Weekly Environmental Report - Status		Week Ending:	Thur. 14th April 2005
Generated By:	Sandra Barber		
Checked By:	Leslie Finnegan		

1 Monitoring Data

All monitoring data is presented in tabular form, see attached. The sonde data is also presented graphically.

1.1 Rainfall Data

The weather data now being reported is generated by the on-site weather station.

Date	8-Apr-05	9-Apr-05	10-Apr-05	11-Apr-05	12-Apr-05	13-Apr-05	14-Apr-05
Rainfall (mm)	0.4	1.6	0.0	7.0	2.6	16.6	10.8

1.2 Summary

Environment	Comments
Surface Water	Increased rainfall toward the middle of the week saw an increased volume of water in the drainage system on site. Sonde structures are, occasionally, points of build up for any foliage/debris in the drains. These then cause temporary or extended spikes in turbidity. Samples collected and monitored on site or at CLS labs show the turbidity to be fine.
Groundwater	Laboratory results are detailed in the table below.
Noise	L_{Aeq} at N1 recorded between 53.1 and 53.7dB L_{Aeq} at N2 recorded between 45.1 and 53.3dB The noise meter at N2 was taken off-site on the 12-04-05
Vibration	Max Pk Disp 0.24 mm with an associated acceleration 0.013 g*
Dust	Dust Gauges were collected on the 1st April 2005 and shipped to Complete Lab Solutions for analysis, the results are presented in the dust monitoring record sheet.
Weather	There was a total of 39 mm of rainfall during the reporting period, with a temperature range of 2.33 to 13.46 ^{o}C

* The data defined above uses different parameters than those outlined in the Environmental Monitoring Plan (velocity in mm/sec). The Environmental Monitoring Plan will be updated to show this change.

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2 Environmental Incidents/Near misses/Complaints

There was one environmental complaint and one environmental incident.

The complaint was made regarding water quality at D16 on the afternoon of the 13-04-05. The Roadbridge environmental officer investigated the complaint and collected a water sample for analysis. This complaint is being followed up by Shell's Local Liaison Officer and Shell's environmental officer.

The environmental incident involved the overflow of the wastewater tank on the eastern edge of the compound area. The drain the wastewater leaked into is not directly connected to any of the drains which exit the site. There was an insufficient volume of wastewater in the drain to pump out. To ensure there was no significant impact the drain was flushed with water to dilute any wastewater in the drain.

3 Other

- The groundwater wells MP10a and MEL BR4 were reinstated this week.
- The daily samples for total suspended solids and phosphate have been stopped as the two on-site analysers (D12) are now working effectively.
- D22 and the associated waters are still being checked for evidence of the organic growth. The presence of this growth on-site is now greatly reduced.
- D12 is currently monitoring prior to completion of all mitigation works. This means there may be exceedances for some water quality parameters at this location but this is not representative of the water quality leaving the site. The monitoring equipment at D12 will be transferred to it's new location next week.

Surface Water Monitoring Record Sheet												no… 1 of 2
Conducted by						Approved by						
Name: Sandra Barber		Signed				Name Leslie Finnegan			Signed			
Determinant Results												
	Date	Cond. µS	Temp °C	Turbidity NTU	DO % Sat	TSS* mg l^{-1}	Nitrate mg l^{-1}	Phosphate mg l^{-1} PO_4	pH	Ortho-phosphate* as P mg l^{-1}	Ammonia mg l^{-1}	*Comments
D12	01-Apr-05	174	10.4	25.3	84	12	0	< 10	6.3	0.034	0.133	
D16	01-Apr-05	214	10.2	13.3	74	7	0	< 10	6.33	0.056	0.086	
D22	01-Apr-05	335	10.0	8.3	32	5	0	< 10	6.41	0.013	0.017	
DS1	01-Apr-05	190	10.2	5.7	86		0	< 10	5.32			
D12	02-Apr-05	215	12.3	16.8	41		0	< 10	6.37			Saturday samples not issued to the lab for analysis
D16	02-Apr-05	236	10.8	4.4	32		0	< 10	6.18			
D22	02-Apr-05	267	12.4	3.9	30		0	< 10	6.64			
DS1	02-Apr-05	205	12.8	2.6	43		0	< 10	6.91			
D12	04-Apr-05	229	7.2	5.5	43	< 4	0	< 10	5.39	0.04	0.252	
D16	04-Apr-05	249	7.3	3.7	26	4	0	< 10	6.05	0.069	0.139	
D22	04-Apr-05	273	7.2	7.8	31	4	0	< 10	6.53	0.207	0.087	
DS1	04-Apr-05	222	7.2	2.2	42	< 4	0	< 10	6.86	0.012	0.014	
D12	05-Apr-05	200	8.1	5.4	42	28	0	< 10	5.77	0.029		
D16	05-Apr-05	246	8.2	3.5	32	< 4	0	< 10	6.21	0.064		
DS1	05-Apr-05	198	8.2	4.8	40	< 4	0	< 10	6.54	0.011		
D12	06-Apr-05	176	7.3	48.8	41	28	0	< 10	5.92	0.041	0.064	
D16	06-Apr-05	204	7.8	46.1	38	32	0	< 10	6.18	0.056	0.033	
DS1	06-Apr-05	168	8.0	14.0	40	237	0	< 10	6.23	0.017	< 0.005	TSS result is anomalous, not supported by Lab results taken.
D12	07-Apr-05	231	6.9	54.0	40	50	0	< 10	5.44	0.086		
D16	07-Apr-05	210	7.7	46.0	40	32	0	< 10	6.29	0.062		
DS1	07-Apr-05	175	7.5	19.3	40	9	0	< 10	6.43	0.029		

The data above details the results from daily analyses (Except weekly grab sample 23-03-05) carried out by Complete Lab Solutions for the previous reporting period.

Surface Water Monitoring Record Sheet												no… 2 of 2
Conducted by						Approved by						
Name: Sandra Barber		Signed				Name Leslie Finnegan			Signed			
Determinant Results												
	Date	Cond. µS	Temp °C	Turbidity NTU	DO % Sat	TSS*$ mg l^{-1}	Nitrate mg l^{-1}	Phosphate mg l^{-1} PO_4	pH	Ortho-phosphate as P *$ mg l^{-1}	Ammonia mg l^{-1}	*Comments
D12	08-Apr-05	264	7.6	16.1	92	15	0	< 10	6.20	0.109		
D16	08-Apr-05	210	6.3	3.6	86	< 4	0	< 10	5.83	0.036		
DS1	08-Apr-05	216	6.0	7.0	88	4	0	< 10	6.48	0.036		
D12	11-Apr-05	230	10.2	11.6	56		0	< 10	6.18			
D16	11-Apr-05	246	10.3	9.1	75		0	< 10	6.46			
D22	11-Apr-05	267	9.6	1.8	39		0	< 10	6.42			
D62	11-Apr-05	183	9.7	0.8	66		0	< 10	5.56			
DS1	11-Apr-05	233	10.3	1.6	83		0	< 10	6.70			
D12	12-Apr-05	235	7.1	31.2	69		0	< 10	5.80			
D16	12-Apr-05	235	8.9	13.9	50		0	< 10	6.01			
DS1	12-Apr-05	207	8.8	11.6	94		0	< 10	6.55			
D12	13-Apr-05	201	8.2	85.0	82		0	< 10	6.13			
D16	13-Apr-05	207	8.1	58.0	78		0	< 10	6.32			
D22	13-Apr-05	177	7.4	4.1	70		0	< 10	6.27			
DS1	13-Apr-05	240	8.7	21.1	90		0	< 10	6.42			
D12	14-Apr-05	214	6.7	120.0	79		0	< 10	6.14			
D16	14-Apr-05	216	5.9	52.0	81		0	< 10	6.14			
DS1	14-Apr-05	187	6.8	18.0	82		0	< 10	6.30			

* Carried out at CLS labs

$ Data not presented will be included in the next weekly report (Week ending Thursday 7th April 2005).

Groundwater Monitoring Record Sheet												no… 1 of … 1
Conducted by						Approved by						
Name: Sandra Barber		Signed				Name Leslie Finnegan			Signed			
Determinant Results												
Location	Date	Cond. uS/cm	Temp ^{o}C	BOD mg l^{-1}	DO % Sat	TSS* mg l^{-1}	Phosphate as P mg l-1	pH	Total Hardness mg/l caco3	Nitrite as $N0_2$ mg l^{-1}	Nitrate as $N0_3$ mg l^{-1}	Phosphate as PO_4 mg l^{-1}
MP 1												
MP 2												
MP 3												
MP 4												
MP 5												
MP 6												
MP 7												
MP 8												
MP 9												
MP 10												

Location	Date	TDS mg l^{-1}	Arsenic ug l^{-1}	Mercury ug l^{-1}	Lead ug l^{-1}	Aluminium ug l^{-1}	Zinc ug l^{-1}	Chromium ug l^{-1}	Copper ug l^{-1}	Cadmium ug l^{-1}	Iron ug l^{-1}	Tin ug l^{-1}
MP 1												
MP 2												
MP 3												
MP 4												
MP 5												
MP 6												
MP 7												
MP 8												
MP 9												
MP 10												

MP1, MP2, MP4, MP6 and MP7 have been installed with in-situ monitoring devices, these results are presented in attached tables.
MP10 was absorbed by the TCF area. This will be reinstated when an appropriate rig is on site.

Noise Monitoring Record Sheet										no… 1	of … 1
Conducted by							Approved by				
Name: Sandra Barber				Signed			Name: Leslie Finnegan			Signed	
Determinant Results											
Location	Start Date	Time	Duration	Serial No.	Wind		Results dB			*Comments	
					Speed (m/s)*	Direction (Degrees)	L_{Aeq}	L_{AFmin}	L_{AFmax}		
N1	08/04/2005	06:32:52	72:03:13	2343754	5.0	154.0	53.1	42	84.50	Meter run for entire weekend	
N1	11/04/2005	06:36:59	24:12:57	2343754	6.2	42.7	53.7	46	77.70		
N1	12/04/2005	06:51:34	12:00:00	2343754	3.6	73.5	53.2	47	81.00		
N1	14/04/2005	06:42:53	12:00:00	2343754	5.1	179.8	55.3	43	88.80		
N2	11/04/2005	08:37:51	12:00:00	2343753	6.2	42.7	53.3	45.1	74.9		
N2	12/04/2005	06:32:21	10:21:15	2343753	3.6	73.5	45.1	< 30	66.9		

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

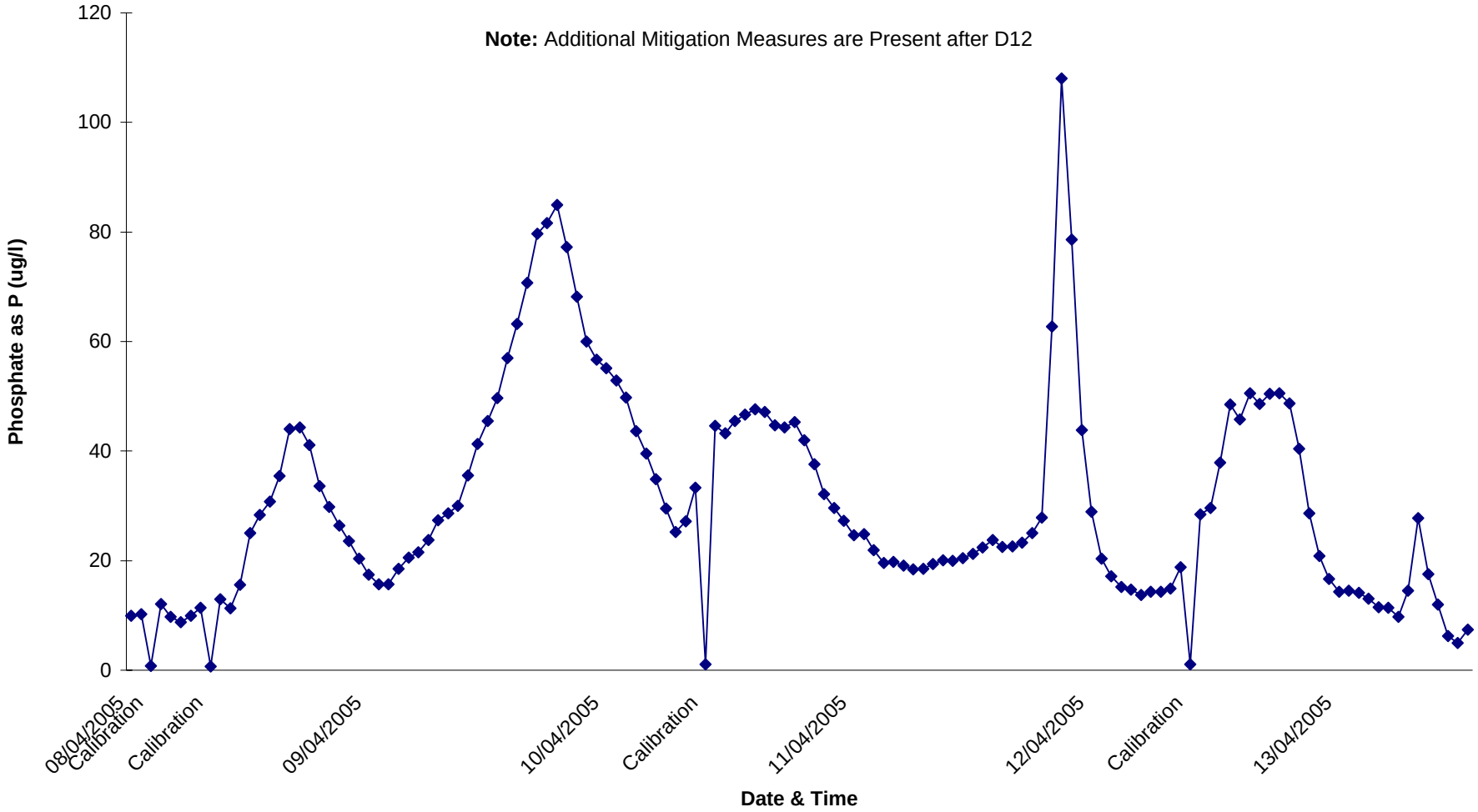
Dust Monitoring Record Sheet						no… 1 of … 1	
Conducted by				Approved by			
Name: Sandra Barber		Signed		Name: Leslie Finnegan		Signed	
				Determinant Results			
	Date Positioned	Date Removed	Ref. Number	Date Dispatched	Date Returned	Weight (mg/sq.m/day)	Comments
D1	02/03/2005	01/04/2005	61907	01/04/2005	08/04/2005	15	
D2	02/03/2005	01/04/2005	61908	01/04/2005	08/04/2005	15	
D3	02/03/2005	01/04/2005	61909	01/04/2005	08/04/2005	16	
D4	02/03/2005	01/04/2005	61910	01/04/2005	08/04/2005	14	
Consent Limit: 350 mg m^2 d^{-1} on as a 30 day average							

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

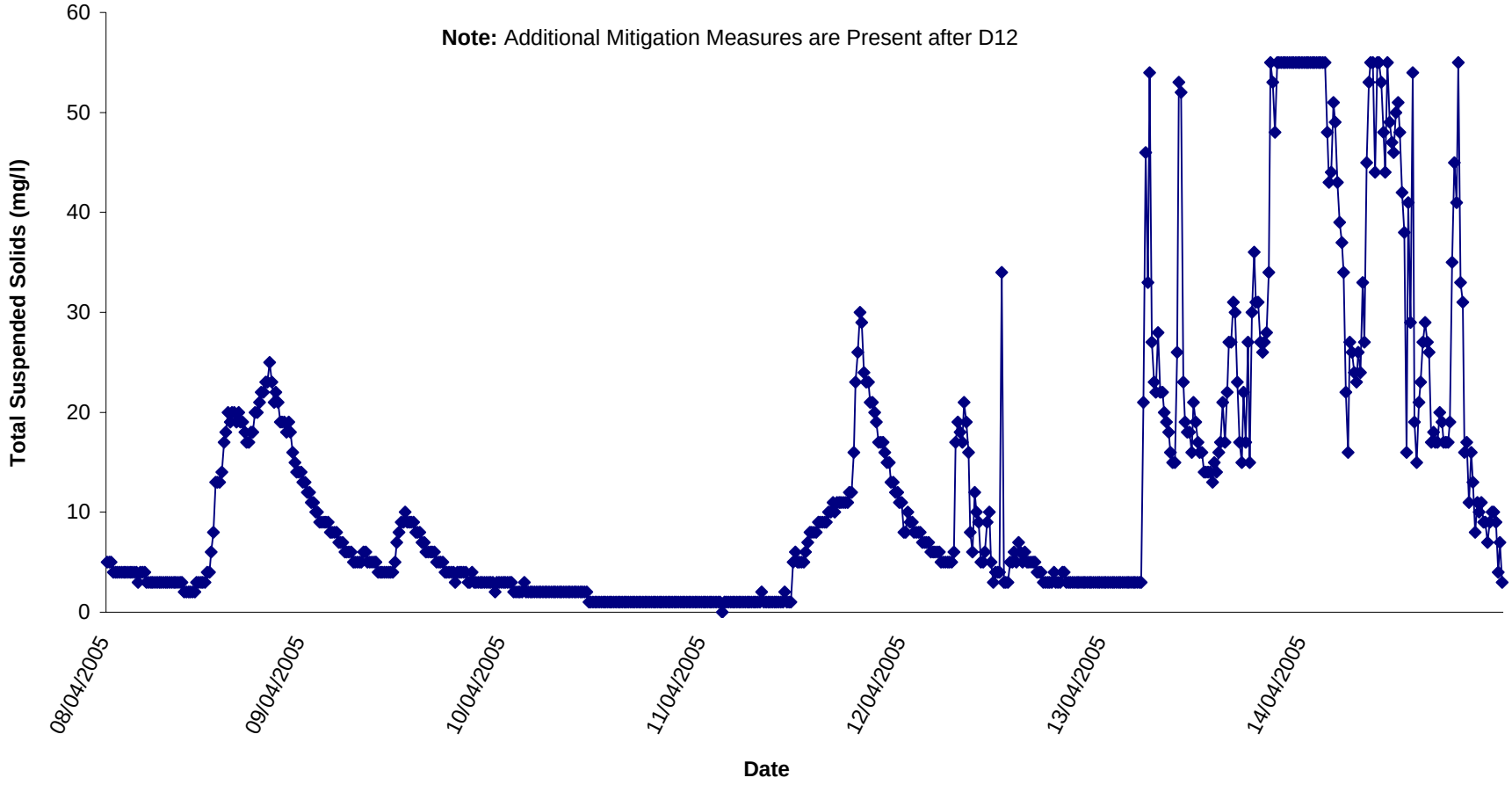
Vibration Monitoring Record Sheet				No…1	of…1
Conducted by			Approved by		
Name: Sandra Barber	Signed		Name: Leslie Finnegan	Signed	
Determinant Results					
Location	Date Positioned	Date Removed	Event Time	Pk Disp (mm)	Accel (g)
V1	13/04/2005	14/04/2005	15:36:40	0.24	0.013
V1	13/04/2005	14/04/2005	15:36:40	0.14	0.027
V1	13/04/2005	14/04/2005	15:36:40	0.34	0.013
V2	14/04/2005	15/04/2005	16:42:43	0	0.013
V2	14/04/2005	15/04/2005	16:42:43	0.039	0.04
V2	14/04/2005	15/04/2005	16:42:43	0.048	0.053

Vibration meter was moved between V1 and V2 daily

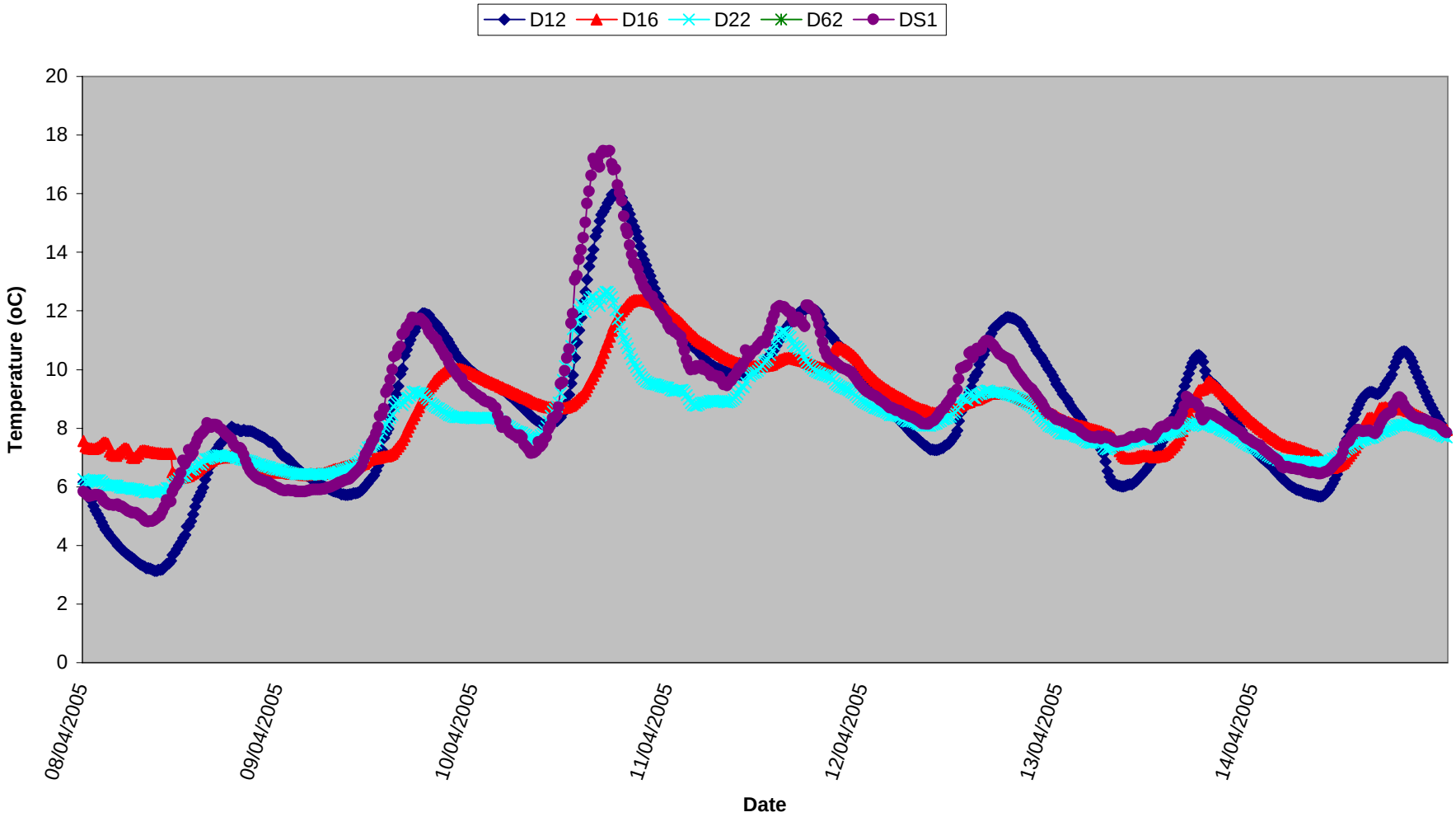
Surface Water (D12)
Phosphate, Week 15 2005

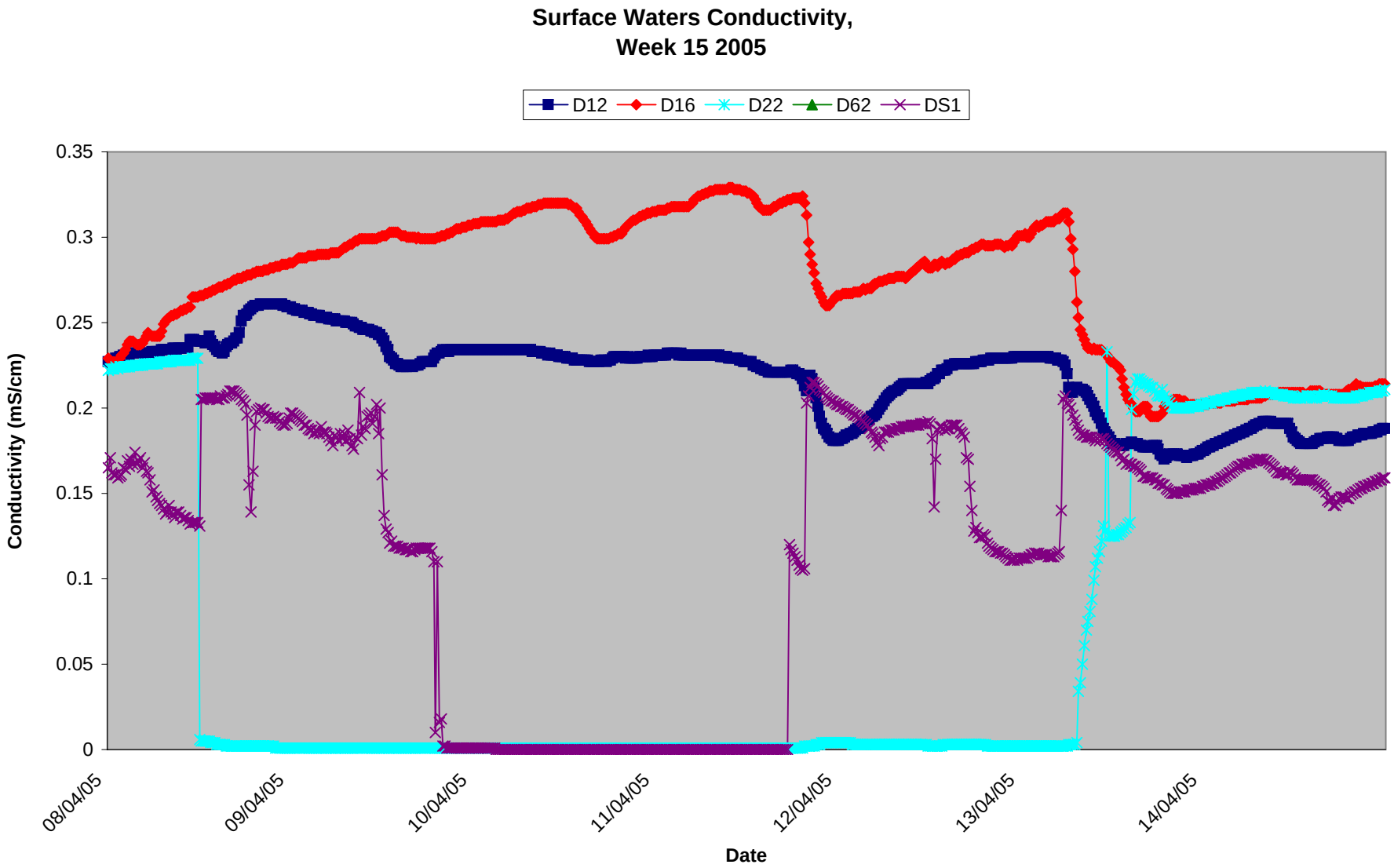


Surface Water (D12)
Total Suspended Solids, Week 15 2005

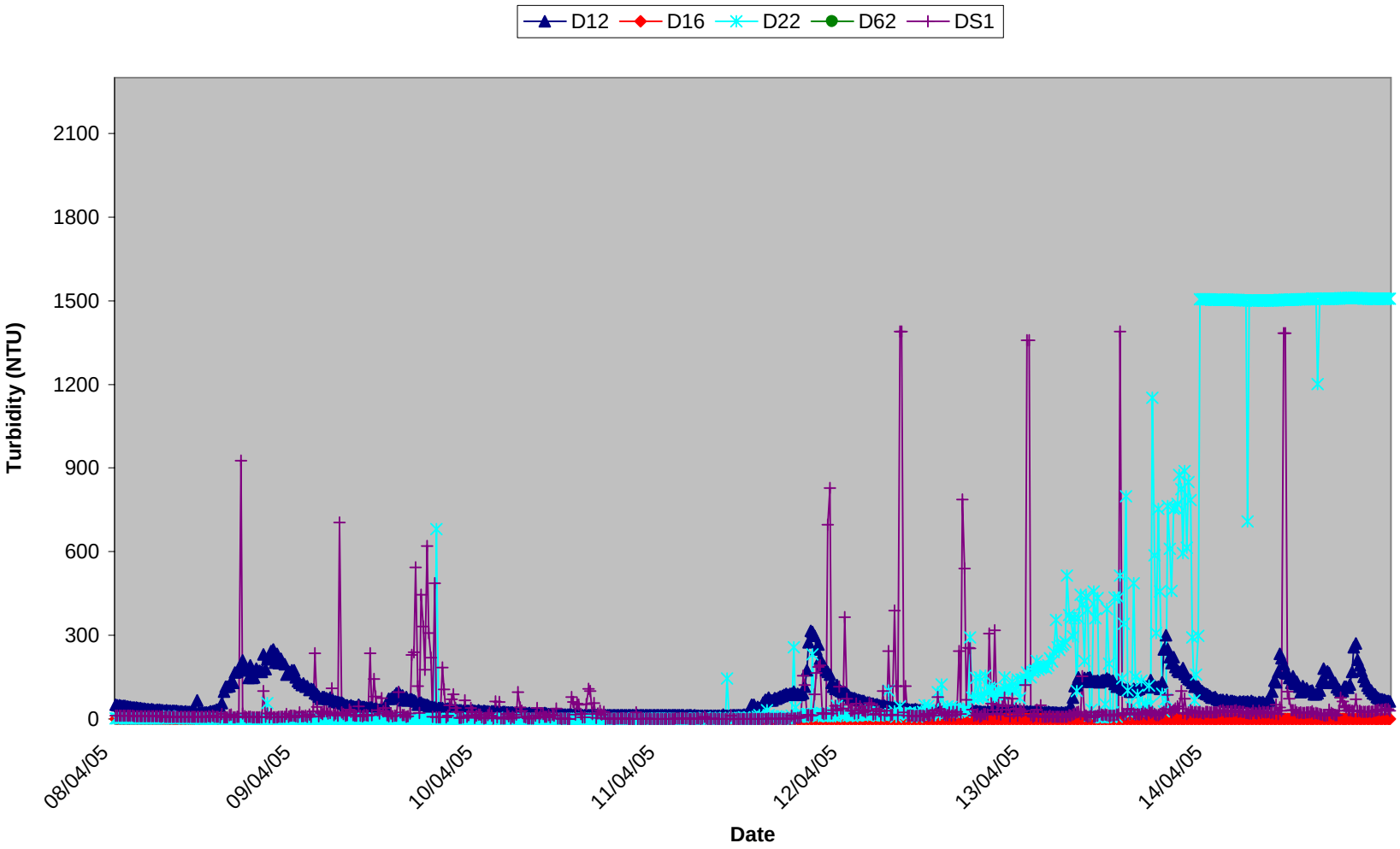


Surface Waters
Temperature, Week 15 2005

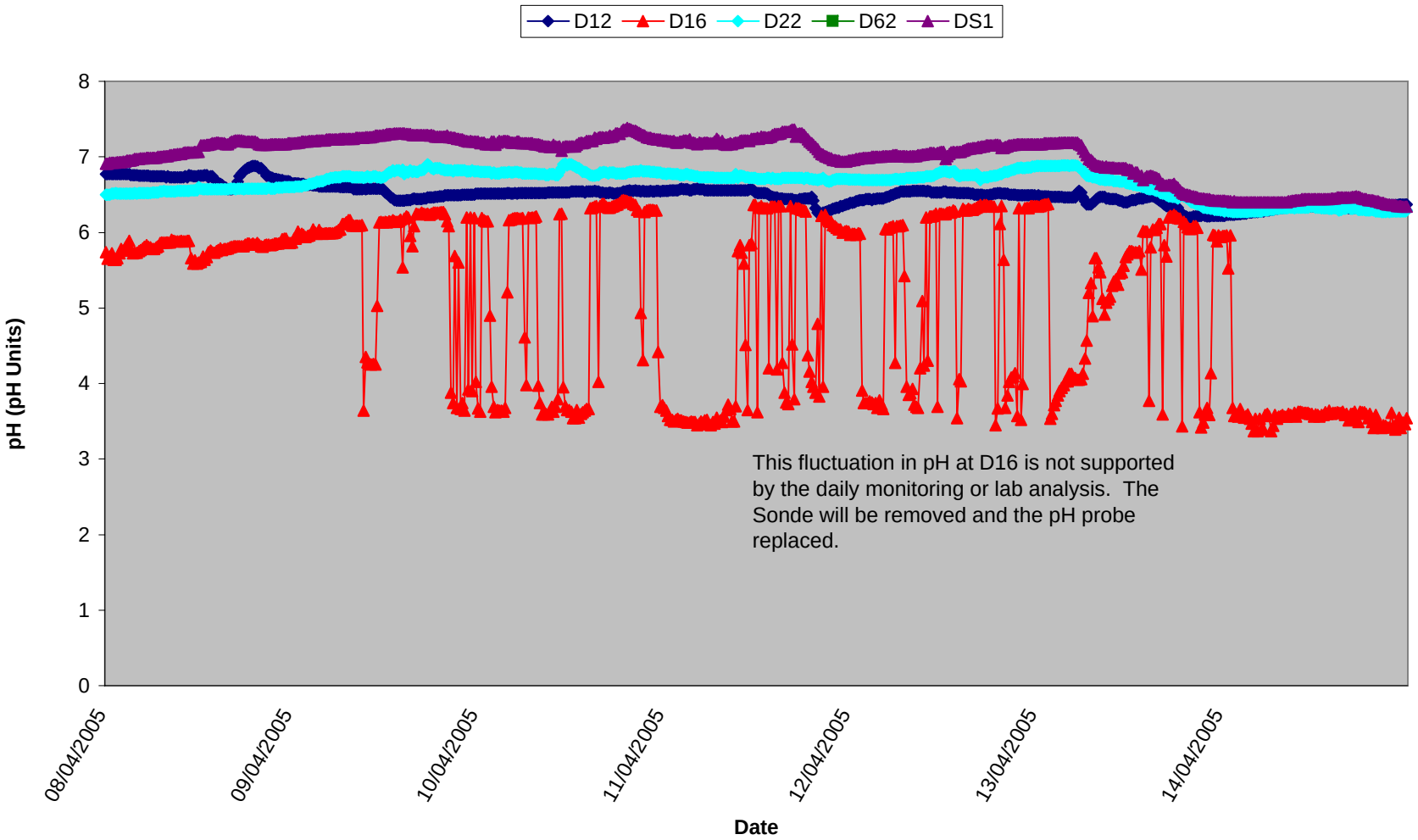


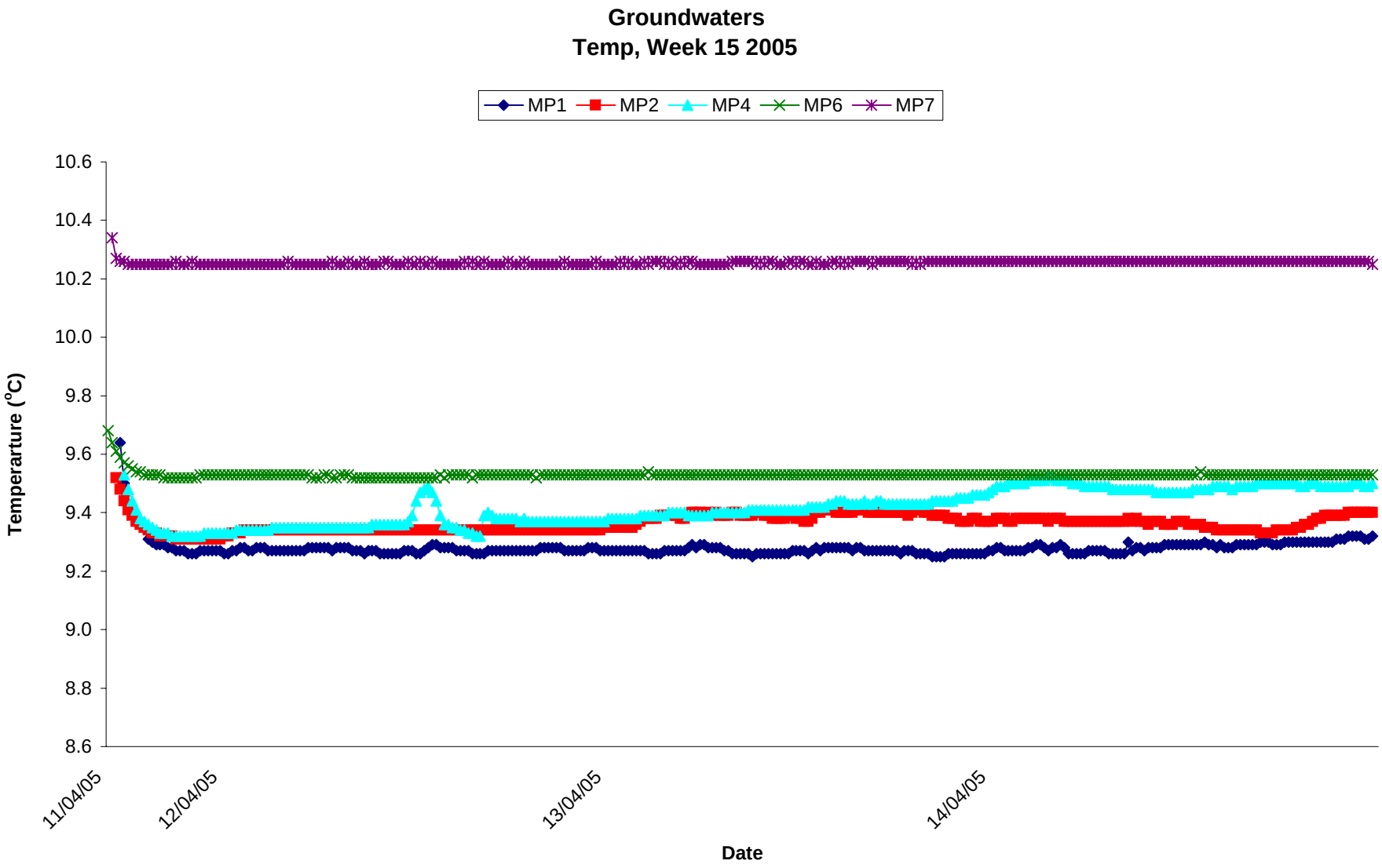

Surface Waters Conductivity,
Week 15 2005
D12
D16
D22
D62
DS1
Conductivity (mS/cm)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
08/04/05
09/04/05
10/04/05
11/04/05
12/04/05
13/04/05
14/04/05
Date

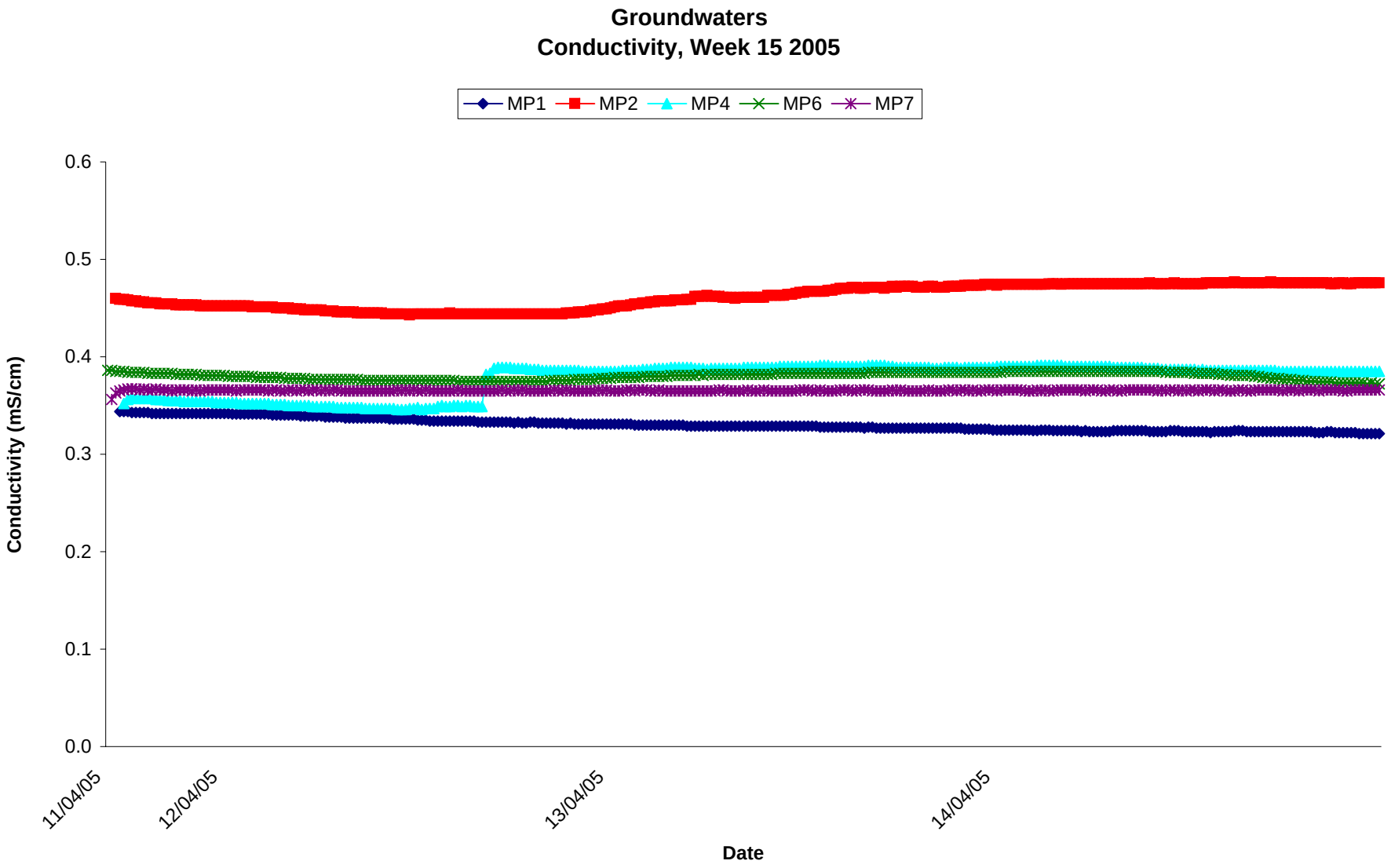
Surface Waters
Turbidity, Week 15 2005

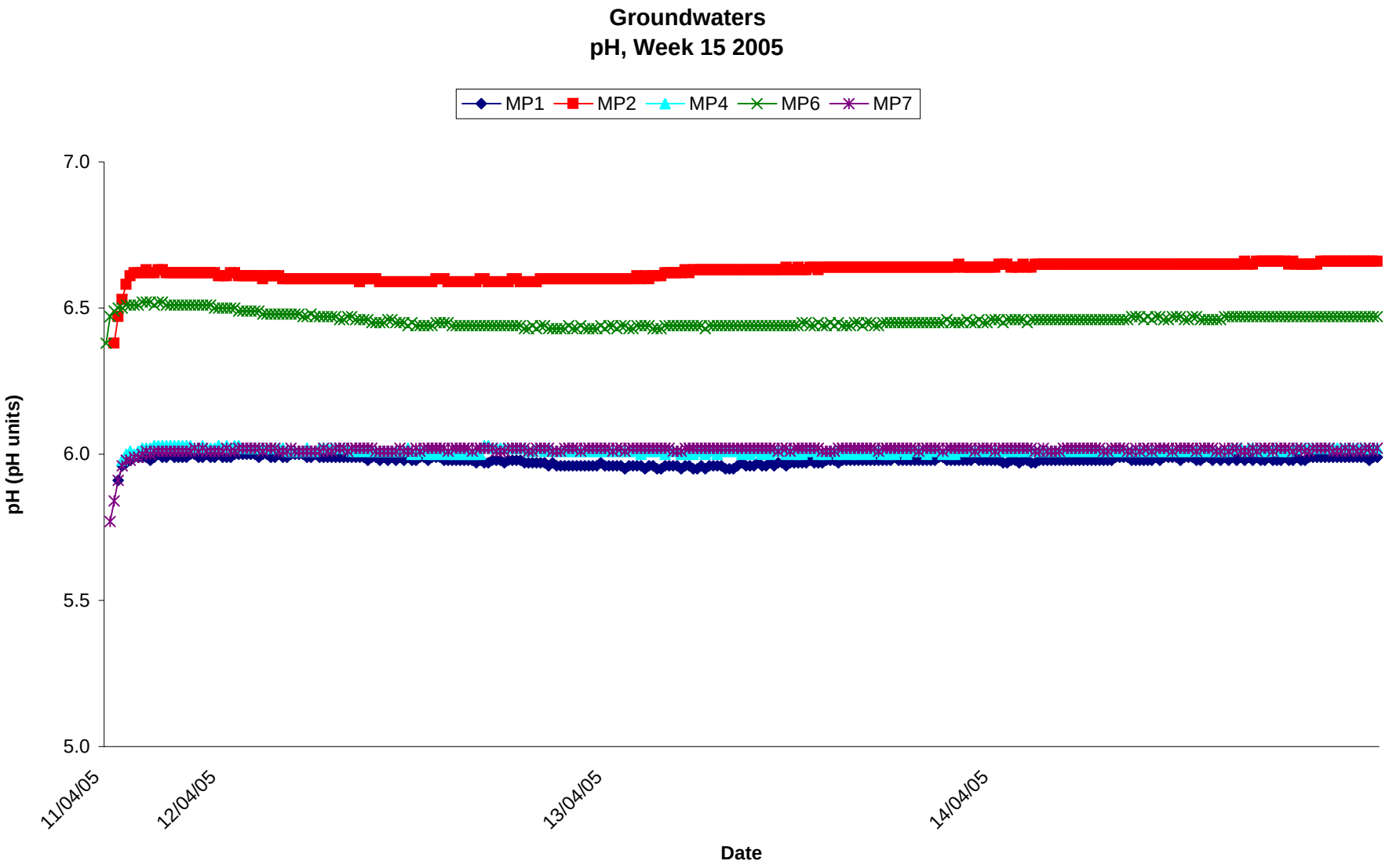


Surface Waters
pH, Week 15 2005




Groundwaters
Temp, Week 15 2005
MP1
MP2
MP4
MP6
MP7
10.6
10.4
10.2
10.0
9.8
9.6
9.4
9.2
9.0
8.8
8.6
Temperarture (°C)
11/04/05
12/04/05
13/04/05
14/04/05
Date


Groundwaters
Conductivity, Week 15 2005
MP1
MP2
MP4
MP6
MP7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Conductivity (mS/cm)
11/04/05
12/04/05
13/04/05
14/04/05
Date


Groundwaters
pH, Week 15 2005
MP1
MP2
MP4
MP6
MP7
7.0
6.5
6.0
5.5
5.0
pH (pH units)
11/04/05
12/04/05
13/04/05
14/04/05
Date