2012 09:00	1:00:00			3.1	214.7	69.0	87.3	56.1		
	28/02/2012 10:00	1:00:00			3.3	207.5	70.2	92.9	54.8		
	28/02/2012 11:00	1:00:00			3.2	207.5	66.4	94.4	56.5		
	28/02/2012 12:00	1:00:00			4.1	205.0	76.2	91.2	57.1		
	28/02/2012 13:00	1:00:00			4.0	207.3	72.4	89.7	52.0		
	28/02/2012 14:00	1:00:00			4.7	195.5	67.7	89.2	52.7		
	28/02/2012 15:00	1:00:00			6.4	205.3	68.2	90.1	59.5		
	28/02/2012 16:00	1:00:00			3.1	193.0	67.3	89.2	56.7		
	28/02/2012 17:00	1:00:00			3.8	196.5	68.3	92.3	54.9		
AN2	28/02/2012 17:00	1:00:00			3.8	196.5	61.2	76.7	38.0		
AN3	28/02/2012 13:00	1:00:00			4.0	207.3	53.4	66.0	29.5		
GN1	28/02/2012 14:00	1:00:00			4.7	195.5	56.9	76.4	41.3		
RN1	28/02/2012 07:00	1:00:00			54.1	77.9	30.1				
AN1	9.0	11.0	29/02/2012 07:00	1:00:00	2.1	164.8	60.1	93.1	48.8		
			29/02/2012 08:00	1:00:00	2.0	180.5	70.6	89.8	58.2		
			29/02/2012 09:00	1:00:00	4.1	175.5	74.5	97.5	53.6		
			29/02/2012 10:00	1:00:00	5.1	193.3	67.7	96.2	54.0		
			29/02/2012 11:00	1:00:00	5.1	182.3	68.5	87.9	57.4		
			29/02/2012 12:00	1:00:00	3.9	173.5	73.4	97.1	60.9		
			29/02/2012 13:00	1:00:00	5.0	196.5	74.9	99.1	58.8		
			29/02/2012 14:00	1:00:00	2.9	149.7	75.4	98.8	54.4		
			29/02/2012 15:00	1:00:00	2.6	167.0	75.7	98.1	56.3		
			29/02/2012 16:00	1:00:00	3.6	150.7	65.7	86.9	55.2		
29/02/2012 17:00			1:00:00	1.6	191.5	67.1	87.1	54.7			
AN2			29/02/2012 10:00	1:00:00	5.1	193.3	57.9	77.8	37.7		
AN3			29/02/2012 12:00	1:00:00	3.9	173.5	43.8	62.0	29.5		
GN1			29/02/2012 09:00	1:00:00	4.1	175.5	52.3	70.0	37.5		
RN1			29/02/2012 18:00	1:00:00	3.4	168.2	55.3	78.0	38.8		
* 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 Laeq(1hr) for maximum daily values or values over 60dB for each day of monitoring											
AN1		AN2		AN3		GN1		RN1			

**Day Time Noise Monitoring / Max Hourly or above 60dB L<sub>aen</sub> Record Sheet - Compliance monitoring locations**

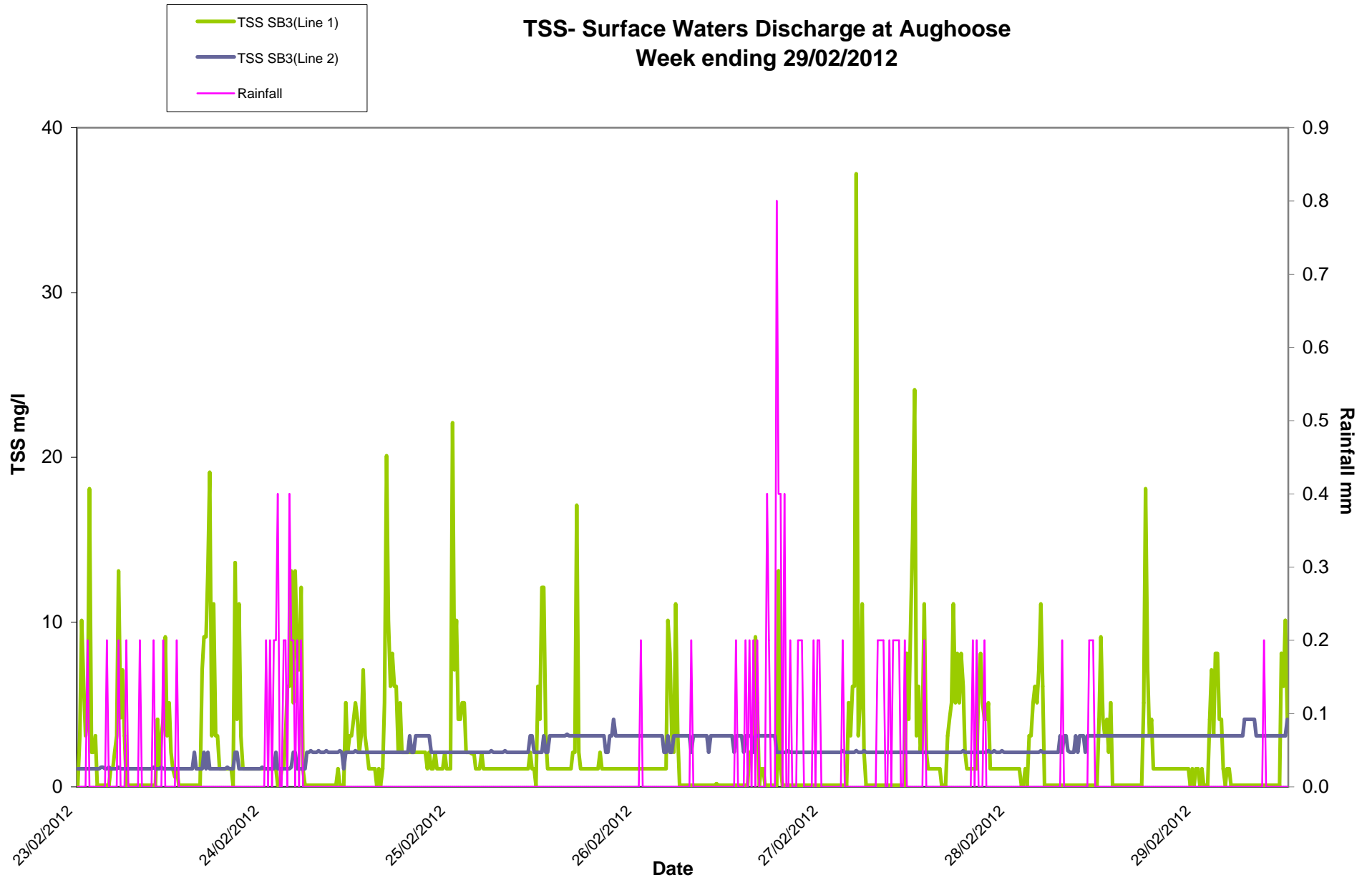
## Determinant Results

Location	Air Temp. (Min)	Air Temp. (Max)	Start Date and Time	Duration	Wind		Results dB			*Comments
					Speed (m/s)*	Direction (Degrees)	L <sub>Aeq</sub>	L <sub>Amax</sub>	L <sub>Amin</sub>	
NSR1	10.3	12.5	23/02/2012 8:00	1:00:00	7.1	195.3	62.2	78.5	38.6	Elevated noise levels due to high wind speeds
			23/02/2012 9:00	1:00:00	7.2	186.8	63.4	77.5	41.9	
			23/02/2012 10:00	1:00:00	7.3	203.8	64.3	80.5	42.5	
			23/02/2012 11:00	1:00:00	6.0	202.8	61.7	79.0	41.8	
			23/02/2012 12:00	1:00:00	8.4	195.0	66.8	84.8	43.5	
			23/02/2012 13:00	1:00:00	8.3	203.3	68.2	83.4	46.9	
			23/02/2012 14:00	1:00:00	7.9	204.8	68.1	82.9	47.0	
			23/02/2012 15:00	0:46:46	6.3	202.0	66.3	81.6	44.1	
			23/02/2012 16:00	1:00:00	5.4	210.3	60.3	76.3	39.6	
NSR2	10.3	12.5	23/02/2012 8:00	1:00:00	7.1	195.3	64.7	82.6	48.3	
			23/02/2012 9:00	1:00:00	7.2	186.8	64.0	85.1	50.0	
			23/02/2012 10:00	1:00:00	7.3	203.8	63.3	83.9	50.5	
			23/02/2012 11:00	1:00:00	6.0	202.8	64.7	91.8	49.9	
			23/02/2012 12:00	1:00:00	8.4	195.0	65.8	86.0	49.0	Elevated noise levels due to high wind speeds
			23/02/2012 13:00	1:00:00	8.3	203.3	66.7	85.4	51.1	
			23/02/2012 14:00	0:06:04	7.9	204.8	62.8	78.0	52.0	
			23/02/2012 15:00	1:00:00	6.3	202.0	61.4	79.2	51.5	
			23/02/2012 16:00	1:00:00	5.4	210.3	65.8	92.5	49.6	Elevated noise levels due to high wind speeds
NSR1	6.8	10.1	24/02/2012 15:00	1:00:00	1.8	280.8	51.4	75.5	29.6	
NSR2			24/02/2012 17:00	1:00:00	1.2	249.5	63.6	88.9	49.4	
NSR1	7.2	10.0	25/02/2012 15:00	1:00:00	2.0	235.8	55.8	94.4	28.7	
NSR2			25/02/2012 9:00	1:00:00	1.7	221.3	57.9	77.1	47.4	
NSR1	10.4	11.6	27/02/2012 7:00	1:00:00	6.2	214.8	62.5	76.7	43.2	
			27/02/2012 8:00	1:00:00	6.9	199.0	62.0	79.8	41.3	
			27/02/2012 9:00	1:00:00	6.0	189.0	61.7	77.1	42.7	
			27/02/2012 10:00	1:00:00	8.0	204.0	61.3	78.2	42.8	
NSR2			27/02/2012 8:00	1:00:00	6.9	199.0	60.1	91.0	47.6	
			27/02/2012 9:00	1:00:00	6.0	189.0	61.2	82.8	48.5	
			27/02/2012 10:00	1:00:00	8.0	204.0	60.8	78.6	49.1	
			27/02/2012 11:00	1:00:00	6.2	201.3	61.0	81.7	50.1	
	27/02/2012 12:00	1:00:00	5.7	200.8	63.8	83.5	50.4			
			27/02/2012 13:00	1:00:00	5.3	200.3	62.2	77.3	49.3	
NSR1	9.3	12.1	28/02/2012 15:00	1:00:00	6.4	205.3	55.1	75.1	35.2	
NSR2			28/02/2012 16:00	1:00:00	3.1	193.0	55.7	79.9	44.0	
NSR1	9.0	11.0	29/02/2012 13:00	1:00:00	5.0	196.5	56.9	73.9	38.2	
NSR2			29/02/2012 17:00	1:00:00	1.6	191.5	60.5	90.1	43.4	
* 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))										
09:00										
NSR1										
NSR2										

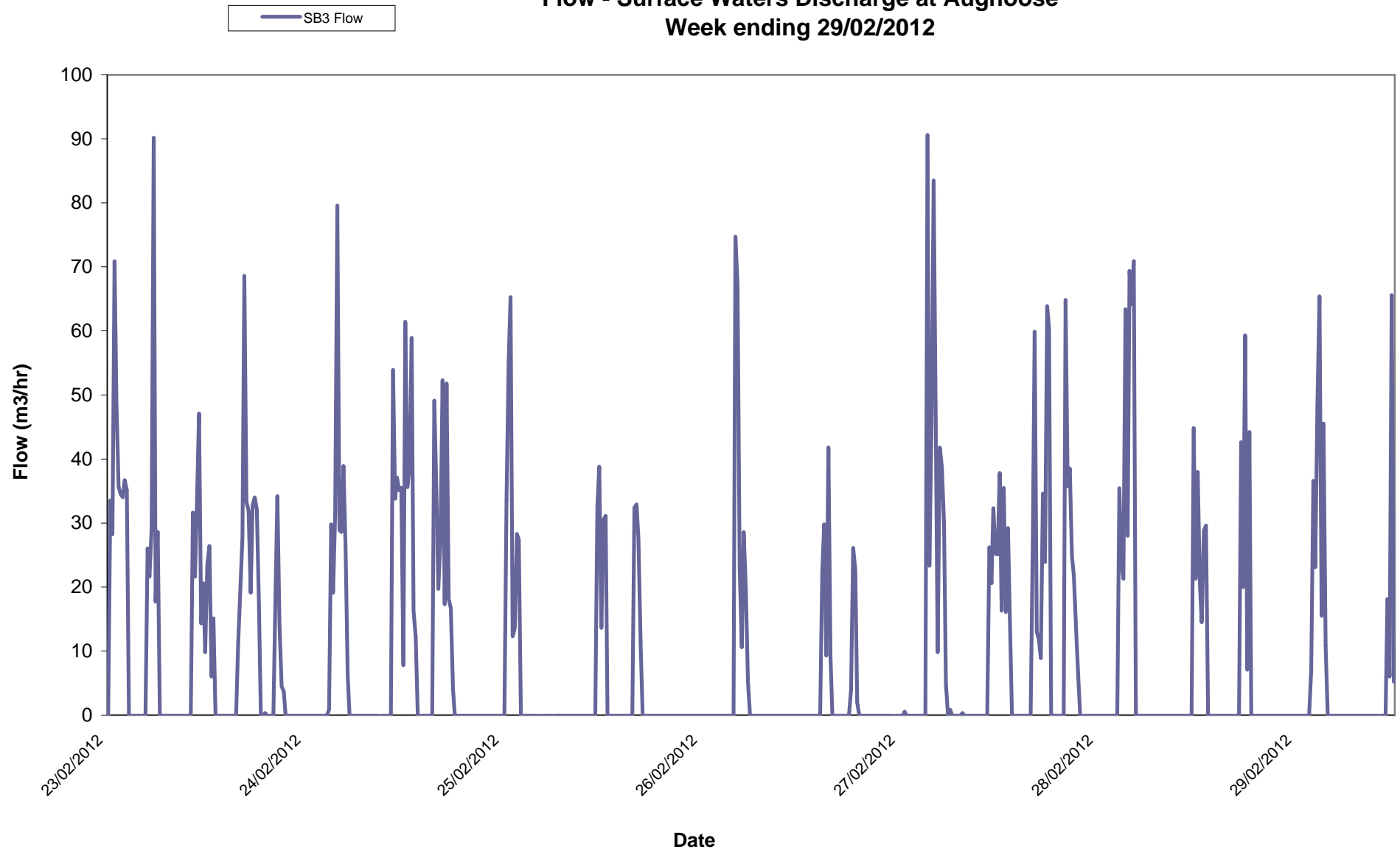
Temperature - Surface Waters Discharge at Aughooose  
Week ending 29/02/2012



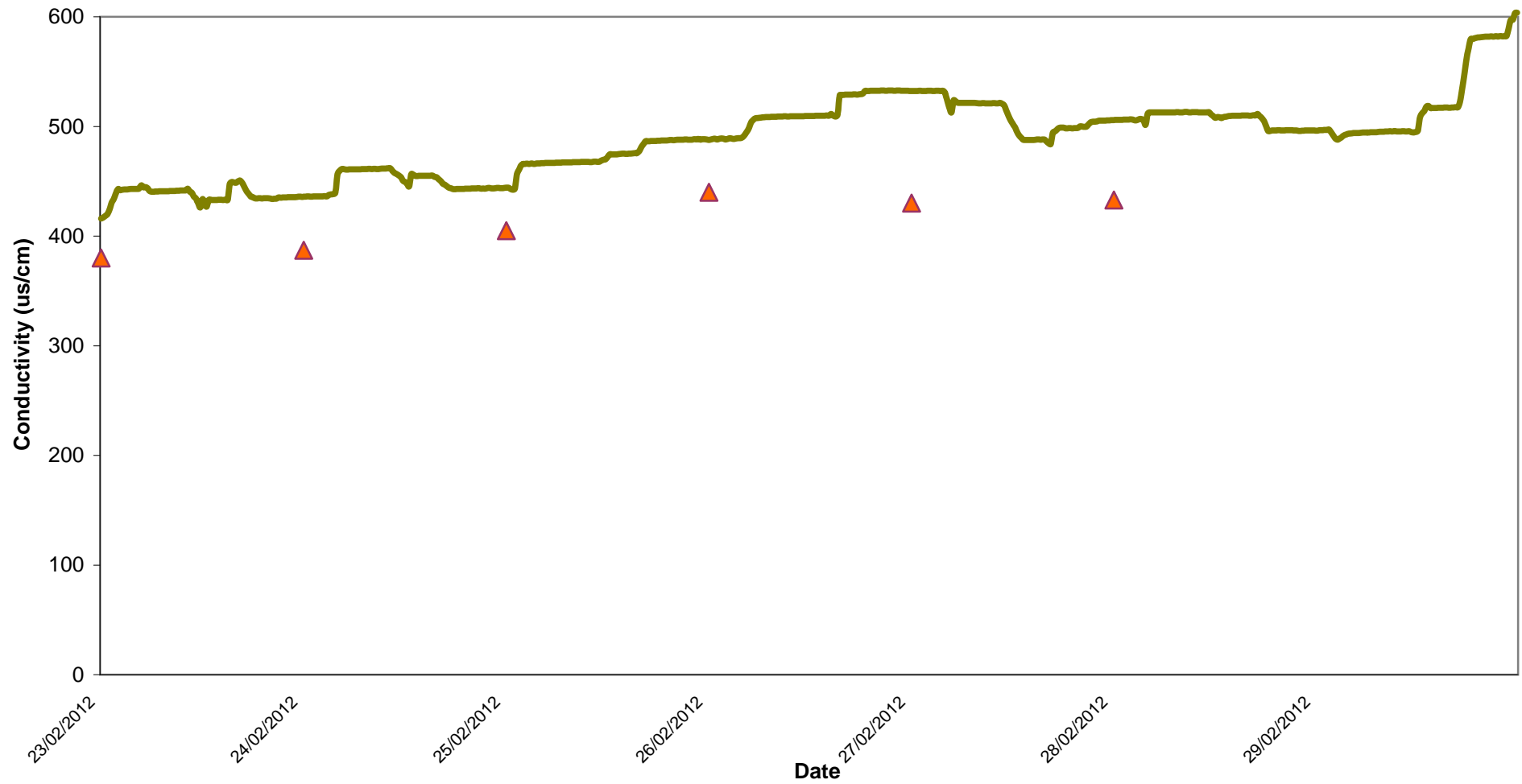
# TSS- Surface Waters Discharge at Aughooose Week ending 29/02/2012

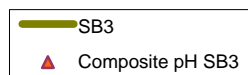


**Flow - Surface Waters Discharge at Aughooose**  
**Week ending 29/02/2012**

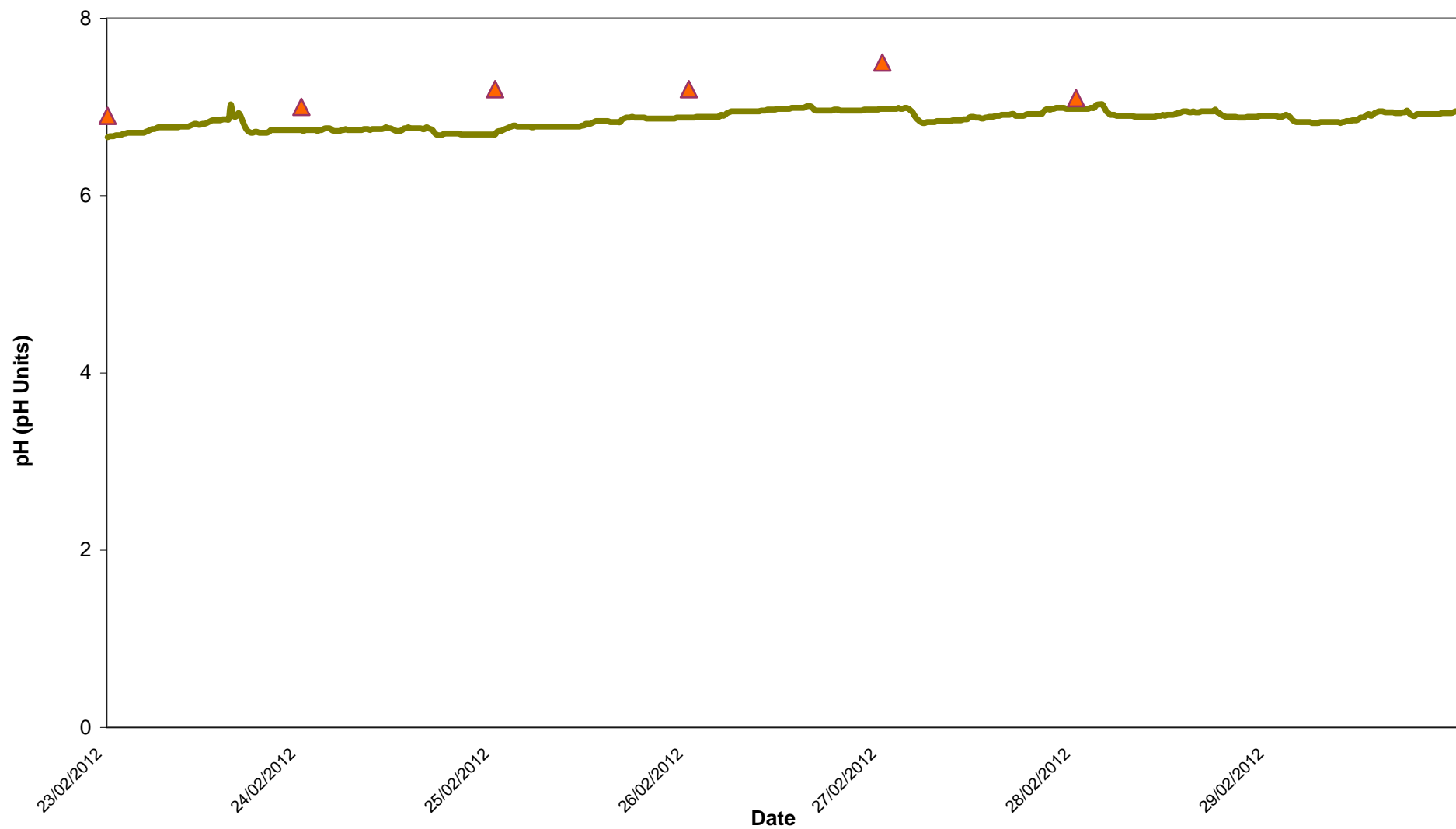


# Conductivity - Surface Waters Discharge at Aughooose Week ending 29/02/2012

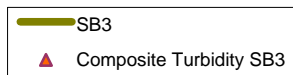




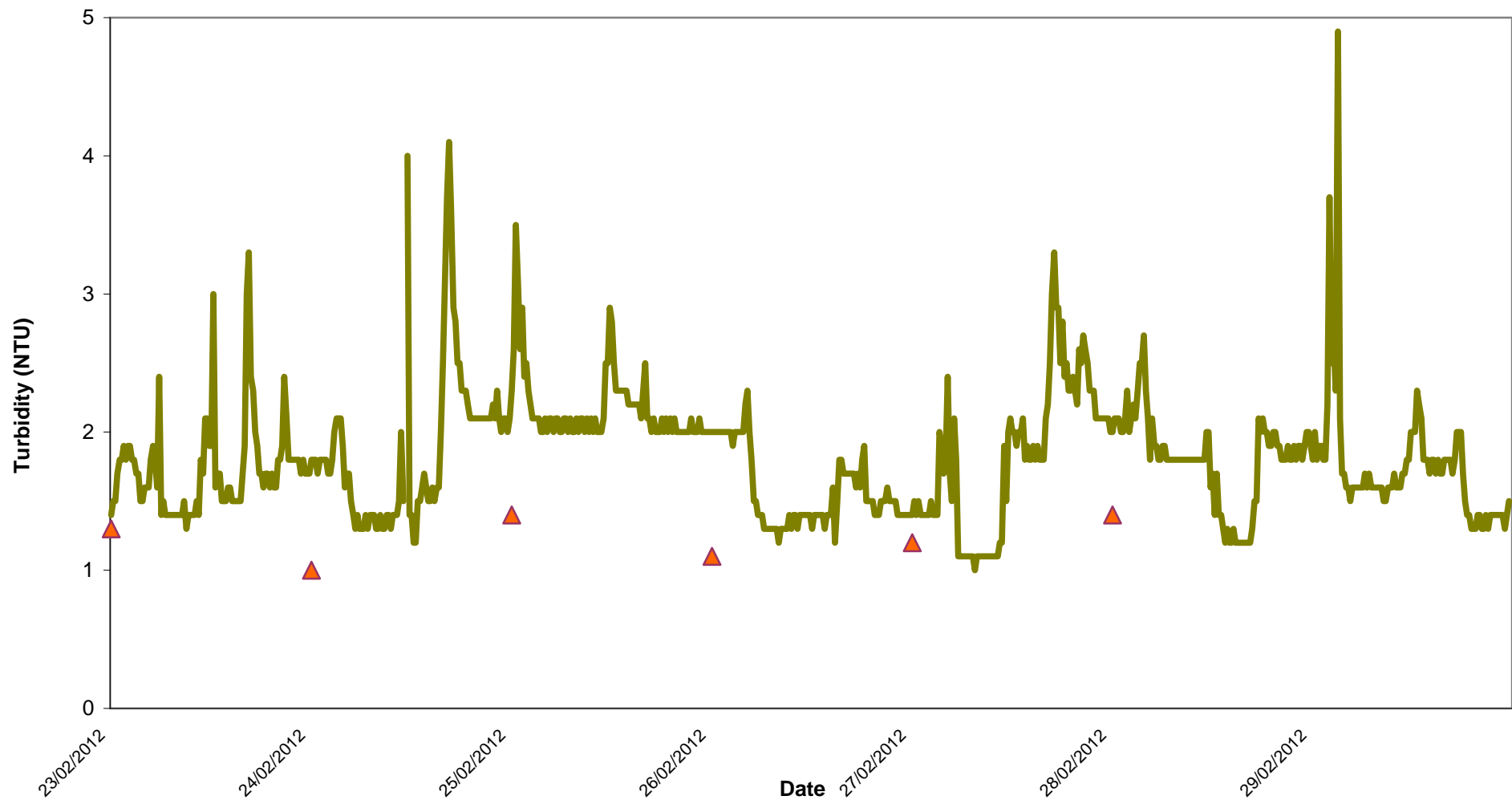
# pH - Surface Waters Discharge at Aughooose Week Ending 29/02/2012



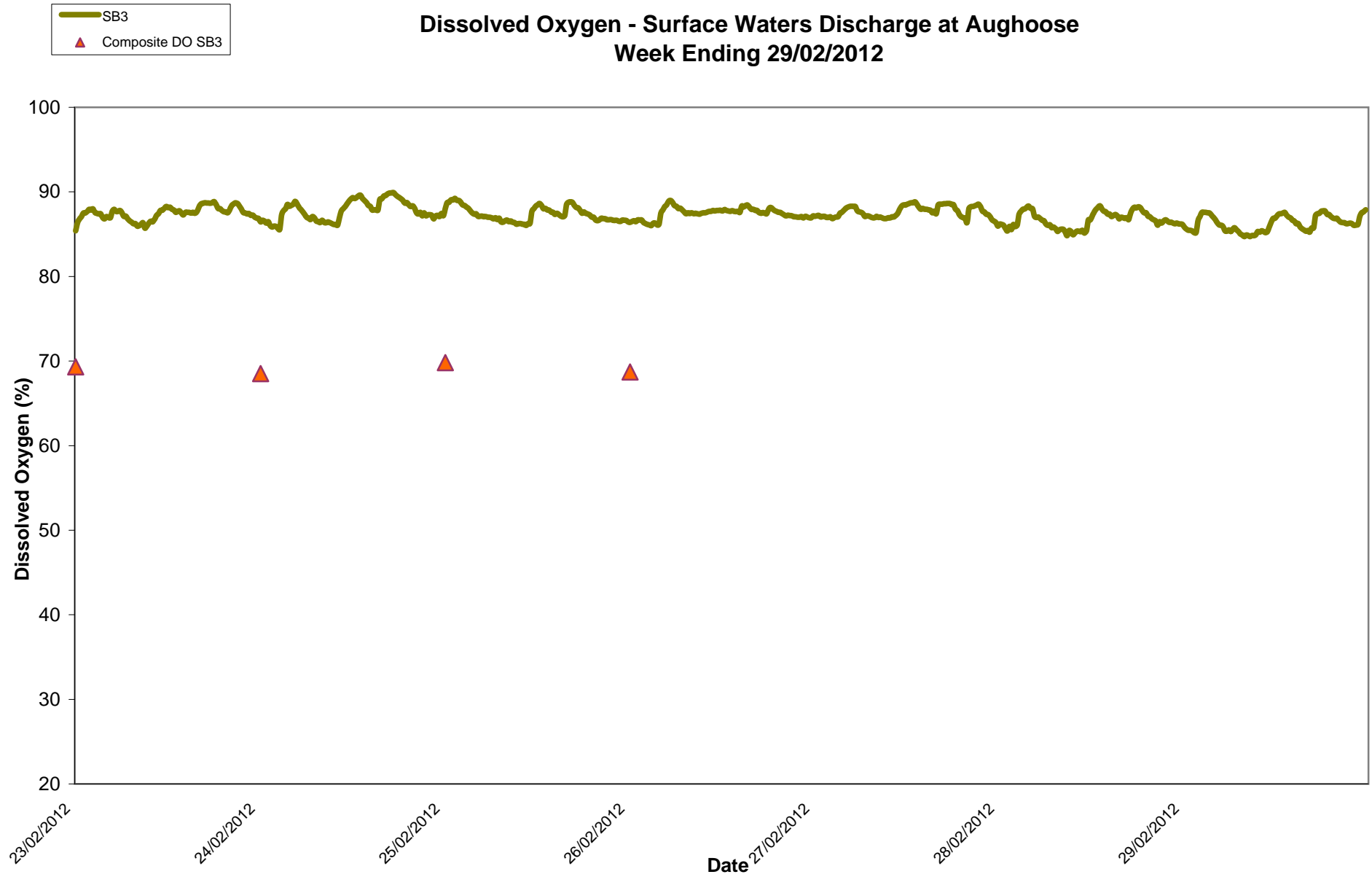




# Turbidity - Surface Waters Discharge at Aughooose Week Ending 29/02/2012



# Dissolved Oxygen - Surface Waters Discharge at Aughooose Week Ending 29/02/2012



## **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	23/02/2012	11.2	92.2	430	5.3	6.7
DL2	24/02/2012	10	53.3	335	2.3	6.7
DL2	27/02/2012	11.6	88.6	503	11.7	7.1
DL2	28/02/2012	11.2	42	379	13.0	7.0
DL2	29/02/2012	10.1	37.6	415	1.3	6.8
	= Indicative Only					
< LOD	= Below Limit of Detection		> LOD	= Above Limit of Detection		