

Final Environmental Report	Period Ending: Wed. 5 th March 2008
Compiled By: Siobhan Quinn /Aoife Reynolds	
Approved By: Tony Doyle	

1 Monitoring Data

1.1 Monitoring Equipment

Axonics	– Axonics plant operated as required during the reporting period.
PO ₄	<ul style="list-style-type: none"> – Due to technical problems the PO₄ analyser was off line for the majority of the reporting period. – Partech technician is due on site on Monday the 10th of March. – The composite sampler is in place to cover any shortfalls in the PO₄ analyser.
TSS	<ul style="list-style-type: none"> – The TSS analyser was operational during the reporting period. – The composite sampler is in place to cover any shortfalls in the TSS analyser.
Composite	– The composite sampler was operational during the reporting period.
Noise	<ul style="list-style-type: none"> – There is a single noise monitoring location currently being used – N1. – The other location is visible from off-site and because of current protestor action it cannot be guaranteed that the equipment remains undisturbed.
Vibration	<ul style="list-style-type: none"> – There is a single vibration monitoring location currently being used – V1. – The other location is visible from off-site and because of current protestor action it cannot be guaranteed that the equipment remains undisturbed.
Sondes	<ul style="list-style-type: none"> – The results are displayed graphically. <ul style="list-style-type: none"> ○ Any unusual values are explained on the relevant graph.
Weather Station	– The data used for this reporting period was taken from the on-site meteorological station.
Weirs	– Data displayed in the enclosed report.

1.2 Rainfall Data

21/02/08	2.4	28/02/08	4.6
22/02/08	5.6	29/02/08	20.8
23/02/08	9.8	01/03/08	5.2
24/02/08	5.0	02/03/08	4.6
25/02/08	13.6	03/03/08	9.0
26/02/08	3.2	04/03/08	0.6
27/02/08	2.2	05/03/08	0.8
Total Rainfall 87.4			

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1.3 Summary

Environment	Comments
Surface Water	The aluminium exceedance from the previous reporting period remains open. Also there was a short term total suspended solid exceedance during the reporting period. See Section 2 below.
Groundwater	The groundwater data (Sonde) is within anticipated ranges. Groundwater monitoring was carried out during the reporting period.
Dust	Awaiting results.
Weather	There was a total of 87.4mm of rainfall during the reporting period, with a temperature range of 0.4 to 11.7°C
Noise	No noise exceedance was recorded during the reporting period, based on the available results.
Vibration	No vibration exceedances were recorded during the reporting period, based on the available results

Note: All laboratory data generated on site should be considered indicative only.

2 Environmental Exceedences / Incidents / Complaints

Date	25 th February
Location	SP1
Nature of Incident	There was a storm event on the 25 th of February which resulted in a total suspended solid exceedance at SP1. However, there was a downward trend after the initial peak and values returned to within the limit in a timely manner.
Actions Taken	<ol style="list-style-type: none"> 1. Ongoing surveillance of site drainage outside the main footprint area 2. Close monitoring of total suspended solid results. 3. Improvement in terminal footprint drainage to prevent the build up of water during storm rainfall events.
Category	Environmental Exceedance
Status	Closed

Date	February 2008
Location	Dust Monitoring Locations
Nature of Incident	<p>The four dust deposition samples which were sent to our external laboratory for testing in February for the period 23rd January 2008 to the 25th February 2008 were returned with the following results;</p> <p>D1: 471 mg/m2/day D2: 426 mg/m2/day D3: 765 mg/m2/day</p>

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	D4: 398 mg/m ² /day All of these results are in exceedance of the agreed dust deposition limit of 350 mg/m ² /day.
Actions Taken	<ol style="list-style-type: none"> 1. The current means of sampling and analysing for dust deposition will be independently assessed by an air quality specialist and the recommendations will be reviewed for implementation. 2. Duplicate dust deposition sampling will be carried out adjacent to the existing four monitoring locations for comparative purposes. 3. Dust deposition pots will continue to be visually inspected prior to dispatch to the external laboratory for analysis. 4. Dust control measures, i.e. sweep trucks, bowsters etc. will continue to be applied throughout the construction site.
Category	Environmental Exceedance
Status	Open

Date	26 th February & 3 rd March 2008
Location	SP1
Nature of Incident	A value of 204µg/l was recorded for total aluminium on the 26 th of February 2008 and on the 3 rd March 2008 294µg/l. These values exceed the site discharge limit of 200µg/l. These exceedances were caused by flooding and washout during rainfall at the site.
Actions Taken	<ol style="list-style-type: none"> 1. Ongoing surveillance and maintenance of site drainage outside the main footprint area 2. Close monitoring of Total Aluminium will be carried out at SP1. 3. Reducing the extent of open drainage and un-surfaced areas outside the footprint area by additional piping and road surface works as feasible. 4. Storage and pumping back to Axonics as much of the footprint waters as possible. 5. Investigation of further means to improve the drainage within the footprint area.
Category	Environmental Exceedance
Status	Open

Surface Water Monitoring Record Sheet

Conducted by										Approved by							
Name:										Name:							
Signed										Signed							
Determinant Results																	
	Date	Cond. µS/cm	Temp °C	Turbidity NTU	DO % Sat	pH pH units	TSS mg l ⁻¹	Ortho-phosphate as P µg l ⁻¹	Nitrate as N mg l ⁻¹	Nitrate as NO ₃ mg l ⁻¹	Total Phosphorus as P mg l ⁻¹	Ammonia as NH ₃ -N mg l ⁻¹	Nitrite as NO ₂ mg l ⁻¹	Aluminium (dissolved) µg l ⁻¹	Aluminium (total) µg l ⁻¹	Phosphate as PO ₄ -P mg l ⁻¹	TDS mg l ⁻¹
Action Limits		400		150		<3.5 or >7.5	25	40	1.5	4.0		0.2	0.025	100	135		
Target Limits		500		200		<3 or >8	35	70	2.6	6.0		0.5	0.05	150	200		
Settlement Pond Monitoring																	
SP1	21/02/2008	317	7.8	8.2	103.1	6.8			0.2			>LOD		40	268	0.070	218
SP1	22/02/2008	224	7.8	6.4	98.8	7.1			<LOD			0.020		23	160	0.130	143
SP1	25/02/2008	301	7.7	12.0	100.9	7.2			<LOD			<LOD		32	187	0.140	205
SP1	26/02/2008	313	7.5	19.6	103.0	7.4			<LOD			0.040		18	219	0.020	204
SP1	27/02/2008	320	6.8	35.1	104.0	7.5			<LOD			<LOD		47	286	0.090	205
SP1	28/02/2008	315	7.4	18.1	99.8	7.2			0.2			<LOD		31	166	0.040	202
SP1	29/02/2008	213	8.1	63.0	96.4	7.4			<LOD			0.710		64	658	0.120	141
SP1	03/03/2008	269	6.3	13.8	99.8	6.7			0.5			0.230		41	162	0.240	182
SP1	04/03/2008	300	8.8	11.0	96.7	7.2			0.3			0.980		30	230	0.080	199
SP1	05/03/2008	313	7.5	19.0	99.5	7.2			<LOD			0.240		46	183	0.030	214
SP3	21/02/2008	364	10.3	9.4	102.2	6.9			0.9			1.630		50		0.040	241
SP3	22/02/2008	350	9.2	4.8	97.7	7.0			0.4			0.780		31		0.070	232
SP3	25/02/2008	273	8.2	66.6	103.4	7.3			<LOD			<LOD		75		0.020	183
SP3	26/02/2008	356	9.4	6.7	106.6	7.2			0.4			0.070		60		<LOD	221
SP3	27/02/2008	367	7.8	10.3	106.9	7.2			0.6			0.150		41		0.040	237
SP3	28/02/2008	363	8.6	9.9	100.9	7.1			0.6			0.090		52		<LOD	236
SP3	29/02/2008	257	8.7	49.0	99.4	6.7			<LOD			>LOD		59		0.190	167
SP3	03/03/2008	335	6.8	11.1	103.9	6.5			0.2			0.160		32		0.040	225
SP3	04/03/2008	350	8.1	8.8	105.1	7.2			0.3			0.420		49		0.020	231
SP3	05/03/2008	360	8.0	9.0	99.7	7.1			0.2			0.140		27		0.020	237
SP1	26/02/2008	247		10.1		7.3	9	20		1.327	0.031	0.019	0.034	27	204	0.060	144
SP3	26/02/2008	240		4.9		7.2	6	11		1.391	0.033	0.044	0.048	37	236	0.035	167
SP1	03/03/2008	210		12.3		6.9	11	22		0.879	0.056	<0.005	0.040	36	294	0.068	118
SP3	03/03/2008	230		23.5		7.3	27	11		1.106	0.034	0.007	0.040	37	510	0.035	139
Additional Monitoring																	
D22	22/02/2008	296	8.1	4.3	99.7	6.9			<LOD			0.190		51		0.130	199
D22	29/02/2008	204	7.9	6.7	93.1	6.4			<LOD			<LOD		44		0.060	139
D62	22/02/2008	203	7.9	2.0	96.3	4.4			0.1			>LOD		9		0.060	130
D62	29/02/2008	177	8.1	2.8	95.6	4.8			0.1			0.010		11		0.070	114
Axonics Monitoring																	
Pre	21/02/2008	355		27.4		6.8			0.4			0.500		190		0.060	237
Post	21/02/2008	364		2.3		6.9			0.7			0.260		20	462	0.050	244
Pre	22/02/2008	373		18.8		6.9			0.4			0.260		92		0.090	247
Post	22/02/2008	380		3.1		6.7			0.5			0.560		8	361	0.080	253
Pre	25/02/2008	339		106.0		7.1			<LOD			0.270		213		0.050	225
Post	25/02/2008	356		8.1		6.8			0.6			0.280		31	449	0.060	242
Pre	26/02/2008	342		28.4		7.0			<LOD			0.140		58		<LOD	218
Post	26/02/2008	355		2.0		6.9			0.3			0.260		14	472	0.020	228
Pre	27/02/2008	347		40.3		7.2			<LOD			0.160		86		0.010	224
Post	27/02/2008	362		3.7		6.8			0.9			0.160		13	555	0.020	245
Pre	28/02/2008	359		26.0		6.9			0.2			0.630		71		0.080	231
Post	28/02/2008	390		3.2		6.8			0.5			0.280		19	579	0.010	240
Pre	29/02/2008	360		53.0		6.8			<LOD			<LOD		142		0.200	232
Post	29/02/2008	385		3.7		6.4			0.4			<LOD		15	515	0.100	250
Pre	03/03/2008	335		24.5		6.5			<LOD			0.230		168		0.010	224
Post	03/03/2008	349		2.3		6.4			<LOD			0.890		14	478	<LOD	231
Pre	04/03/2008	344		17.0		7.7			0.5			0.330		90		0.040	230
Post	04/03/2008	366		7.7		6.8			0.4			0.270		70	390	<LOD	241
Pre	05/03/2008	339		76.0		7.8			<LOD			0.500		110		0.060	222
Post	05/03/2008	257		2.0		6.8			0.4			0.100		15	352	0.190	239
Pre Axonics	21/02/2008	251		8.5		6.9	23	<10		2.049	0.010	0.227	0.052	20	836	<0.03	177
Post Axonics	21/02/2008	249		0.9		6.4	4	<10		1.736	<0.01	0.203	0.052	<20	214	<0.03	173
Pre Axonics	26/02/2008	242		16.6		7.1	42	<10		1.481	0.059	0.127	0.052	4517	30	<0.03	160
Post Axonics	26/02/2008	243		1.2		6.3	2	<10		1.398	<0.01	0.123	0.045	<20	416	<0.03	165
Pre Axonics	03/03/2008	233		8.7		6.8	23	<10		2.165	0.042	0.152	0.053	164	1682	<0.03	168
Post Axonics	03/03/2008	229		1.2		6.4	4	<10		1.943	0.025	0.094	0.058	<20	430	<0.03	164

I.P. = In Progress
 Italics = Indicative Only
 < LOD = Below Limit of Detection

Groundwater Monitoring Record Sheet

Conducted by										Approved by									
Name:										Name									

Determinant Results

Location	Date	DO	Temp	Cond.	pH	TDS	Nitrate as NO ₃	Ammonia	Aluminium	BOD	TSS	Orthophosphate as P	Total Hardness	Nitrite as NO ₂	Arsenic	Mercury	Lead	Zinc	Chromium	Copper	Cadmium	Iron	Tin
		% Sat	°C	uS/cm		mg l ⁻¹	mg l ⁻¹	mg l ⁻¹	ug l ⁻¹	mg l ⁻¹	mg l ⁻¹	ug l ⁻¹	mg/l CaCO ₃	mg l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹	ug l ⁻¹
MP 1	04/03/2008	22.0	10.2	241.0	6.0	154.0	<0.44	1.785	158	1	16		68.9	0.025	4.00	<0.05	2	<5	1	<1	<0.5	21430	1.0
MP 2	04/03/2008	30.0	10.8	402.0	5.9	241.0	<0.44	2.410	168	2	68		75.2	<0.017	<0.5	<0.05	2	10	1	<1	<0.5	5600	<0.5
MP 3	04/03/2008	30.0	11.7	457.0	5.4	235.0	<0.44	2.983	2521	4	390		79.7	0.023	0.70	<0.05	4	21	3	5	<0.5	8306	<0.5
MP 4	04/03/2008	34.0	10.1	415.0	6.1	213.0	<0.44	0.380	4833	12	341		76.8	<0.017	1.00	<0.05	11	31	8	17	<0.5	60270	0.8
MP 5	04/03/2008	15.0	11.2	238.0	6.0	154.0	<0.44	1.579	951	9	217		97.6	0.023	<0.5	<0.05	2	15	4	3	<0.5	12460	<0.5
MP 6	04/03/2008	54.0	10.4	421.0	6.4	219.0	<0.44	1.823	113	11	50		100.9	<0.017	9.00	<0.05	3	7	<0.5	<1	<0.5	46680	1.0
MP 7	04/03/2008	23.0	11.0	240.0	6.0	172.0	<0.44	2.793	134	8	129		42.9	0.034	<0.5	<0.05	1	<20	<0.5	<1	<0.5	39690	<0.5
MP 8	04/03/2008	20.0	10.2	217.0	5.5	118.0	<0.44	1.286	4569	8	1826		73.5	0.025	0.50	<0.05	5	11	3	2	<0.5	9340	<0.5
MP 9																							
MP 10a	04/03/2008	27.0	12.6	462.0	6.1	250.0	<0.44	0.321	1628	13	1766		231.9	0.020	<0.5	<0.05	6	21	4	10	<0.5	3795	<0.5
MP 11	04/03/2008	23.0	11.4	183.2	5.6	101.0	<0.44	0.016	87	3	31		33.2	0.058	<0.5	<0.05	<0.5	23	<0.5	2	<0.5	229	<0.5

Graphs provided for MP1, MP2,MP4, MP6 and MP7 for: Temperature, Conductivity, and pH.

Dust Monitoring Record Sheet				no... 1 of 1			
Conducted by			Approved by				
Name:		Signed		Name:		Signed	
Determinant Results							
	Date Positioned	Date Removed	Ref. Number	Date Dispatched	Date Returned	Weight (mg/sq.m/day)	Comments
Target (Consent) Limit: 350 mg m ² d ⁻¹ on as a 30 day average							
D1	11/05/2007	12/06/2007	133929	15/06/2007	16/07/2007	<1	
D2	11/05/2007	12/06/2007	135930	15/06/2007	16/07/2007	258	
D3	11/05/2007	12/06/2007					D3 not sent due to the presence of bird droppings
D4	11/05/2007	12/06/2007	133932	15/06/2007	16/07/2007	329	
D1	12/06/2007	12/07/2007	137580	16/07/2007	26/07/2007	305	
D2	12/06/2007	12/07/2007	137581	16/07/2007	26/07/2007	241	
D3	12/06/2007	12/07/2007	137582	16/07/2007	26/07/2007	177	
D4	12/06/2007	12/07/2007	137583	16/07/2007	26/07/2007	179	
D1	12/07/2007	13/08/2007	140364	13/08/2007	17/08/2007	863	Algal growth
D2	12/07/2007	13/08/2007	140365	13/08/2007	17/08/2007	410	Algal growth
D3	12/07/2007	13/08/2007	140366	13/08/2007	17/08/2007	406	Algal growth
D4	12/07/2007	13/08/2007	140367	13/08/2007	17/08/2007	246	
D1	13/08/2007	13/09/2007	143627	14/09/2007	20/09/2007	NDP	NDP due to copper sulphate interference
D2	13/08/2007	13/09/2007	143628	14/09/2007	20/09/2007	NDP	NDP due to copper sulphate interference
D3	13/08/2007	13/09/2007	143629	14/09/2007	20/09/2007	NDP	NDP due to copper sulphate interference
D4	13/08/2007	13/09/2007	143630	14/09/2007	20/09/2007	NDP	NDP due to copper sulphate interference
D1	13/09/2007	15/10/2007	147427	17/10/2007	15/10/2007	242	
D2	13/09/2007	15/10/2007	147427	17/10/2007	15/10/2007	328	
D3	13/09/2007	15/10/2007	147427	17/10/2007	15/10/2007	320	
D4	13/09/2007	15/10/2007	147427	17/10/2007	15/10/2007	184	
D1	15/10/2007	23/11/2007	153945	26/11/2007	19/12/2007	142	
D2	15/10/2007	23/11/2007	153946	26/11/2007	19/12/2007	225	
D3	15/10/2007	23/11/2007	153947	26/11/2007	19/12/2007	530	Heavily Contaminated with peat, possibly vandalised. See Report
D4	15/10/2007	23/11/2007	153948	26/11/2007	19/12/2007	127	
D1	23/11/2007	23/12/2007	157412	04/01/2008	22/01/2008	68	
D2	23/11/2007	23/12/2007	157413	04/01/2008	22/01/2008	24	
D3	23/11/2007	23/12/2007	157414	04/01/2008	22/01/2008	214	
D4	23/11/2007	23/12/2007	157415	04/01/2008	22/01/2008	169	
D1	23/12/2007	23/01/2008	158975	24/01/2008	18/02/2008	280	
D2	23/12/2007	23/01/2008	158976	24/01/2008	18/02/2008	355	
D3	23/12/2007	23/01/2008	158977	24/01/2008	18/02/2008	295	
D4	23/12/2007	23/01/2008	158978	24/01/2008	18/02/2008	300	
D1	23/01/2008	25/02/2008	163401	25/02/2008	20/03/2008	471	
D2	23/01/2008	25/02/2008	163402	25/02/2008	20/03/2008	426	
D3	23/01/2008	25/02/2008	163403	25/02/2008	20/03/2008	765	
D4	23/01/2008	25/02/2008	163404	25/02/2008	20/03/2008	398	
D1	25/02/2008	25/03/2008	I.P.	28/03/2007	I.P.	I.P.	
D2	25/02/2008	25/03/2008	I.P.	28/03/2007	I.P.	I.P.	
D3	25/02/2008	25/03/2008	I.P.	28/03/2007	I.P.	I.P.	
D4	25/02/2008	25/03/2008	I.P.	28/03/2007	I.P.	I.P.	

NDP = No Determination Possible

Monitoring Points are numbered clockwise through the Cardinal Marks (N, E, S, W)

Monitoring Results will be presented monthly

Noise Monitoring Record Sheet											no... 1 of 1	
Conducted by							Approved by					
Name: Siobhan Quinn						Signed		Name:			Signed	
Determinant Results												
Location	Air Temp. (Max)	Air Temp. (Min)	Start Date	Time	Duration	Serial No.	Wind		Results dB			*Comments
							Speed (m/s)*	Direction (Degrees)	L _{Aeq}	L _{Amin}	L _{Amax}	
Action Limit									60			
Target Limit									65			
N1	11.0	9.4	21/02/08	07:00:00	11:00:00	2343754	6.9	48.7	56.5	47.1	81.6	
N1	10.8	7.1	22/02/08	08:00:00	11:00:00	2343754	6.1	72.8	53.6	46.4	64.2	
N1	10.9	6.2	25/02/08	07:00:00	10:00:00	2343754	8.1	29.4	62.1	45.4	84.8	
N1	8.8	5.5	26/02/08	07:00:00	11:00:00	2343754	6.4	87.3	53.9	43.6	77.0	
N1	9.4	4.0	27/02/08	07:00:00	11:00:00	2343754	1.9	69.8	51.5	42.3	69.7	
N1	10.1	4.7	28/02/08	07:00:00	11:00:00	2343754	2.3	51.7	52.6	41.7	68.6	
N1	9.7	7.3	29/02/08	08:00:00	11:00:00	2343754	7.7	22.5	57.8	49.6	81.6	
N1	9.4	4.0	03/03/08	07:00:00	10:00:00	2343754	5.5	118.9	56.4	43.2	43.2	
N1	10.1	4.7	04/03/08	07:00:00	11:00:00	2343754	3.9	124.9	51.6	42.7	42.7	
N1	11.7	7.3	05/03/08	07:00:00	11:00:00	2343754	4.3	57.8	54.0	43.0	43.0	

* Wind speeds in excess of 5 m/s negatively impact noise readings (as per EPA Guidance Note on Noise Measurement).

Flow Weir Record Sheet							
Conducted by			Approved by				
Name:	Signed		Name:				
Determinant Results							
Date	SP1			SP3			Comment
	Max (l/s)	Min (l/s)	Avg (l/s)	Max (l/s)	Min (l/s)	Avg (l/s)	
21/02/08	20.09	8.00	16.64	7.23	0.02	4.17	
22/02/08	23.51	7.54	17.71	6.50	-0.03	2.91	
23/02/08	76.02	16.99	25.53	19.40	4.69	8.17	
24/02/08	100.34	30.99	47.67	25.51	9.02	14.40	
25/02/08	144.25	32.06	63.26	28.96	9.55	17.81	
26/02/08	54.63	28.92	38.25	20.44	6.26	12.58	
27/02/08	33.14	25.97	29.61	12.68	6.74	9.15	
28/02/08	35.39	24.42	30.58	11.22	7.23	8.98	
29/02/08	244.94	32.42	93.75	51.05	10.38	23.90	
01/03/08	79.69	34.26	54.03	23.29	7.98	17.16	
02/03/08	47.05	25.97	37.08	16.08	5.57	12.43	
03/03/08	84.10	43.51	55.65	18.05	9.02	13.68	
04/03/08	47.05	20.64	31.22	15.44	4.91	9.95	
05/03/08	25.34	17.49	21.50	9.55	4.91	7.01	

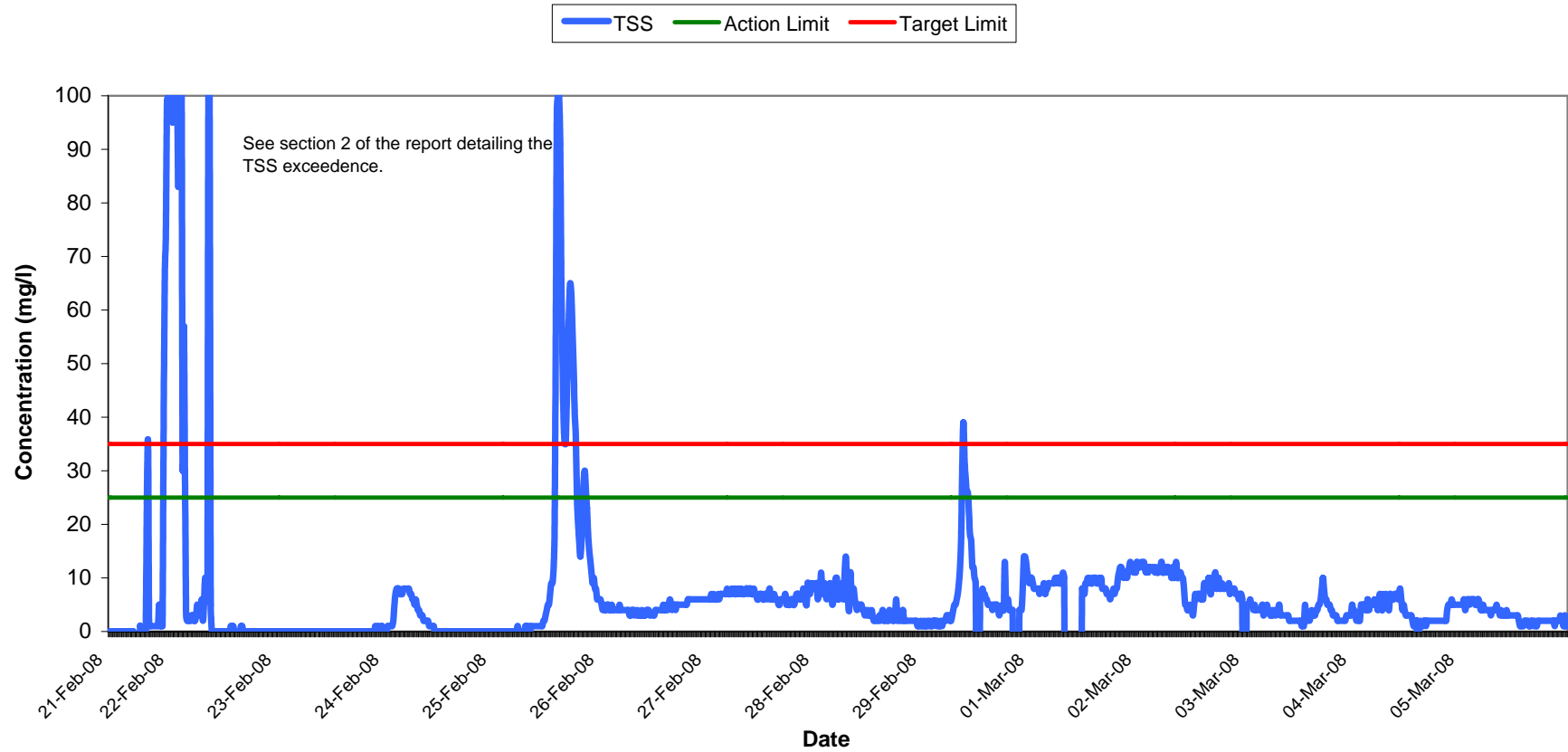
Note: Negative Values Indicate Low Flow Conditions

Vibration Monitoring Record Sheet		no...		1 of 1	
Conducted by			Approved by		
Name: Signed			Name: Signed		

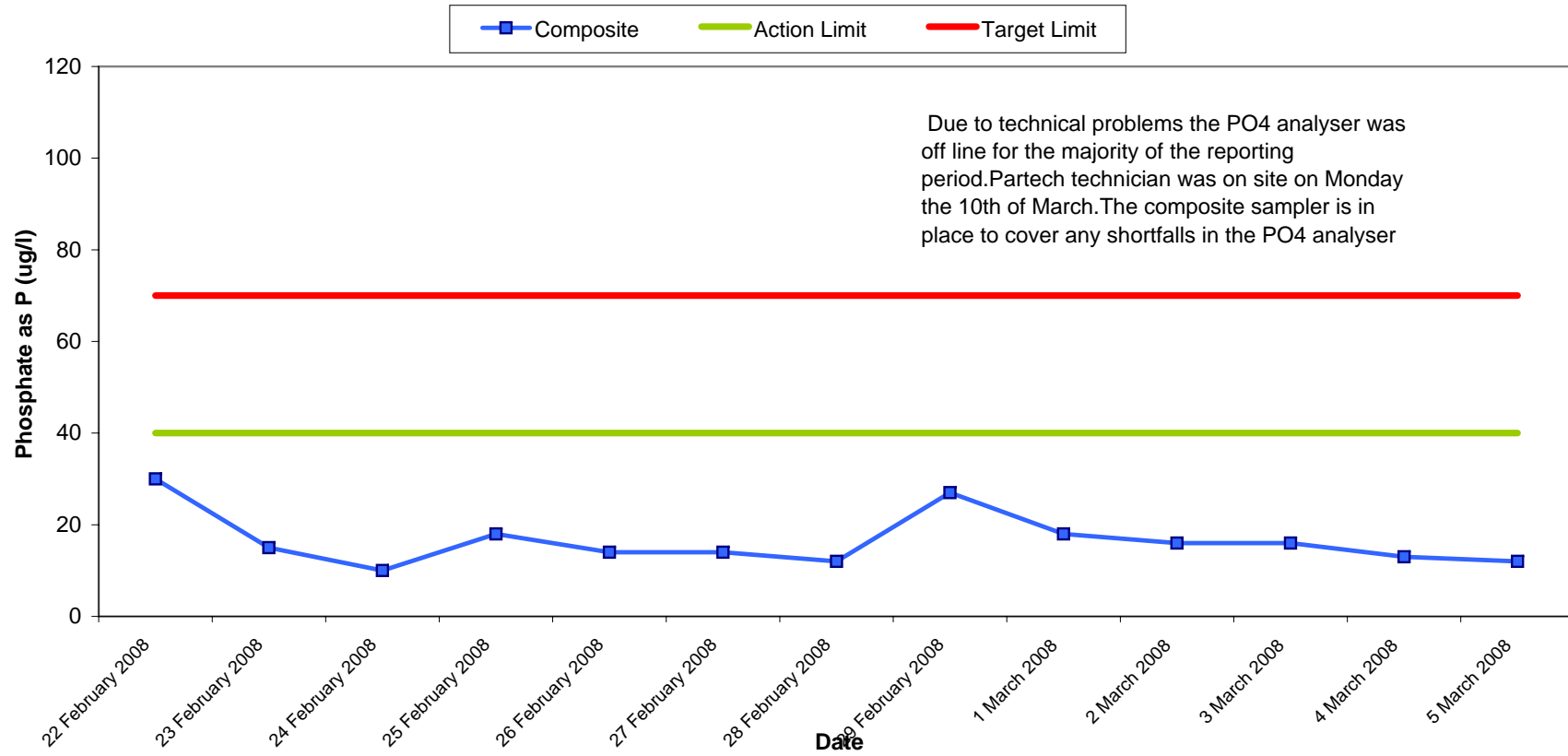
Determinant Results									
Location	Date Positioned	Date Removed	Event Date	Event Time	Peak Vector Sum	Tran PPV	Vert PPV	Long PPV	Comments
V1	21-Feb-08			12:08					Monitor Started
			22/02/2008	8:27	5.69	2.92	5.33	1.78	Sensor check
		24-Feb-08		11:47					Monitor Stopped & housed for wkend
	25-Feb-08			8:41					Monitor Started
			25/02/2008	8:43	4.03	2.92	3.43	2.67	Sensor check
		29-Feb-08		18:44					Monitor Stopped & housed for wkend
	03-Mar-08			8:16					Monitor Started
			03/03/2008	13:21	6.45	3.17	5.33	3.05	Sensor check

Vibration meter was located at V1 only.

Total Suspended Solids Results at SP1 Week 09-10, 2008

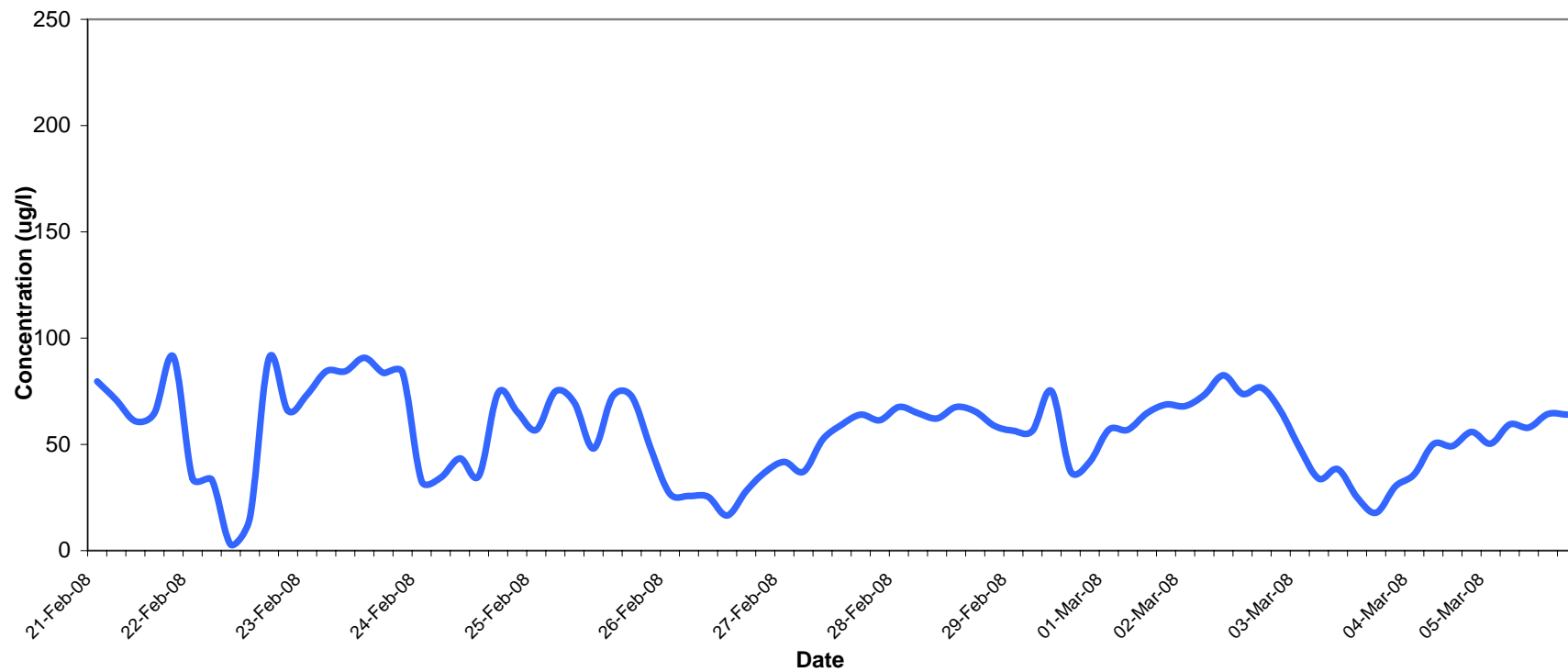


Orthophosphate Results at SP1 Composite Week 09-10, 2008

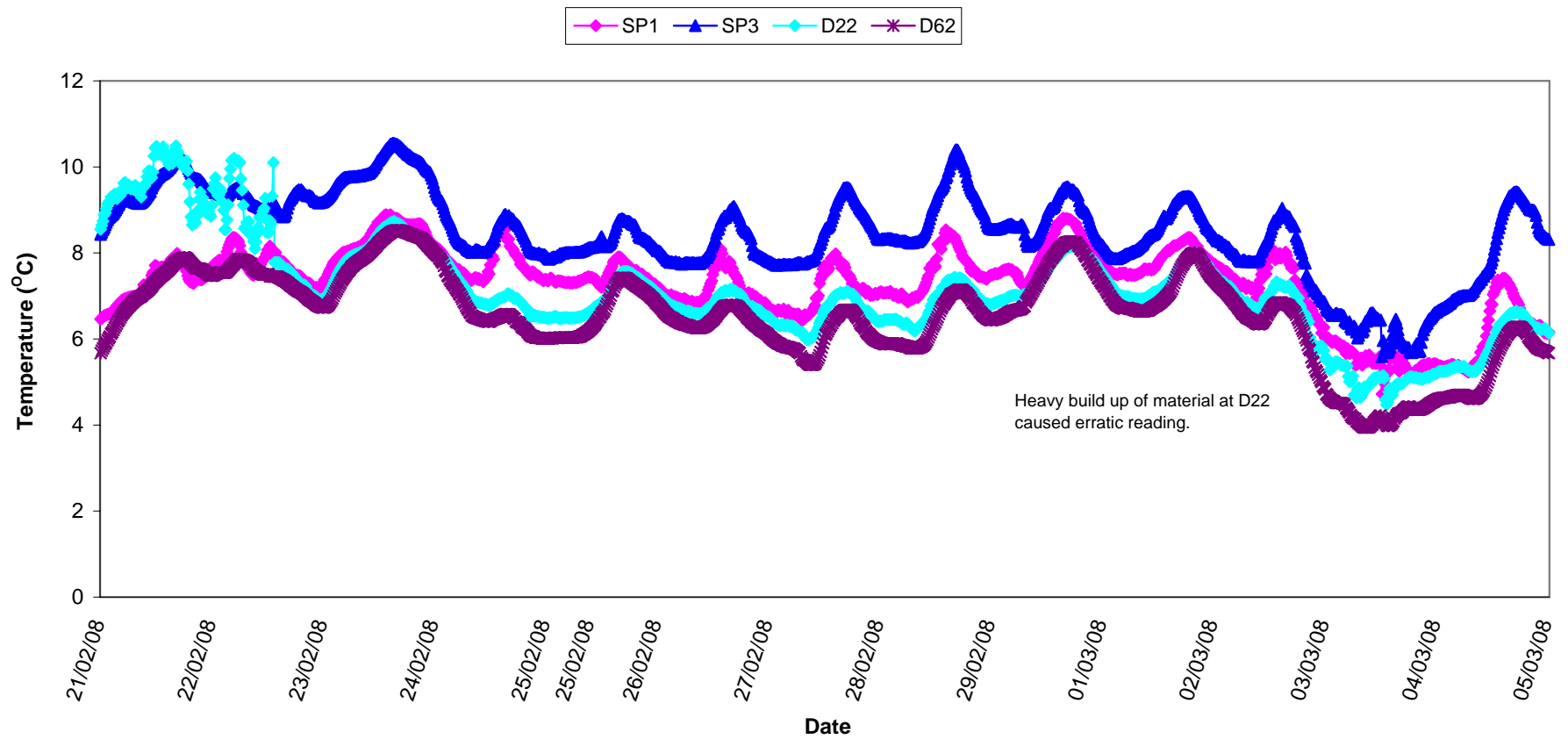


**Aluminium Concentration at SP1
Week 09-10, 2008**

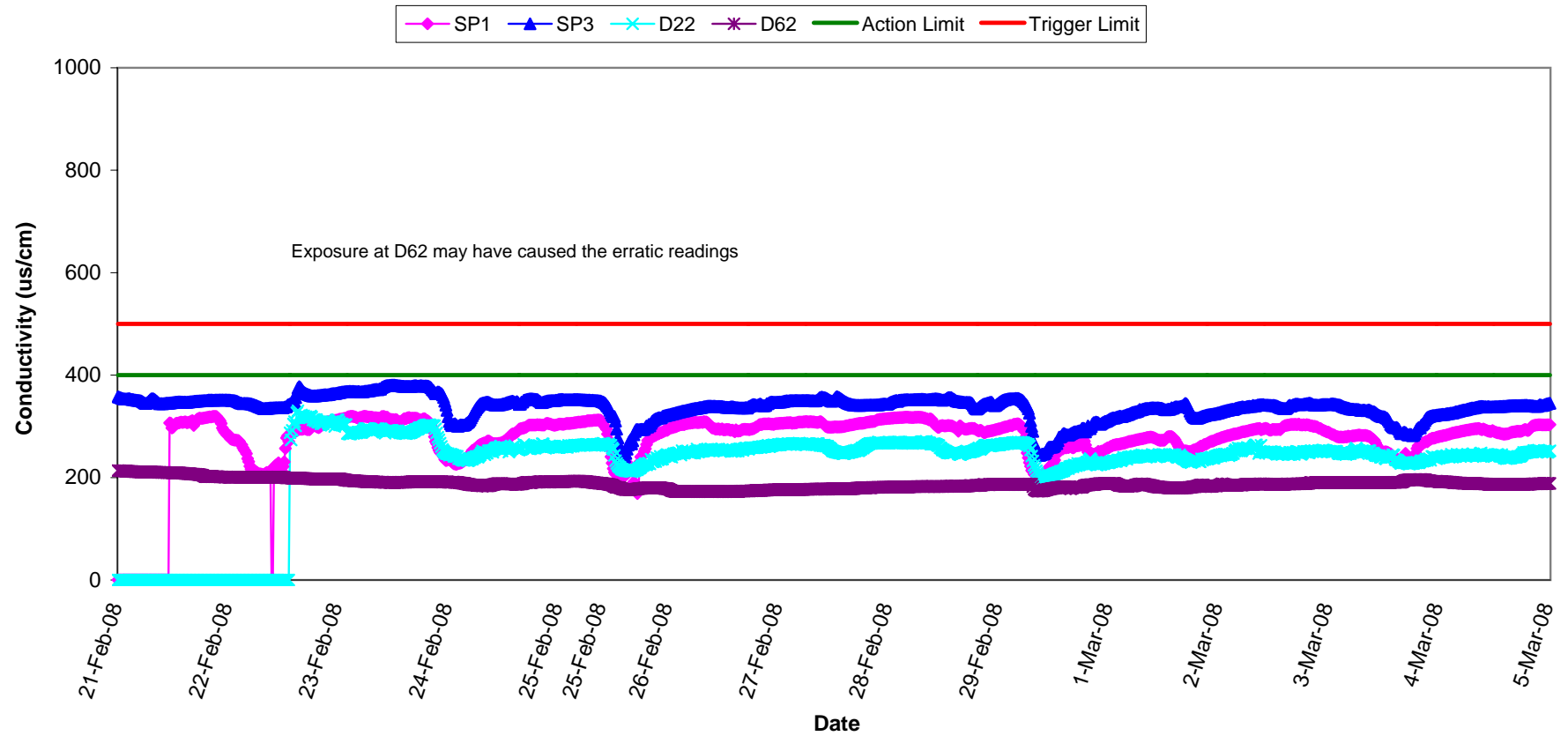
Aluminium



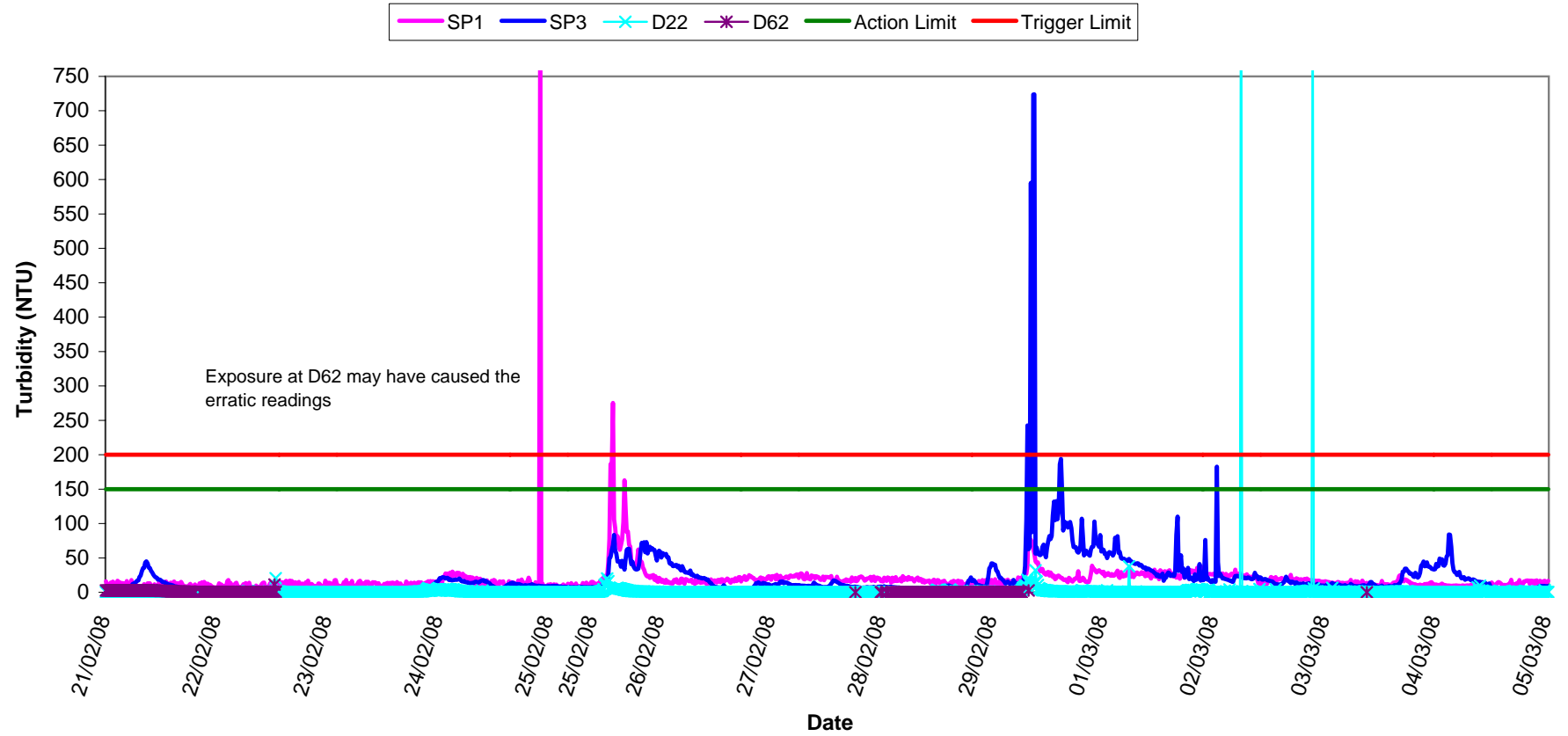
Temperature - Surface Waters,
Week 09-10, 2008



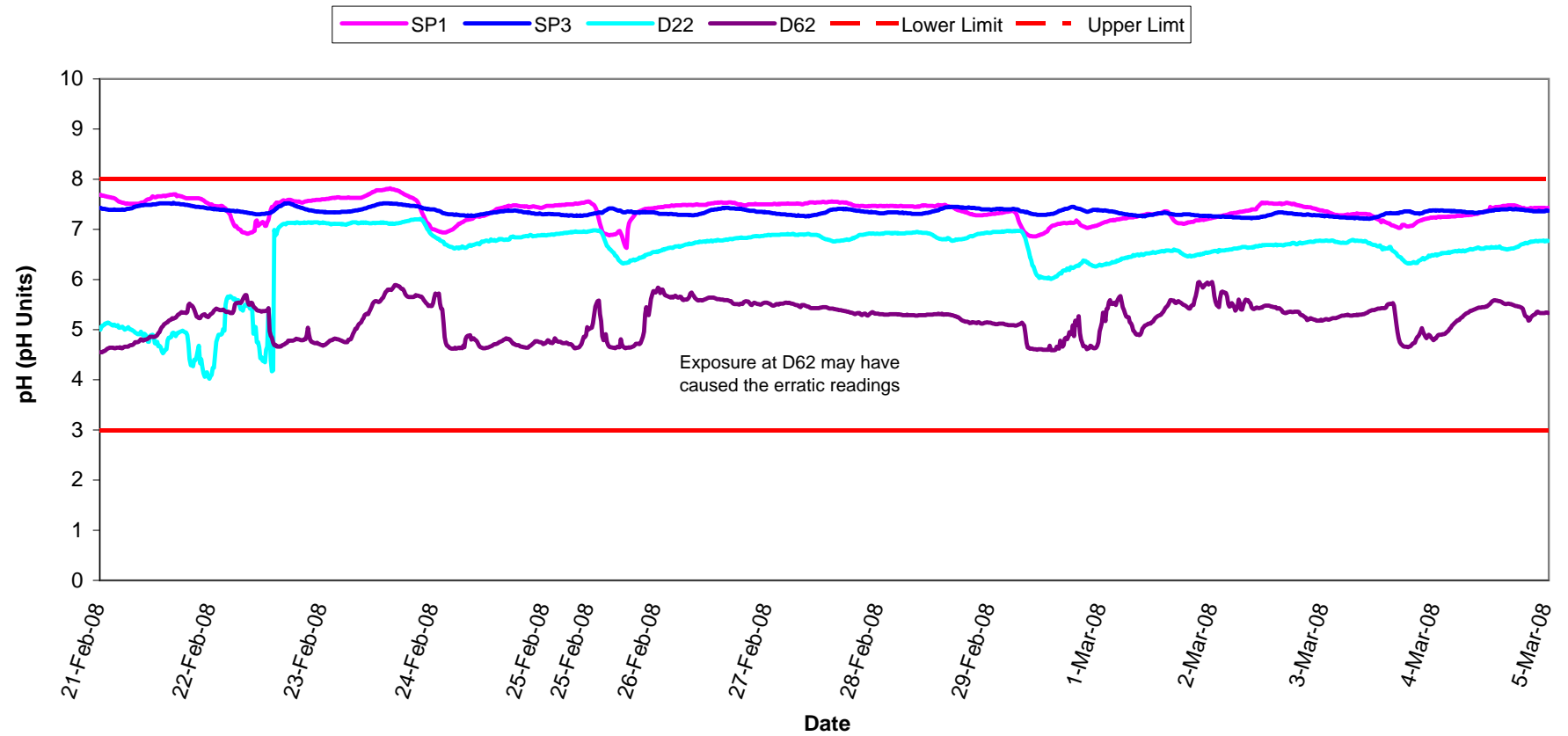
Conductivity - Surface Waters, Week 09-10, 2008



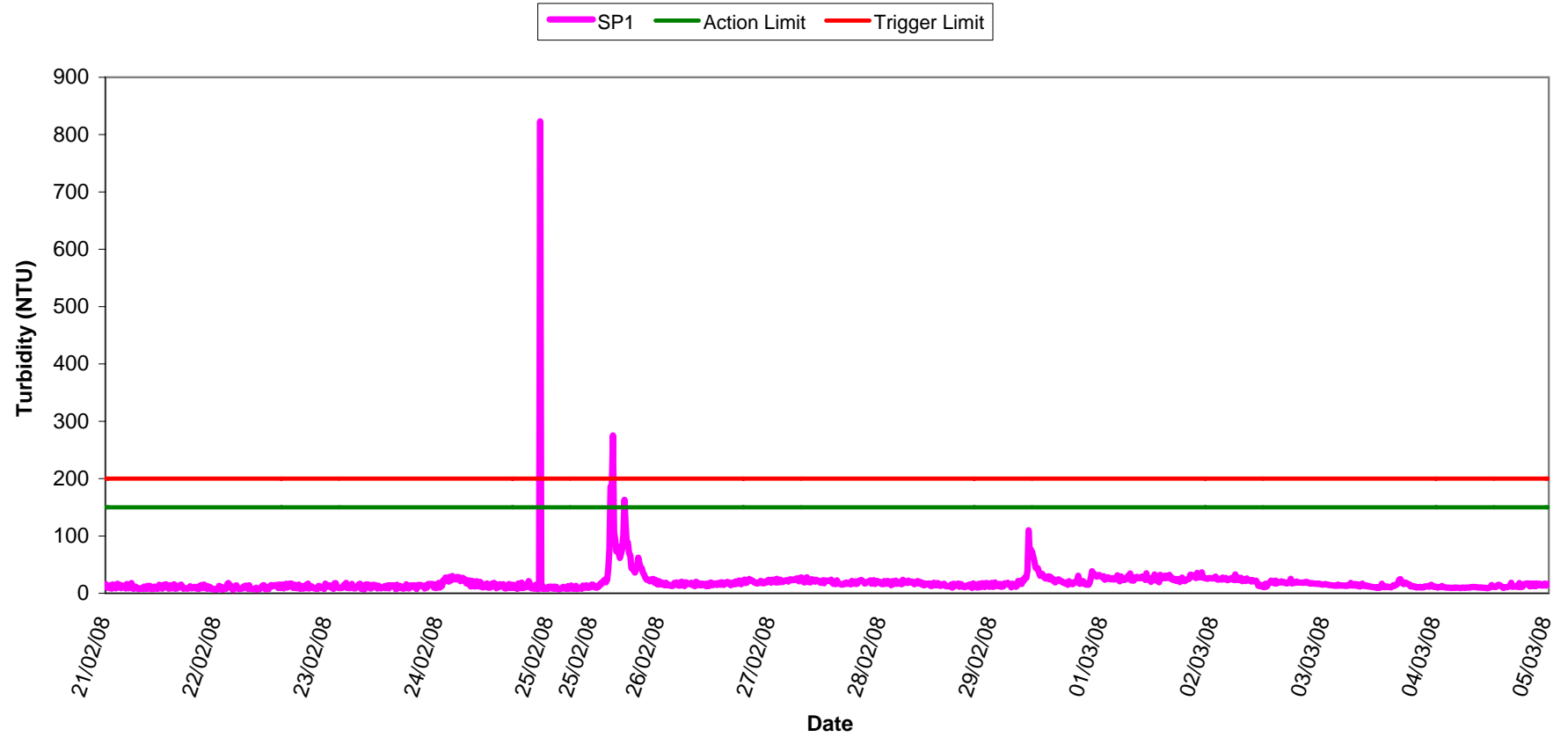
Turbidity - Surface Waters, Week 09-10, 2008



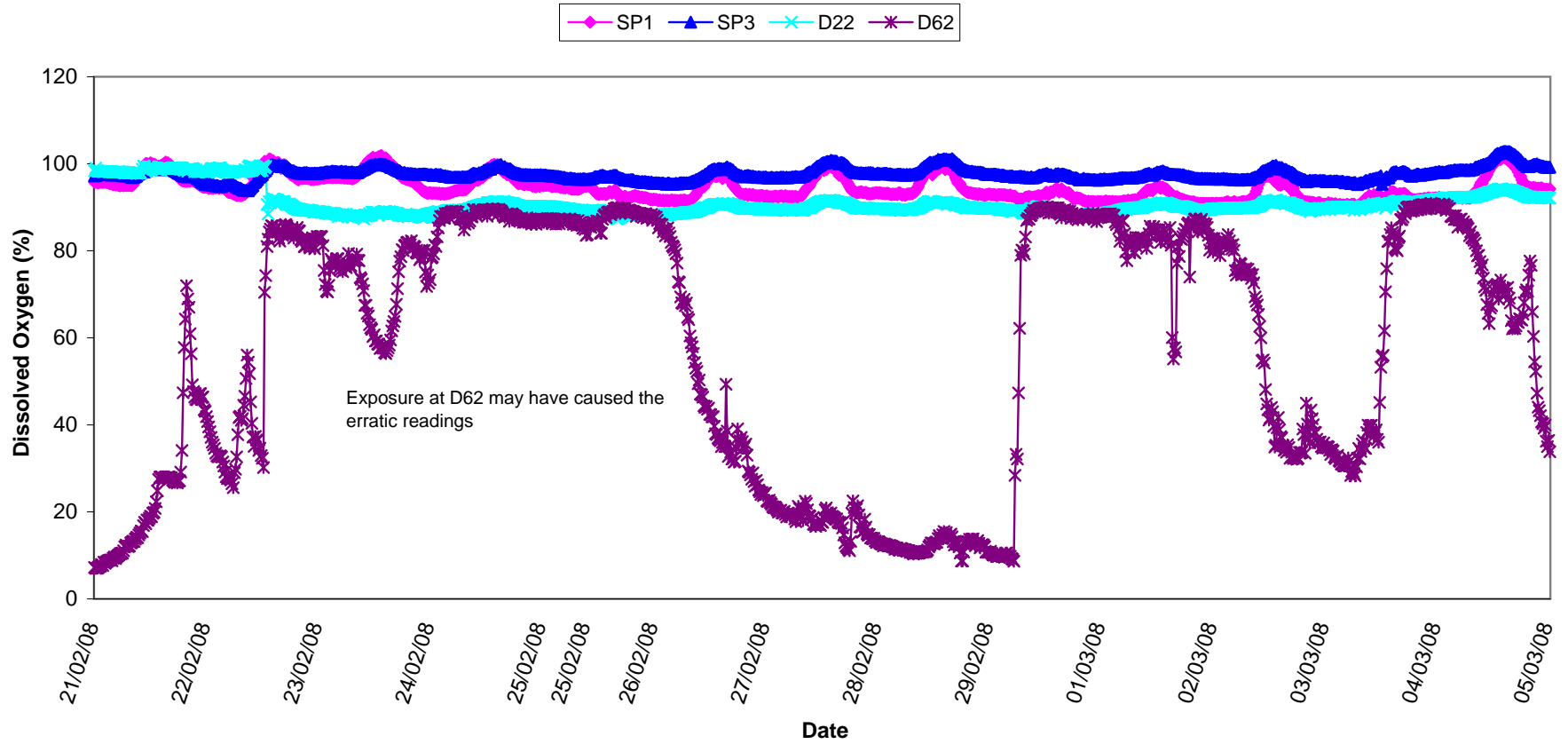
**pH - Surface Waters,
Week 09-10, 2008**



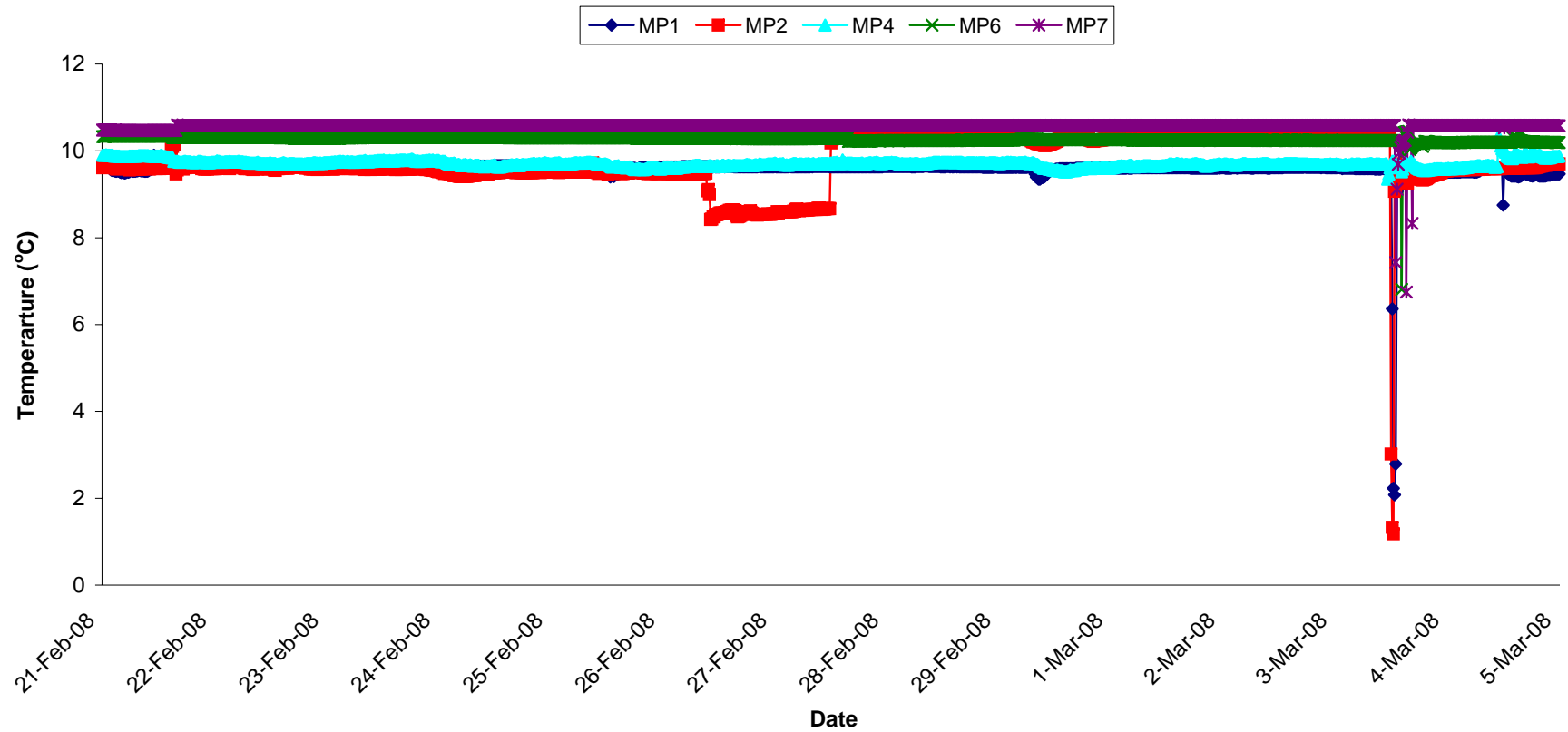
**Turbidity - Surface Waters @ SP1,
Week 09-10, 2008**



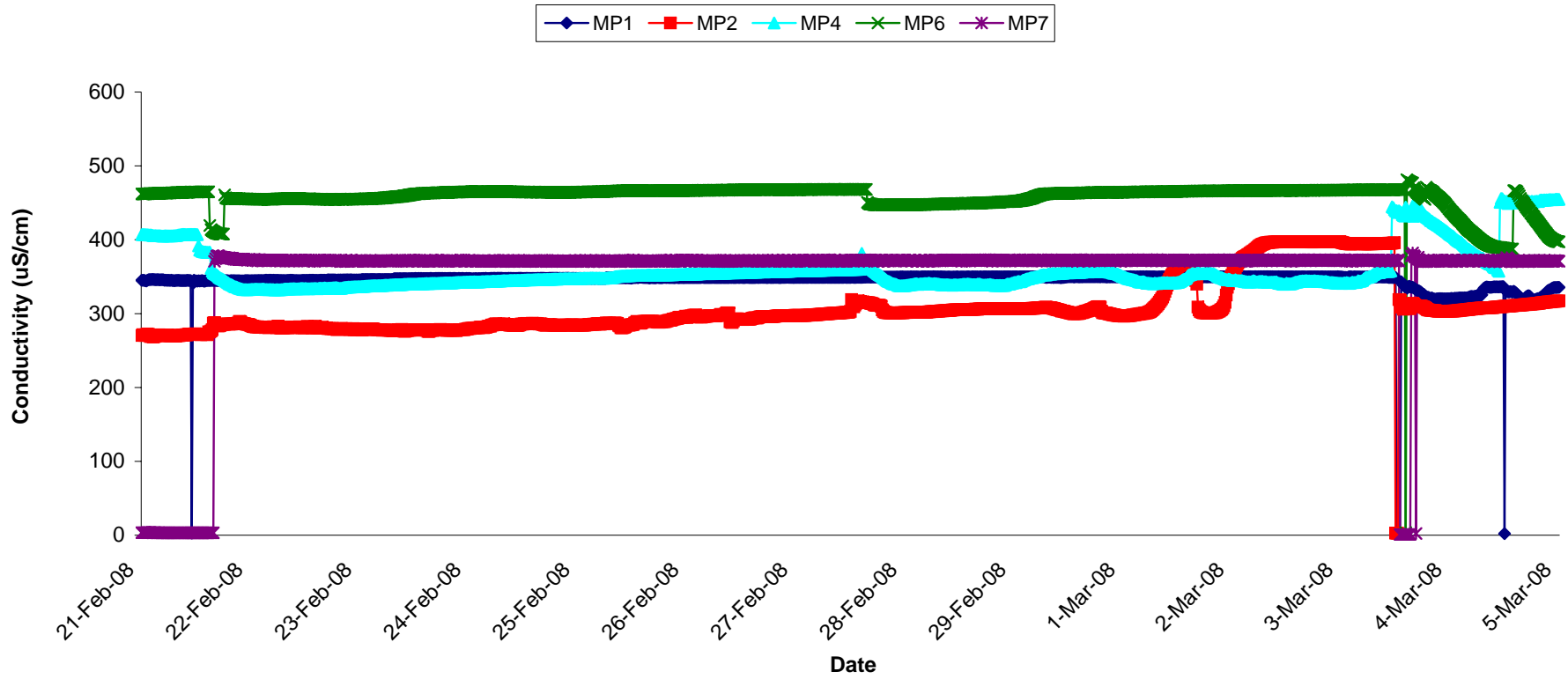
**Dissolved Oxygen - Surface Waters,
Week 09-10, 2008**



Temperature - Groundwaters
Week 09-10, 2008



Conductivity - Groundwaters
Week 07-08, 2008



pH - Groundwaters
Week 09-10, 2008

