
MONTHLY ENVIRONMENTAL MONITORING REPORT

FEBRUARY 2012

FARO MINE COMPLEX – FARO, YT



PREPARED FOR:

Yukon Government
Department of Energy, Mines and Resources
Assessment and Abandoned Mines Branch
P.O. Box 2703
Whitehorse, YT
Y1A 2C6

PREPARED BY:

Denison Environmental Services
Faro Care and Maintenance Project
4109 4th Avenue
Suite 207
Whitehorse, YT
Y1A 1H6



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Denison
Environmental
Services
a division of Denison Mines Inc.

Cover photo of Grum Pit.
Photo taken by Tracey Parkin, Senior Environmental Technologist.

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1 Introduction

The environmental and structural/facilities monitoring activities that took place in February 2012 were listed in the February 2012 Monthly Activities' report, submitted by Denison Environmental Services (DES) to the Yukon Government in early March 2012. The routine water quality monitoring program (Appendix B of the Care and Maintenance contract, 2010 revised), which lists sites and parameters to be monitored, was implemented as of September 1, 2010. The results of monitoring performed in February 2012 are reported in this monitoring report.

Data assessments for compliance with Effluent Water Quality Standards, and of February data under the Adaptive Management Plan are also included.

2 Data Reported

Table 2-1 shows the various monitoring activities that were undertaken along with the name of the attached section in which the data is reported.

Table 2-1: Care and Maintenance and Adaptive Management Plan Environmental Monitoring Program – February 2012

	Frequency	Comments
Surface Water Quality (Appendices 1 & 2)	Monthly: February 2, 6, 7, 9, 13, 14, 16, 20, 21 & 27 Bi-Monthly: February 23	Routine water quality monitoring continued through February.
Surface Water Flow Rates (Appendix 5)	Monthly: February 2, 8, 9, 12, 14, 20, 21 & 27 Bi-Monthly: February 23	Routine flow monitoring continued through February.
Pit Elevations (Appendix 6)	Weekly: February 6, 13, 20 & 27 Bi-Monthly: February 13 & 27	Reported weekly through digital distribution list. Month end graphs included in Appendix 6.
Seepage Quality (Appendix 1 & 2)	Monthly: February 2, 6, 7, 16, 20, 21 & 27 Bi-Monthly: February 6 & 23	Routine water quality monitoring continued through February.
Seepage Flow Rates (Appendix 5)	Monthly: February 2, 6, 7, 16, 20, 21 & 27 Bi-Monthly: February 6 & 23 Weekly Weir: February 2, 9, 17 & 24	Routine flow monitoring continued through February.
Cross Valley Pond Monitoring and Assessment - Depth Profiles (Appendix 2)	Monthly Monitoring (at five locations in Pond): February 7	Profiles reported and reviewed internally on date of analysis.
Groundwater Quality (Appendix 2)	Monthly: February 6 & 7 Bi-Monthly: February 6 & 23	Routine water quality monitoring continued through February.

Table 2-1: Care and Maintenance and Adaptive Management Plan Environmental Monitoring Program – February 2012 (Cont'd)

	Frequency	Comments
Groundwater Flow Rates (Pumping Wells only) (Appendix 5)	Monthly: Continuous record totalizer read on March 1	Routine monitoring continued through February.
Terrestrial Monitoring (Appendix 7)	Wildlife Sightings: Log for month of February	On-going log as reported by all site staff.
Meteorological (Appendix 8)	Continuous Record: Loggers downloaded on March 1	February data reporting includes graphs of air temperature and precipitation and includes wind roses for both stations.
Geotechnical: Structures/Facilities Inspections (Appendix 9)	Monthly: February 27 & 28	Routine inspections continued through February.
Geotechnical: Pit Stability: Crest Regression Monitoring (Appendix 9)	Monthly: February 14 - Pictures of pit walls Monthly Grum Slope Stability Measurements: January 5	Monitoring results reported to Kohn Crippen Berger for assessment.

3 Additional Environmental Monitoring Activities

In addition to routine monitoring activities, environment staff were involved with the following activity:

- Snow surveys were carried out on February 22 to monitor snowpack for the determination of spring inflow volumes across the site.

4 Discharge Compliance

Tables A-1 and A-2, included in the Compliance Section (Appendix A), show a comparison of discharge water quality with Water Quality Effluent Standards, as listed in Appendix B of the Care and Maintenance contract.

For all parameters tested, the discharge water quality was compliant with the Water Quality Effluent Standards for January 2012, though colour at X13 on February 2, 2012 was equivalent to the effluent quality standard of 20 TCU.

5 Assessment under the Adaptive Management Plan

February water quality was assessed under the Adaptive Management Plan (AMP) Implementation Protocol. No new triggers were activated based on the February 2012 water quality assessment. The following provides a summary of the February AMP assessment, along with some discussion of the results.

5.1 AMP Event 2 – Degraded Water Quality in Vangorda Creek Downstream of Mine Facilities (V8)

The V8 TSS trigger was activated under the AMP in July 2011 following three consecutive results exceeding the threshold value of 8 mg/L, likely as a result of the landslide identified in 2010 in the West Fork of Vangorda Creek. This trigger was deactivated in October 2011, and has remained below the threshold value since, with a result in February 2012 of 1.6 mg/L. In addition, the trigger for statistically significant increasing trend for TSS at V8 that was deactivated in December 2011 remained deactivated through February 2012. TSS concentrations at V8 are shown in Figure 5-1.

The sulphate trigger for V8 has been deactivated since November 2011, and remained below the winter threshold (171 mg/L) in February 2012 with a result of 166 mg/L. The sulphate trigger at V8 has been activated on and off several times over the past few years and in 2011 sulphate concentrations were only below the threshold value four times: in January, June, November, and December. Sulphate concentrations at V8 are shown in Figure 5-2.

Zinc concentrations at V8 remained below the threshold value of 0.05 mg/L throughout 2011, and this has also been the case in 2012, with a total zinc result of 0.0105 mg/L in February 2012. Zinc concentrations at V8 are shown in Figure 5-3.

The total copper concentration in February 2012, 0.00058 mg/L, was well below the threshold limit of 0.023 mg/L.

Figure 5-1: TSS Concentrations at V8

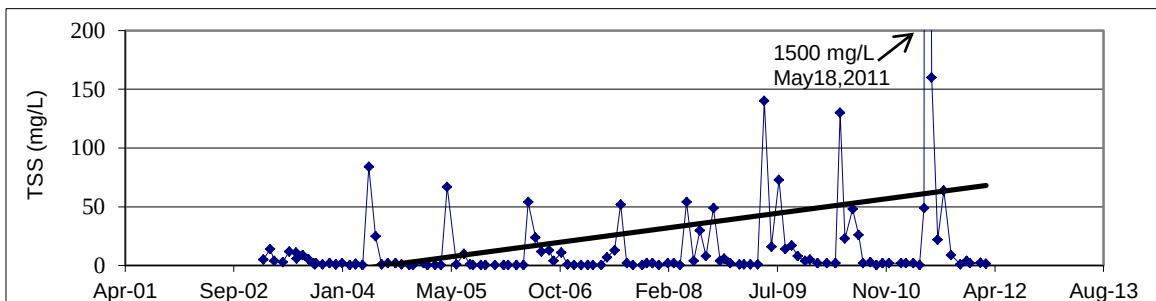


Figure 5-2: Sulphate Concentrations at V8

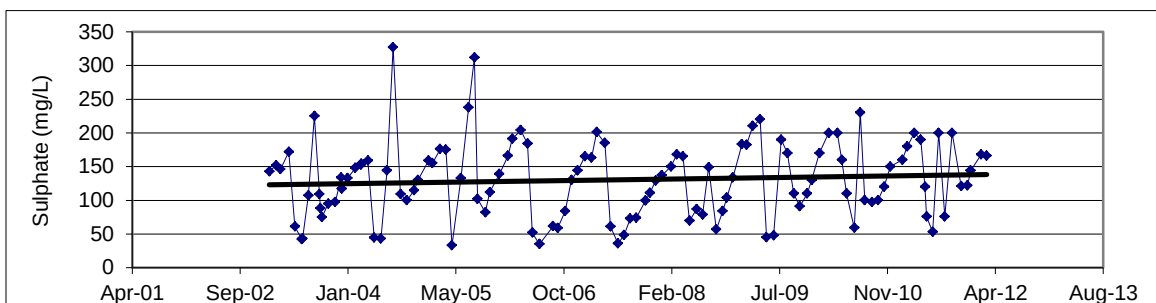
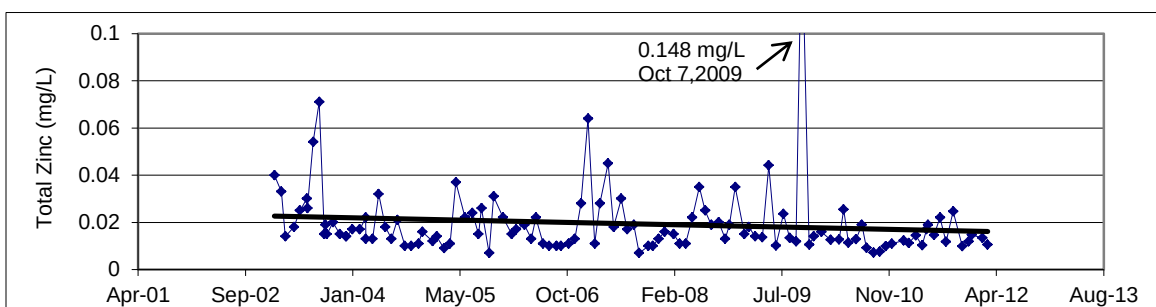


Figure 5-3: Zinc (Total) Concentrations at V8



5.2 AMP Event 3 – Degraded Water Quality in Rose Creek Downstream of Mine Facilities (X14)

The sulphate concentration at X14 in February 2012, 191 mg/L, exceeded the threshold value of 166 mg/L, despite no release of compliant discharge from the CVP. In addition, sulphate results continue to demonstrate a statistically significant increasing trend (expected exceedances

beginning in April 2007) as a result of seasonally high winter concentrations, and high concentrations during release of compliant discharge from the Cross Valley Pond. For this reason, sulphate at X14 remains triggered under the AMP for increasing trend as of February 2012. Sulphate concentrations at X14 are shown in Figure 5-4.

The total zinc concentration at X14 in February of 0.0289 mg/L was below the threshold value of 0.08 mg/L. An increasing trend for zinc is observed at the site, in part due to the periods of release of compliant discharge that, as of December 2011, has become statistically significant; however, as the projected trigger date is not until September, 2020 (more than 3 years from now), this trigger for zinc at X14 is not activated. Total zinc concentrations at X14 are shown in Figure 5-5.

The total copper concentration at X14 in February 2012 (0.00018 mg/L) was well below the threshold value of 0.022 mg/L, as has been the case for the past several years.

Figure 5-4: Sulphate Concentrations at X14 (Monthly Averages of Weekly Samples)

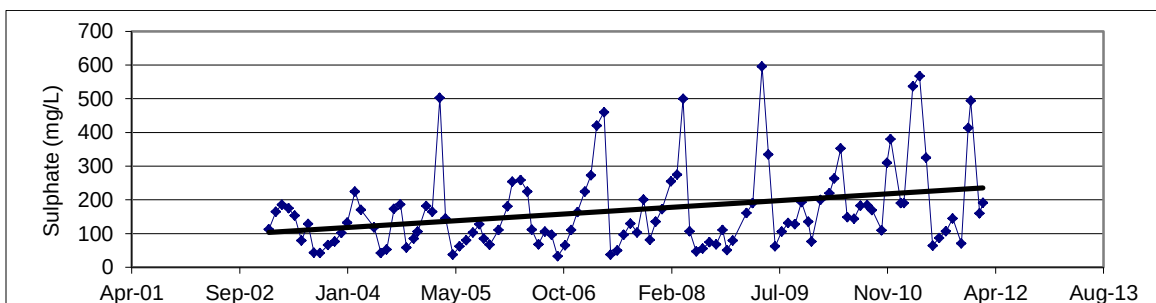
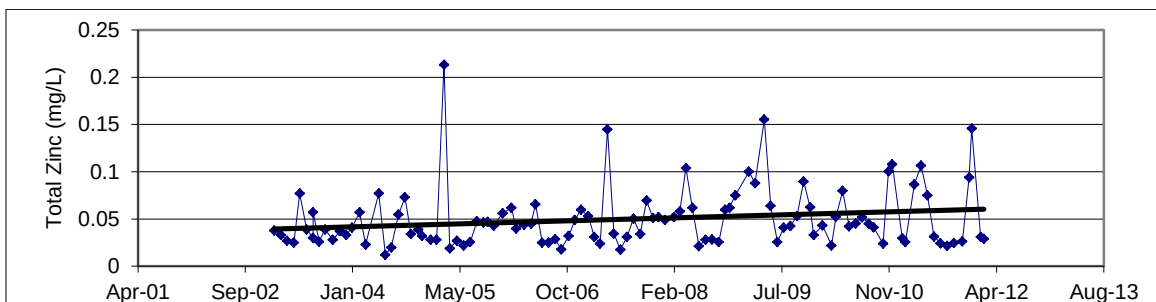


Figure 5-5: Zinc (Total) Concentrations at X14 (Monthly Averages of Weekly Samples)



5.3 AMP Event 4 – Degraded Seepage Quality from the Grum Rock Dump (V2)

Water seeping from the Grum Waste Rock pile is collected upgradient at V15 and flows are directed to Moose Pad Pond, via a drainage ditch. The flows at V2 represent water that flows from areas around / under the V15 area and collection ditch, including lower Grum Creek, and Tributary A.

V2 sulphate concentrations continue to exceed the threshold level of 553 mg/L and reached a new maximum as of March 3, 2011: 1400 mg/L. Sulphate in February 2012 was 917 mg/L. In addition, there is a significant increasing trend for sulphate at V2. As a result, the trigger for sulphate concentrations above the threshold value remains activated, in addition to the trigger for significant increasing trend.

In February 2012 the total zinc concentration was 0.0186 mg/L, well below the threshold value of 0.5 mg/L. Zinc concentrations are increasing at V2, but not significantly.

The copper concentration at V2 in February 2012 of 0.0011 mg/L was also well below the threshold value of 0.031 mg/L.

Figures 5-6 and 5-7, below, show the sulphate and zinc concentrations at V2, respectively.

Figure 5-6: Sulphate Concentrations at V2 (Monthly Averages of Twice Monthly Samples)

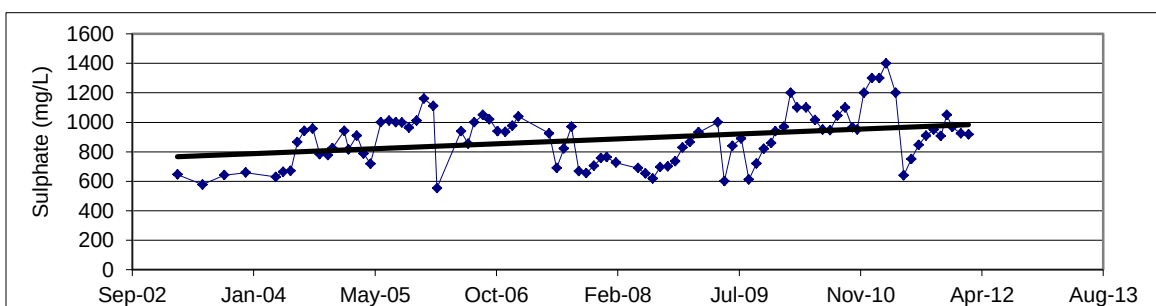
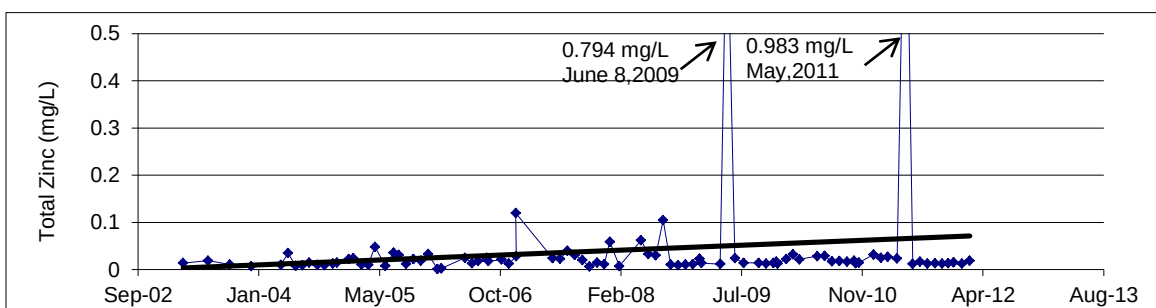


Figure 5-7: Zinc (Total) Concentrations at V2 (Monthly Averages of Twice Monthly Samples)



Early remediation work to cover the Grum Dump sulphide cells commenced in June 2010 and was implemented in part to reduce flows through the cells' downgradient areas, including via V15 and V2. Weekly monitoring of zinc concentrations and TSS was undertaken throughout the construction phase of the project at V15, and twice-monthly monitoring has continued in the post-construction phase. In addition, weekly monitoring of TSS and zinc concentrations at V15 and Grum Creek Weir, with analysis through the Faro Mine Complex Lab, was carried out in 2011 from April 25 through October 11.

Figures 5-8 to 5-11 show the dissolved zinc concentrations at V15, V2A, Moose Seep, and SRK05-9 (Moose Well 2) (note that the scale, y-axes only – of Figures 5-10 and 5-11 are compressed with respect to 5-8 and 5-9). At V2A in February 2012, no sample was collected as the site was frozen.

An additional monthly monitoring site, SRK GD01, was added as of December 2010 to monitor water quality in Grum Creek where it emerges from the waste rock dump. In February 2012, sulphate and dissolved zinc at SRK GD01 were 1640 mg/L and 1.07 mg/L, respectively.

Moose Seep and SRK05-9 are located along the infiltration flow path from Moose Pond to Vangorda Creek. February dissolved zinc at SRK05-9 averaged 0.0137 mg/L, while at Moose Seep it was 0.0144 mg/L. Both values were within range of historical values.

In addition to the Grum Dump cover installation, a pump and pipeline system to pump water from the V15 collection pond to the Vangorda Pit has been constructed. It is expected that this system will be operational later this year.

Figure 5-8: Zinc (Dissolved) Concentrations at V15

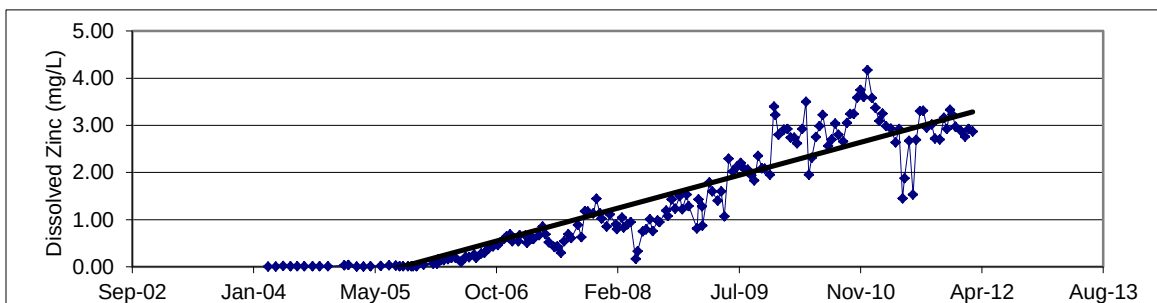


Figure 5-9: Zinc (Dissolved) Concentrations at V2A

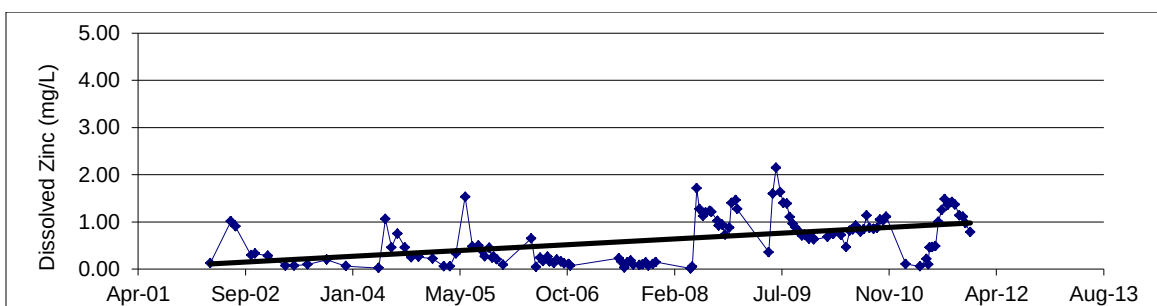


Figure 5-10: Zinc (Dissolved) Concentrations at Moose Seep

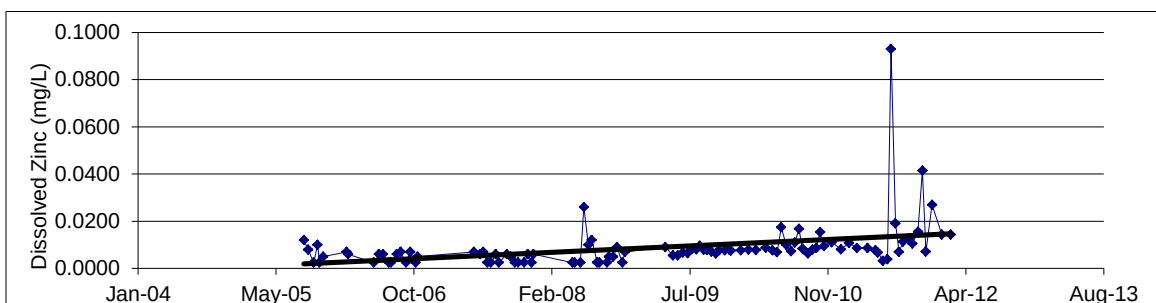
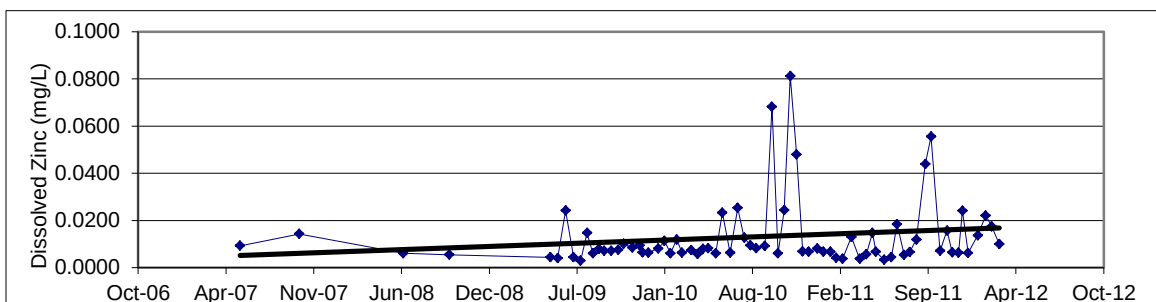


Figure 5-11: Zinc (Dissolved) Concentrations at SRK05-9 (Moose Well 2)

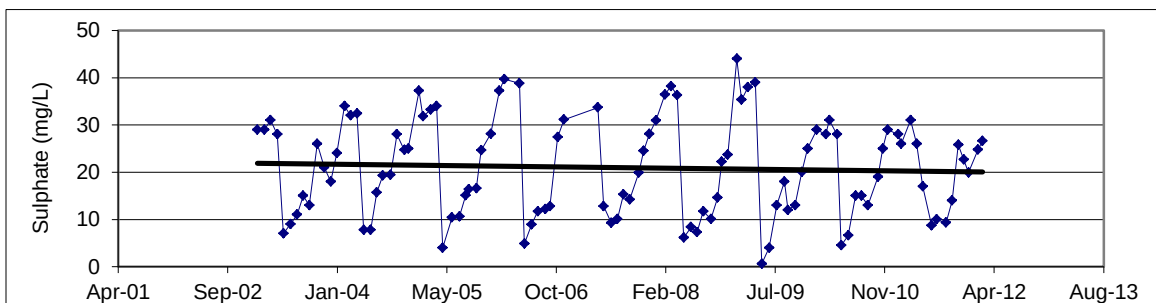


5.4 AMP Event 5 – Degraded Water Quality in the North Fork of Rose Creek (X2)

An AMP trigger was activated in the past based on increasing zinc concentrations at X2. In response, a trench and groundwater pumping system were installed in the S-Wells area. Pumping wells, commissioned in late February 2009, were installed to intercept groundwater prior to recharging to the North Fork of Rose Creek.

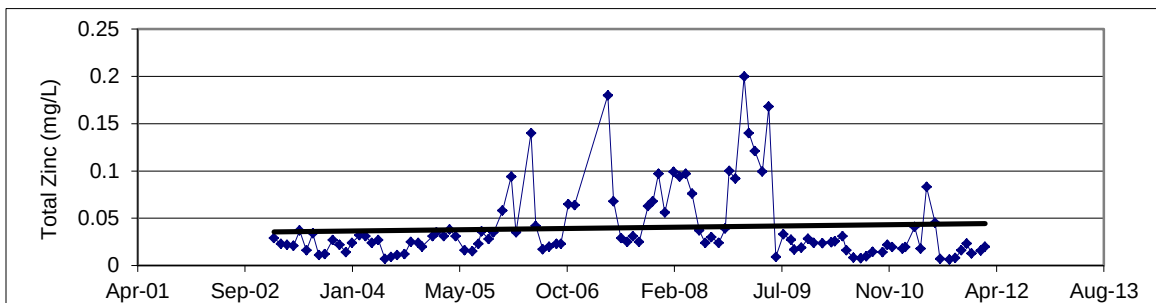
The sulphate concentration at X2 in February 2012, 26.6 mg/L, was below the winter season threshold value of 29.5 mg/L. Figure 5-12 shows sulphate concentrations at X2.

Figure 5-12: Sulphate Concentrations at X2



Zinc concentrations decreased to below the threshold value of 0.06 mg/L in June 2009, after the commissioning of the seepage interception and pumping system and remained below the threshold value, until May 2011 (0.083 mg/L). Since May, zinc concentrations have again remained below the threshold value, including for February 2012 in which the zinc result was 0.0198 mg/L. As with sulphate at this site, the trigger for zinc under the AMP is not activated as of February 2012. Zinc concentrations at X2 are shown in Figure 5-13.

Figure 5-13: Zinc (Total) Concentrations at X2



5.5 AMP Event 6 – Water Level in Grum Pit Reaches Maximum Desired Elevation

On October 11, 2011 the water level elevation reached 1210.849 masl, exceeding the trigger elevation of 1210.800 masl and triggering AMP Event 6. This trigger remains activated through February 2012, with an elevation of 1211.714 masl as of February 27th.

1 – COMPLIANCE

Table A-1. Faro Side: Comparison with Effluent Quality Standards*

Parameter	Effluent Quality Standard	X13
		2012.02.02
Total Suspended Solids	≤ 15 mg/L	14
pH	≥ 6.5 pH Units	6.67
Colour	≤ 20 Colour Units	20
Turbidity**	≤ 15 NTU	1.54
Ammonia (as N)	≤ 1.30 mg/L	0.88
Antimony	≤ 0.10 mg/L	<0.0001
Arsenic	≤ 0.05 mg/L	0.0017
Barium	≤ 1.00 mg/L	0.0473
Cadmium	≤ 0.02 mg/L	0.00045
Copper	≤ 0.20 mg/L	0.0009
Cyanide	≤ 0.05 mg/L	<0.005
Lead	≤ 0.20 mg/L	0.00047
Mercury	≤ 0.005 mg/L	<0.00005
Molybdenum	≤ 0.50 mg/L	0.0007
Nickel	≤ 0.50 mg/L	0.0408
Selenium	≤ 0.05 mg/L	<0.0002
Silver	≤ 0.10 mg/L	<0.00003
Zinc	≤ 0.50 mg/L	0.0508
Oil or Grease	Any visible or floating	No
Bioassay	Pass 100% 96-hour LC ₅₀ (%v/v)	N/A

* Standards as listed in Appendix B of Care and Maintenance Contract.

Units in mg/L with the exception of pH Units, NTU, and Colour Units.

** Turbidity measured by the Faro Mine Complex Lab

Table A-2. Vangorda Side: Comparison with Effluent Quality Standards*

Parameter	Effluent Quality Standard	V2	V25BSP
		2012.02.06	2012.02.27
Total Suspended Solids	≤ 15 mg/L	2	<1
pH	≥ 6.5 pH Units	8.11	7.76
Colour	≤ 20 Colour Units	<5.0	<5.0
Turbidity**	≤ 15 NTU	0.17	<0.10
Ammonia (as N)	≤ 1.30 mg/L	0.02	0.032
Antimony	≤ 0.10 mg/L	0.0002	0.00012
Arsenic	≤ 0.05 mg/L	0.001	0.00019
Barium	≤ 1.00 mg/L	0.0709	0.0263
Cadmium	≤ 0.02 mg/L	0.00022	0.000204
Copper	≤ 0.20 mg/L	0.0011	0.00122
Cyanide	≤ 0.05 mg/L	-	-
Lead	≤ 0.20 mg/L	0.00213	0.000032
Mercury	≤ 0.005 mg/L	<0.00005	<0.00001
Molybdenum	≤ 0.50 mg/L	0.0018	0.00054
Nickel	≤ 0.50 mg/L	0.0018	0.00073
Selenium	≤ 0.05 mg/L	0.0006	0.00065
Silver	≤ 0.10 mg/L	<0.00003	<0.000005
Zinc	≤ 0.50 mg/L	0.0186	0.0823
Oil or Grease	Any visible or floating	No	No
Bioassay	Pass 100% 96-hour LC ₅₀ (%v/v)	N/A	N/A

* Standards as listed in Appendix B of Care and Maintenance Contract.

Units in mg/L with the exception of pH Units, NTU, and Colour Units.

** Turbidity measured by the Faro Mine Complex Lab

2 – WATER QUALITY

CVP Profiles

Cross Valley Pond Water Quality Profile
February 7, 2012



Method of Analysis: ICP-OES

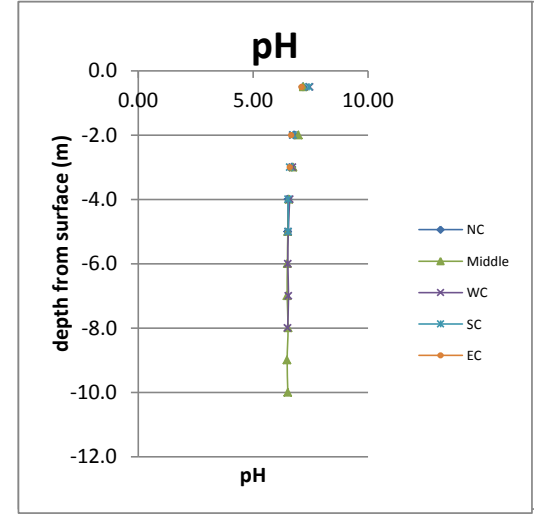
Site: NC

Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5	11:05 AM	0.0	7.17	2620		0.084	
-1.0							
-1.5							
-2.0	11:07 AM	1.2	6.79	2940		0.339	
-2.5							
-3.0	11:09 AM	2.5	6.69	3050			
-3.5							
-4.0	11:11 AM	4.4	6.52	3300		0.208	
-5.0	11:13 AM	4.1	6.51	3300			
-6.0							
-7.0							
-8.0							
-9.0							
-10.0							

Bottom @6.0m; 90 cm ice thickness

Site: NC-30

Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5							
-1.0							
-1.5							
-2.0							
-2.5							
-3.0							
-3.5							
-4.0							
-5.0							
-6.0							
-7.0							
-8.0							
-9.0							
-10.0							



Site: Middle

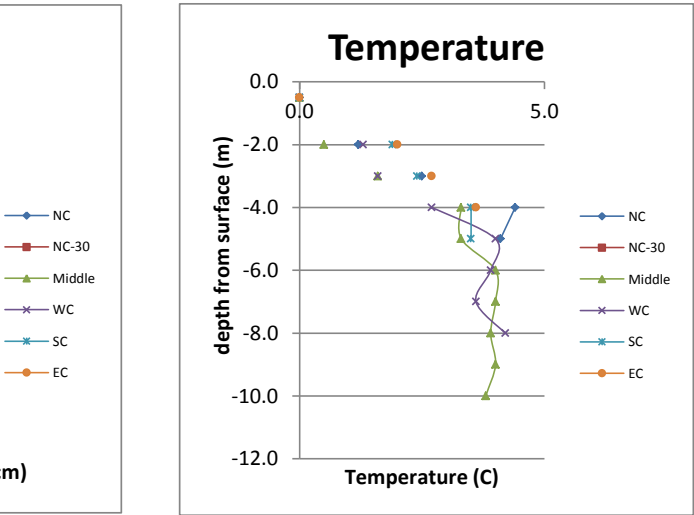
Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5	11:43 AM	0.0	7.19	2063		0.079	
-1.0							
-1.5							
-2.0	11:46 AM	0.5	6.98	2239		0.166	
-2.5							
-3.0	11:48 AM	1.6	6.74	2494			
-3.5							
-4.0	11:50 AM	3.3	6.56	2725		0.203	
-5.0	11:52 AM	3.3	6.51	2829			
-6.0	11:54 AM	4.0	6.49	2857		0.203	
-7.0	11:56 AM	4.0	6.48	2921			
-8.0	11:58 AM	3.9	6.52	2851		0.198	
-9.0	12:00 PM	4.0	6.48	2893			
-10.0	12:02 PM	3.8	6.51	2860		0.205	
-11.0	12:06 PM	4.1	6.48	2878			
-12.0	12:08 PM	2.9	6.55	2789		0.201	

Bottom @12.7m; 90cm ice thickness

Site: WC

Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5	12:36 PM	0.0	7.46	2091		0.130	
-1.0							
-1.5							
-2.0	12:38 PM	1.3	6.72	2537		0.181	
-2.5							
-3.0	12:40 PM	1.6	6.71	2551			
-3.5							
-4.0	12:42 PM	2.7	6.59	2726		0.157	
-5.0	12:44 PM	4.0	6.53	2812			
-6.0	12:46 PM	3.9	6.51	2863		0.171	
-7.0	12:48 PM	3.6	6.54	2872			
-8.0	12:50 PM	4.2	6.50	2831		0.167	
-9.0							
-10.0							

Bottom @9.8m; 90 cm ice thickness



Site: SC

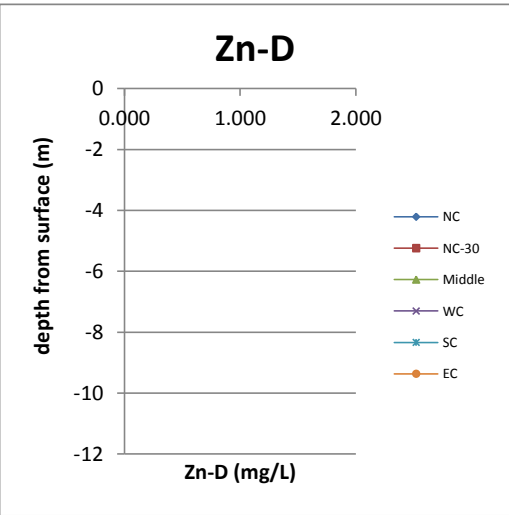
Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5	12:19 PM	0.0	7.4	1554		0.070	
-1.0							
-1.5							
-2.0	12:21 PM	1.9	6.7	2504		0.169	
-2.5							
-3.0	12:23 PM	2.4	6.6	2642			
-3.5							
-4.0	12:25 PM	3.5	6.53	2787		0.183	
-5.0	12:27 PM	3.5	6.53	2790			
-6.0							
-7.0							
-8.0							
-9.0							
-10.0							

Bottom @5.4m; 90 cm ice thickness

Site: EC

Δh	t	T	pH	EC (μS/cm)	Lab pH	Zn-T	Zn-D
-0.5	11:29 AM	0.0	7.10	2073		0.237	
-1.0							
-1.5							
-2.0	11:31 AM	2.0	6.65	2556		0.189	
-2.5							
-3.0	11:33 AM	2.7	6.59	2704			
-3.5							
-4.0	11:35 AM	3.6	5.53	2799		0.183	
-5.0							
-6.0							
-7.0							
-8.0							
-9.0							
-10.0							

Bottom @4.6m; 90 cm ice thickness



Water Quality

Table A-3: February 2012 Water Quality
 General Chemistry

Rose Creek Drainage																															
Station	Date	Sample Type	Acid(pH4.5) mg/L	Acid(pH8.3) mg/L	ALK mg/L	ALKPP mg/L	CaCO3 mg/L	CaCO3-d mg/L	Chloride mg/L	CN 4500 mg/L	CO3 mg/L	Colour TCU	COND µmho/cm	CONDf µS/cm	DOC mg/L	HCO3 mg/L as CaCO3	Ion Balance (blank)	NH3 mg/L	NO2 mg/L	NO2/3 mg/L	NO3 mg/L	OH mg/L	ORP mV	pH (blank)	pHF (blank)	SO4-d mg/L	TDS mg/L	TEMP-F °C	TOC mg/L	TSS mg/L	TURB NTU
A30	15/02/2012	Seepage	<0.5	8.3	20.50	<0.5		88.5	<0.5		<0.5		209.0	200.0		25.0	1.00					<0.5	95	7.28	6.64	74.10		1.4		<1.0	
ETA Combined	02/02/2012	Surface			<0.5	<0.5	4380.0	3980.0	11.0		<0.5		7660.0	8520.0		<0.5	0.89	2.000	0.006	0.033	0.027	<0.5		4.36	6.19	7740.00	9220	27.0		229.0	
FAROCR	14/02/2012	Surface			44.40	<0.5	45.2	46.3	0.6		<0.5		95.0	112.0	1.52	54.1	1.00	0.021	<0.005	0.074	0.074	<0.5		7.75	7.59	5.58	58	<0.0	1.69	<1.0	0.23
FCS-4	02/02/2012	Surface			<0.5	<0.5	4320.0	4060.0	13.0		<0.5		7200.0	7950.0		<0.5	0.91	1.400	<0.005	0.035	0.035	<0.5		4.24	6.91	6810.00	9300	1.3		278.0	
FD-40	15/02/2012	Seepage	<0.5	160.0	0.87	<0.5		755.0	<0.5		<0.5		1470.0	178.0		1.1	1.00					<0.5	153	5.04	5.37	890.00		2.2		11.7	
NF2	13/02/2012	Surface			126.00	<0.5	145.0	147.0	0.8		<0.5		281.0	310.0	1.91	154.0	1.10	0.025	<0.005	0.280	0.280	<0.5		7.68	7.93	20.20	182	0.1	1.25	<1.0	0.88
NFRC SC-1	13/02/2012	Surface			127.00	<0.5	147.0	151.0	0.9		<0.5		282.0	300.0	0.80	155.0	1.10	0.028	<0.005	0.269	0.269	<0.5		7.66	7.75	20.10	150	<0.0	0.89	<1.0	1.06
NFRC SC-2	09/02/2012	Surface			126.00	<0.5	139.0	147.0	1.5		<0.5		287.0	242.0	1.48	154.0	1.00	0.074	<0.005	0.261	0.261	<0.5		7.77	7.40	20.10	146	<0.0	1.79	<1.0	0.87
NFRC SC-3	09/02/2012	Surface			126.00	<0.5	136.0	143.0	<0.5		<0.5		289.0	296.0	1.62	154.0	1.00	0.080	<0.005	0.260	0.260	<0.5		7.75	6.82	20.40	158	<0.0	1.74	<1.0	0.86
NFRC SC-4	09/02/2012	Surface			128.00	<0.5	146.0	147.0	<0.5		<0.5		291.0	299.0	0.51	156.0	1.00	0.029	<0.005	0.262	0.262	<0.5		7.79	7.34	21.70	148	0.1	1.22	<1.0	0.97
R10	14/02/2012	Surface			125.00	<0.5	142.0	145.0	0.9		<0.5		273.0	270.0	1.36	153.0	1.00	0.024	<0.005	0.291	0.291	<0.5		8.08	7.22	19.50	142	<0.0	0.97	<1.0	0.83
R7	14/02/2012	Surface			125.00	<0.5	131.0	136.0	0.8		<0.5		251.0	266.0	1.64	152.0	1.00	0.021	<0.005	0.166	0.166	<0.5		7.90	7.89	8.92	146	0.0	1.99	<1.0	0.87
R8	14/02/2012	Surface			122.00	<0.5	123.0	130.0	0.7		<0.5		247.0	241.0	1.28	148.0	1.00	0.027	<0.005	0.166	0.166	<0.5		7.95	7.18	9.11	136	<0.0	1.21	<1.0	0.88
R9	14/02/2012	Surface			124.00	<0.5	144.0	142.0	0.8		<0.5		267.0	283.0	1.11	152.0	1.00	0.028	<0.005	0.268	0.268	<0.5		7.94	7.73	18.80	176	<0.0	0.91	<1.0	0.97
SRK08-SPW1	07/02/2012	Ground	<0.5	190.0	285.00	<0.5		609.0	2.9		<0.5		1120.0	1300.0		347.0	1.10					<0.5		6.61	6.22	343.00		2.0		28.7	
SRK08-SPW2	07/02/2012	Ground	<0.5	371.0	214.00	<0.5		3580.0	4.5		<0.5		5050.0	5450.0		261.0	0.91					<0.5		6.87	5.93	4110.00		3.2		2.2	
SRK08-SPW3	07/02/2012	Ground	<0.5	612.0	222.00	<0.5		5060.0	6.3		<0.5		6790.0	7450.0		271.0	0.88					<0.5		6.92	6.08	6230.00		3.7		8.3	
X10	07/02/2012	Surface			135.00	<0.5	154.0	150.0	<0.5		<0.5		310.0	320.0	1.06	165.0	0.96	0.027	<0.005	0.251	0.251	<0.5		8.10	8.03	28.20	158	0.5	1.00	<1.0	1.21
X13	02/02/2012	Seepage	<0.5	25.9	353.00	<0.5		1560.0	2.1	<0.005	<0.5	20.0	2400.0	2590.0		430.0	1.00	0.880				<0.5	31	7.89	6.67	1240.00		1.9		13.7	1.54
X14	02/02/2012	Surface			165.00	<0.5	341.0	342.0	<0.5		<0.5		683.0	681.0	1.83	201.0	1.00	0.100	<0.05	0.213	0.213	<0.5		8.08	7.65	191.00	440	1.7	2.01	1.3	1.71
X2	07/02/2012	Surface			128.00	<0.5	147.0	151.0	<0.5		<0.5		294.0	290.0	1.07	156.0	1.00	0.023	<0.005	0.257	0.257	<0.5		8.03	7.76	26.60	158	<0.0	1.08	1.6	1.12
X22b	06/02/2012	Surface			79.20	<0.5	722.0	711.0	1.5		<0.5		1350.0	1163.0		96.7	0.97	0.820	0.006	0.517	0.510	<0.5		7.59	7.44	722.00	1040	0.3		<1.0	
X3	07/02/2012	Surface			128.00	<0.5	145.0	150.0	<0.5		<0.5		294.0	310.0	1.46	156.0	1.00	0.076	<0.005	0.245	0.245	<0.5		8.05	7.60	27.70	168	<0.0	1.41	<1.0	1.05
X3A	07/02/2012	Surface			129.00	<0.5	149.0	146.0	<0.5		<0.5		297.0	290.0	0.80	157.0	0.98	0.032	<0.005	0.238	0.238	<0.5		8.00	7.73	26.70	160	0.1	1.70	<1.0	1.14
X4	06/02/2012	Surface			22.30	<0.5	676.0	670.0	3.1		<0.5		1380.0	1416.0		27.2	1.10	0.230	0.012	0.124	0.112	<0.5		6.22	6.20	788.00	1220	0.8		31.0	
X5P	06/02/2012	Surface			367.00	<0.5	1380.0	1320.0	2.2		<0.5		2220.0	1883.0		447.0	0.93	0.840	<0.005	0.178	0.178	<0.5		7.78	6.95	1140.00	1910	0.0		2.6	
Vangorda Creek Drainage																															
MOOSE SEEP	06/02/2012	Seepage	<0.5	13.3	349.00	<0.5		1480.0	0.9		<0.5		2170.0	1672.0		426.0	1.00					<0.5	132	8.24	7.92	1100.00		<0.0		3.6	
SRK GD01	27/02/2012	Seepage	<0.5	14.8	517.00	<0.5		2390.0	2.6		<0.5		3220.0	2060.0		631.0	1.10					<0.5	119	8.26	7.79	1640.00		2.2		1.7	
SRK05-9	06/02/2012	Ground	<0.5	20.4	356.00	<0.5		1460.0	1.5		<0.5		2220.0	1649.0		434.0	0.97					<0.5		8.16	7.63	1120.00		1.0		214.0	
SRK05-9	23/02/2012	Ground	<0.5	<0.5	337.00	<0.5		1400.0	1.6		<0.5		2090.0	2410.0		411.0	1.00					<0.5		8.25	7.62	1010.00		2.2		57.7	
V1	27/02/2012	Surface			46.00	<0.5	54.1	54.9	<0.5		<0.5		118.0	125.0	1.14	56.2	1.00	0.023	<0.005	0.121	0.121	<0.5		7.94	7.97	11.10	64	0.0	0.91	<1.0	0.12
V15	06/02/2012	Seepage	<0.5	48.7	520.00	<0.5		2650.0	1.6		<0.5		3520.0	2666.0		634.0	1.10					<0.5	154	7.89	6.98	1940.00		0.9		<1.0	
V15	23/02/2012	Seepage	<0.5	22.1	522.00	<0.5		2570.0	2.3		<0.5		3450.0	3910.0		636.0	1.10					<0.5	133	8.28	7.04	1840.00		0.8		1.6	
V2	06/02/2012	Surface			331.00	1.8	1300.0	1250.0	0.7		2.20	<5.0	1980.0	1517.0	2.48	399.0	0.98	0.022	<0.005	4.270	4.270	<0.5		8.31	8.11	917.00	1680	<0.0	2.59	1.6	0.17
V25BSP	27/02/2012	Surface			74.60	<0.5	586.0	599.0	0.9		<0.5	<5.0	1070.0	660.0		91.0	1.00	0.032	<0.005	0.147	0.147	<0.5		7.98	7.76	492.00	832	0.2		<1.0	0.10
V27	21/02/2012	Surface			116.00	<0.5	326.0	326.0	1.0		<0.5		607.0	640.0	1.81	141.0	1.10	0.019	<0.005	0.689	0.689	<0.5		8.08	8.02	178.00	406	0.1	1.46	<1.0	0.08
V4	21/02/2012	Surface			316.00	<0.5	403.0	411.0	1.0		<0.5		683.0	775.0	3.81	386.0															

Table A-4: February 2012 Water Quality
Dissolved Metals

Rose Creek Drainage																																				
Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
A30	15/02/2012	Seepage	<0.02	17.50	<0.1	18.3	<50.0	<0.1	<1.0	18.20	2.47	<0.5	<1.0	10.10	<5.0		0.79	0.0087	10.50	11.90	<1.0	2.46	14.90	2.530	<0.5	28.1	0.14	5700	<5.0	76.2	<5.0	<0.05	0.140	<5.0	4630.0	<0.5
ETA Combined	02/02/2012	Surface	0.200	922.00	35.70	11.7	<1000.0	0.90	<0.1	443.00	12.90	1060.00	<2.0	6.82	1200000		14.00	0.1370	699.00	85400.00	<1.0	71.00	919.00	1.400	<0.4	2420.0	<0.8	14800	<4.0	3930.0	<10.0	0.270	4.570	<4.0	449000.0	<2.0
FAROCR	14/02/2012	Surface	<0.005	10.40	0.42	27.2	<50.0	<0.01	<0.005	13.30	0.03	0.02	<0.1	0.58	4		0.47	0.0036	3.19	1.46	0.95	2.49	1.05	0.303	0.07	<10.0	0.70	7500	<0.2	59.6	<0.5	0.005	0.957	<0.2	4.8	<0.1
FCS-4	02/02/2012	Surface	0.200	105.00	4.90	11.5	<1000.0	<0.2	<0.1	447.00	12.30	848.00	<2.0	5.00	870000		13.00	0.1400	715.00	80100.00	<1.0	69.00	784.00	<0.1	<0.4	2160.0	<0.8	11800	<4.0	3790.0	<10.0	0.340	5.470	<4.0	359000.0	<2.0
FD-40	15/02/2012	Seepage	0.100	4680.00	0.71	12.0	160.0	4.92	<2.5	130.00	125.00	141.00	<2.5	741.00	24		2.37	0.0380	104.00	5950.00	<2.5	5.57	297.00	17.400	<1.3	323.0	0.34	15500	<13.0	424.0	<13.0	<0.13	4.050	<13.0	91500.0	<1.3
NF2	13/02/2012	Surface	0.035	3.90	0.40	68.0	<50.0	<0.01	<0.005	44.60	0.03	0.11	<0.1	1.19	52		2.19	0.0073	8.75	32.30	0.79	4.59	0.53	0.166	0.06	<10.0	0.44	6430	<0.2	177.0	<0.5	<0.002	2.250	<0.2	26.2	<0.1
NFRC SC-1	13/02/2012	Surface	<0.005	4.80	0.35	68.9	<50.0	<0.01	<0.005	45.50	0.02	0.10	<0.1	0.36	65		1.16	0.0071	9.02	31.90	1.36	3.20	0.44	0.073	0.07	<10.0	0.46	6600	<0.2	176.0	<0.5	<0.002	2.300	<0.2	19.0	<0.1
NFRC SC-2	09/02/2012	Surface	0.006	3.60	0.43	72.9	<50.0	<0.01	<0.005	43.50	0.04	0.15	<0.1	1.16	104		2.03	0.0075	9.42	51.00	0.77	3.48	0.70	0.257	0.07	<10.0	0.44	6010	<0.2	186.0	<0.5	0.003	2.300	<0.2	22.0	<0.1
NFRC SC-3	09/02/2012	Surface	<0.005	5.60	0.35	72.8	<50.0	<0.01	<0.005	42.10	0.08	0.11	<0.1	0.65	87		1.04	0.0075	9.07	36.40	0.78	3.18	0.62	0.616	0.07	<10.0	0.42	5920	<0.2	184.0	<0.5	0.003	2.280	<0.2	27.3	<0.1
NFRC SC-4	09/02/2012	Surface	<0.005	4.00	0.33	72.0	<50.0	<0.01	<0.005	43.40	0.03	0.16	<0.1	0.51	81		1.09	0.0075	9.35	50.90	0.79	3.33	0.60	0.288	0.06	<10.0	0.44	6090	<0.2	183.0	<0.5	0.003	2.270	<0.2	28.1	<0.1
R10	14/02/2012	Surface	0.012	3.50	0.39	68.5	<50.0	<0.01	<0.005	43.50	0.02	0.05	<0.1	0.35	32		1.27	0.0068	8.91	19.30	0.82	3.29	0.32	0.078	0.06	<10.0	0.45	6390	<0.2	171.0	<0.5	<0.002	2.280	<0.2	10.5	<0.1
R7	14/02/2012	Surface	<0.005	6.30	0.37	68.5	<50.0	<0.01	<0.005	42.10	0.01	0.02	<0.1	0.30	30		1.01	0.0068	7.64	15.50	0.77	2.99	0.18	0.165	0.06	<10.0	0.41	6440	<0.2	159.0	<0.5	<0.002	2.050	<0.2	3.5	<0.1
R8	14/02/2012	Surface	0.020	3.80	0.40	67.6	<50.0	<0.01	<0.005	40.40	0.02	0.03	<0.1	0.42	38		1.19	0.0066	7.06	20.70	0.75	3.07	0.30	0.194	0.06	<10.0	0.40	6510	<0.2	155.0	<0.5	<0.002	2.030	<0.2	8.1	<0.1
R9	14/02/2012	Surface	<0.005	3.30	0.40	67.7	<50.0	<0.01	<0.005	42.40	0.01	0.02	<0.1	0.24	28		1.10	0.0069	8.82	13.20	0.76	3.11	0.23	0.050	0.06	<10.0	0.45	6210	<0.2	169.0	<0.5	<0.002	2.290	<0.2	1.3	<0.1
SRK08-SPW1	07/02/2012	Ground	<0.02	40.00	4.19	14.4	<50.0	1.01	<1.0	151.00	0.16	9.87	<1.0	0.98	26700		5.14	0.0623	56.40	1420.00	<1.0	10.40	24.90	0.420	<0.5	133.0	<0.1	16800	<5.0	667.0	<5.0	<0.05	0.760	<5.0	1500.0	<0.5
SRK08-SPW2	07/02/2012	Ground	<0.2	42.00	1.80	27.0	<500.0	<1.0	<10.0	333.00	51.20	321.00	<10.0	<2.0	4080		10.20	0.1120	667.00	53800.00	<10.0	27.90	1120.00	<2.0	<5.0	1430.0	<1.0	12500	<50.0	1430.0	<50.0	<0.5	4.400	<50.0	208000.0	<5.0
SRK08-SPW3	07/02/2012	Ground	<0.2	49.00	1.30	23.0	<500.0	<1.0	<10.0	396.00	173.00	570.00	<10.0	12.60	1940		12.80	0.1370	990.00	95000.00	<10.0	33.10	2180.00	3.600	<5.0	2110.0	<1.0	13200	<50.0	1780.0	<50.0	<0.5	5.300	<50.0	404000.0	<5.0
X10	07/02/2012	Surface	<0.005	8.10	0.20	68.2	<50.0	<0.01	0.084	42.90	0.03	0.06	<0.1	2.69	69		1.17	0.0062	10.40	27.80	0.67	3.23	0.70	2.240	0.09	<10.0	0.44	5140	<0.2	191.0	<0.5	0.003	2.380	<0.2	40.0	<0.1
X13	02/02/2012	Seepage	<0.03	7.00	1.70	47.3	<300.0	<0.05	<0.03	459.00	0.45	22.40	<0.5	0.90	6100	<0.05	6.70	0.0180	101.00	27800.00	0.70	35.70	40.80	0.470	<0.1	496.0	<0.2	8420	<1.0	1150.0	<3.0	0.030	7.810	<1.0	50.8	<0.5
X14	02/02/2012	Surface	<0.005	2.00	0.25	63.9	<50.0	<0.01	<0.005	101.00	0.07	1.80	<0.1	0.32	277		1.94	0.0078	22.20	2900.00	0.70	7.22	5.04	0.136	0.07	72.0	0.42	5800	<0.2	307.0	<0.5	0.005	3.030	<0.2	28.9	<0.1
X2	07/02/2012	Surface	<0.005	7.70	0.33	68.7	<50.0	<0.01	0.008	44.70	0.07	0.20	<0.1	1.35	81		1.14	0.0075	9.65	80.70	0.81	3.38	0.76	0.976	0.09	<10.0	0.44	6280	<0.2	183.0	<0.5	0.003	2.510	<0.2	42.0	<0.1
X22b	06/02/2012	Surface	<0.03	8.00	0.20	16.3	<300.0	0.11	<0.03	148.00	22.30	57.20	<0.5	20.60	<5.0		8.10	0.0560	82.90	3420.00	0.40	19.40	143.00	0.460	0.20	262.0	0.30	4840	<1.0	620.0	<3.0	0.450	0.790	<1.0	23500.0	<0.5
X3	07/02/2012	Surface	<0.005	6.60	0.29	68.8	<50.0	<0.01	0.024	44.60	0.07	0.12	<0.1	0.63	73		1.19	0.0062	9.44	58.80	0.71	3.40	0.64	1.020	0.08	<10.0	0.41	6140	<0.2	194.0	<0.5	<0.002	2.710	<0.2	35.1	<0.1
X3A	07/02/2012	Surface	<0.005	7.00	0.28	71.6	<50.0	<0.01	0.021	42.70	0.03	0.10	<0.1	0.54	67		1.16	0.0060	9.53	62.70	0.66	3.16	0.55	1.210	0.07	<10.0	0.40	5600	<0.2	194.0	<0.5	<0.002	2.700	<0.2	19.9	<0.1
X4	06/02/2012	Surface	<0.03	2.00	0.30	15.3	<300.0	<0.05	<0.03	201.00	2.28	78.90	<0.5	<0.3	92800		3.90	0.0160	40.80	19300.00	<0.3	11.40	65.50	0.040	<0.1	267.0	<0.2	6070	<1.0	642.0	<3.0	0.350	1.140	<1.0	11900.0	<0.5
X5P	06/02/2012	Surface	<0.03	2.00	0.40	45.3	<300.0	<0.05	<0.03	384.00	0.15	31.90	<0.5	0.80	759		7.10	0.0170	88.																	

Table A-5: February 2012 Water Quality
Total Metals

Rose Creek Drainage																																					
Station	Date	Sample Type	Ag µg/L	Al µg/L	As µg/L	B µg/L	Ba µg/L	Be µg/L	Bi µg/L	Ca mg/L	Cd µg/L	Co µg/L	Cr µg/L	Cu µg/L	Fe µg/L	Hg µg/L	K mg/L	Li mg/L	Mg mg/L	Mn µg/L	Mo µg/L	Na mg/L	Ni µg/L	P mg/L	Pb µg/L	S mg/L	Sb µg/L	Se µg/L	Si µg/L	Sn µg/L	Sr µg/L	Ti µg/L	Tl µg/L	U µg/L	V µg/L	Zn µg/L	Zr µg/L
ETA Combined	02/02/2012	Surface	<0.3	1520.0	40.00	<3000.0	14.0	0.80	<0.3	492.0	13.50	1150.00	<5.0	<3.0	1300000		16.00	0.1480	766.00	97800.00	4.00	76.00	974.00		20.900	2350.0	<1.0	<2.0	15600	<10.0	4360.0	<30.0	0.300	6.300	<10.0	531000.0	<5.0
FAROCR	14/02/2012	Surface	<0.005	17.4	0.43	<50.0	27.1	<0.01	<0.005	13.0	0.03	0.02	<0.1	0.85	12		0.45	0.0036	3.11	0.22	0.94	2.43	1.01		0.529	<10.0	0.07	0.69	7460	<0.2	59.1	<0.5	0.005	0.960	<0.2	4.0	<0.1
FCS-4	02/02/2012	Surface	<0.3	1090.0	25.00	<3000.0	13.0	0.70	<0.3	470.0	14.30	908.00	<5.0	7.00	925000		15.00	0.1390	764.00	90100.00	<3.0	72.00	831.00		47.700	2150.0	<1.0	<2.0	13300	<10.0	4140.0	<30.0	0.400	6.700	<10.0	429000.0	<5.0
NF2	13/02/2012	Surface	<0.005	8.2	0.47	<50.0	70.2	<0.01	<0.005	43.6	0.02	0.11	<0.1	0.25	132		1.08	0.0072	8.72	31.70	0.76	3.08	0.37		0.291	<10.0	0.06	0.45	6410	<0.2	176.0	<0.5	<0.002	2.280	<0.2	13.4	<0.1
NFRC SC-1	13/02/2012	Surface	<0.005	10.4	0.54	<50.0	70.1	<0.01	<0.005	44.0	0.02	0.12	<0.1	0.40	140		1.12	0.0070	8.90	33.50	0.78	3.16	0.46		0.314	<10.0	0.06	0.46	6370	<0.2	176.0	<0.5	<0.002	2.330	<0.2	15.2	<0.1
NFRC SC-2	09/02/2012	Surface	<0.005	7.4	0.47	<50.0	75.7	<0.01	<0.005	41.6	0.02	0.13	<0.1	0.34	185		1.06	0.0075	8.48	39.20	0.77	2.99	0.64		0.312	<10.0	0.06	0.44	5680	<0.2	184.0	<0.5	<0.002	2.260	<0.2	16.9	<0.1
NFRC SC-3	09/02/2012	Surface	<0.005	7.1	0.49	<50.0	75.3	<0.01	0.009	39.8	0.03	0.12	<0.1	0.33	175		1.08	0.0074	8.80	39.40	0.76	3.05	0.52		0.301	<10.0	0.06	0.42	5630	<0.2	183.0	<0.5	0.003	2.310	<0.2	18.5	<0.1
NFRC SC-4	09/02/2012	Surface	<0.005	7.6	0.51	<50.0	75.7	<0.01	<0.005	43.5	0.03	0.17	<0.1	0.58	196		1.13	0.0077	9.12	52.40	0.79	3.21	0.65		0.505	<10.0	0.06	0.45	6020	<0.2	186.0	<0.5	<0.002	2.310	<0.2	22.8	<0.1
R10	14/02/2012	Surface	<0.005	7.8	0.51	<50.0	68.4	<0.01	<0.005	42.6	0.02	0.03	<0.1	0.36	108		1.06	0.0070	8.57	15.90	0.79	3.01	0.34		0.093	<10.0	0.06	0.43	6280	<0.2	170.0	<0.5	<0.002	2.280	<0.2	8.8	<0.1
R7	14/02/2012	Surface	<0.005	6.0	0.53	<50.0	69.9	<0.01	<0.005	40.2	0.01	0.02	<0.1	0.36	116		0.99	0.0069	7.46	11.30	0.77	2.96	0.21		0.082	<10.0	0.05	0.41	6200	<0.2	163.0	<0.5	<0.002	2.090	<0.2	1.3	<0.1
R8	14/02/2012	Surface	<0.005	6.3	0.50	<50.0	68.7	<0.01	<0.005	37.1	<0.005	0.02	<0.1	0.25	111		0.96	0.0066	7.24	13.20	0.76	2.93	0.22		0.029	<10.0	0.05	0.40	5930	<0.2	157.0	<0.5	<0.002	2.090	<0.2	0.8	<0.1
R9	14/02/2012	Surface	<0.005	9.0	0.53	<50.0	67.8	<0.01	<0.005	43.3	0.01	0.02	0.2	0.42	109		1.06	0.0068	8.70	14.20	0.77	3.08	0.36		0.081	<10.0	0.05	0.45	6440	<0.2	168.0	<0.5	<0.002	2.270	<0.2	2.0	<0.1
X10	07/02/2012	Surface	<0.005	4.7	0.22	<50.0	67.9	<0.01	<0.005	45.0	0.02	0.04	<0.1	0.42	164		1.15	0.0057	10.20	24.10	0.63	3.02	0.52		0.515	11.0	0.06	0.41	5600	<0.2	192.0	<0.5	<0.002	2.630	<0.2	31.1	<0.1
X14	02/02/2012	Surface	<0.005	5.2	0.39	<50.0	66.1	<0.01	<0.005	102.0	0.06	1.88	<0.1	0.18	472		1.94	0.0080	21.20	2840.00	0.67	6.83	4.87		0.138	74.0	0.06	0.44	5990	<0.2	323.0	<0.5	0.005	2.830	<0.2	28.1	<0.1
X2	07/02/2012	Surface	<0.005	6.5	0.47	<50.0	69.2	<0.01	<0.005	42.8	0.02	0.19	<0.1	0.32	182		1.06	0.0074	9.79	69.90	0.75	3.33	0.62		0.309	<10.0	0.06	0.44	5970	<0.2	178.0	<0.5	<0.002	2.520	<0.2	19.8	<0.1
X22b	06/02/2012	Surface	<0.03	18.0	<0.1	<300.0	17.3	0.11	<0.03	156.0	22.10	54.40	<0.5	26.00	55		7.90	0.0570	81.00	3370.00	<0.3	18.90	138.00		1.070	235.0	0.20	<0.2	4890	<1.0	631.0	<3.0	0.450	0.730	<1.0	22900.0	<0.5
X3	07/02/2012	Surface	<0.005	6.5	0.38	<50.0	68.8	<0.01	<0.005	42.8	0.02	0.12	<0.1	0.32	172		1.12	0.0064	9.33	54.80	0.64	3.21	0.51		0.213	<10.0	0.06	0.38	5760	<0.2	186.0	<0.5	<0.002	2.570	<0.2	14.6	<0.1
X3A	07/02/2012	Surface	<0.005	7.0	0.40	<50.0	68.4	<0.01	<0.005	43.6	0.02	0.11	<0.1	0.47	170		1.17	0.0061	9.74	65.20	0.66	3.28	0.49		0.402	<10.0	0.06	0.40	5650	<0.2	188.0	<0.5	<0.002	2.570	<0.2	18.0	<0.1
X4	06/02/2012	Surface	<0.03	4.0	0.30	<300.0	16.9	<0.05	<0.03	204.0	2.33	77.30	<0.5	1.40	96300		4.00	0.0150	40.20	18300.00	<0.3	11.40	60.50		2.890	270.0	<0.1	<0.2	6600	<1.0	644.0	<3.0	0.360	1.260	<1.0	10800.0	<0.5
X5P	06/02/2012	Surface	<0.03	3.0	0.40	<300.0	47.1	<0.05	<0.03	397.0	0.16	30.30	<0.5	0.90	1040		7.10	0.0180	93.40	18200.00	1.20	33.50	33.40		1.230	364.0	<0.1	<0.2	9270	<1.0	1060.0	<3.0	0.120	11.800	<1.0	106.0	<0.5
Vangorda Creek Drainage																																					
V1	27/02/2012	Surface	<0.005	7.6	0.28	<50.0	41.2	<0.01	<0.005	17.0	0.01	0.02	<0.1	0.33	15		0.64	0.0014	2.87	0.65	0.62	2.20	0.27		0.565	<10.0	0.04	0.22	4930	<0.2	81.9	<0.5	<0.002	1.360	<0.2	2.8	<0.1
V2	06/02/2012	Surface	<0.03	19.0	1.00	<300.0	70.9	<0.05	<0.03	271.0	0.22	0.10	<0.5	1.10	47	<0.05	2.50	<0.003	152.00	3.50	1.80	10.90	1.80		2.130	345.0	0.20	0.60	5660	<1.0	788.0	<3.0	<0.01	27.300	<1.0	18.6	<0.5
V25BSP	27/02/2012	Surface	<0.005	3.6	0.19	<50.0	26.3	<0.01	<0.005	179.0	0.20	0.02	<0.1	1.22	3	<0.01	1.74	0.0087	34.00	1.59	0.54	6.83	0.73	<0.002	0.032	195.0	0.12	0.65	5600	<0.2	543.0	<0.5	0.022	3.520	<0.2	82.3	<0.1
V27	21/02/2012	Surface	<0.005	4.9	0.51	<50.0	57.2	<0.01	<0.005	73.9	0.06	0.02	<0.1	0.51	6		1.01	0.0028	34.20	0.44	0.78	3.95	0.69		0.100	77.0	0.11	0.46	5000	<0.2	258.0	<0.5	0.009	6.580	<0.2	27.9	<0.1
V4	21/02/2012	Surface	<0.005	13.2	0.77	<50.0	90.9	<0.01	<0.005	99.3	0.02	0.07	<0.1	0.43	280		1.34	0.0058	37.70	52.90	1.04	4.24	0.70		0.096	32.0	0.09	0.84	5640	<0.2	409.0	<0.5	<0.002	15.300	<0.2	2.2	<0.1
V5	21/02/2012	Surface	<0.005	32.6	0.49	<50.0	83.1	<0.01	<0.005	100.0	0.05	0.10	0.2	0.64	83		1.50	0.0054	41.80	18.30	2.17	5.07	1.43		0.190	54.0	0.14	2.54	5550	<0.2	373.0	1.1	0.003	6.400	0.30	3.1	<0.1
V8	20/02/2012	Surface	<0.005	16.0	0.45	<50.0	73.8	<0.01	<0.005	95.5	0.06	0.06	<0.1	0.58	45		1.42	0.0057	41.30	6.03	1.30	5.03	1.56		0.144	65.0	0.16	1.50	5240	<0.2	368.0	<0.5	0.005	8.820	<0.2	10.5	<0.1

3 – QA/QC

Blanks

Station	Date	Sample Type	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
R8	14/02/2012	BLANK	<0.005	0.50	<0.02	<50	0.030	<0.01	<0.005	<0.05	0.01	<0.005	<0.1	0.0600	<1	<0.05	<0.0005	<0.05	<0.05	<0.05	<0.05	<0.02	0.0200	<0.02	<0.04	<100	<0.2	<0.05	<0.5	<0.002	0.0030	<0.2	0.400	<0.1	
Deionized Water			<0.005	<0.2	<0.02	<50	<0.02	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	2.5	1	1	1.5	1	1	1	1.4	1	1	1.2	1	1	0.001	1	1	1	1	1	4	1	1	1	20	1	1	1	1.5	1	4	1	
Comments																										Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.									
Action																											Let Value Stand								
Result																																			

	Blank value is a detection limit higher than that of DI water
	Blank value > PQL and < retest limit
	Blank value > retest limit
	Retest result to replace original result in emLine

Splits

			Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
Station	Date	Sample Type	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X4	06/02/2012	M	<0.03	4.00	0.30	<300	16.90	<0.05	<0.03	204.00	2.33	77.30	<0.5	1.40	96300.00		4.00	0.02	40.20	18300.00	<0.3	11.40	60.50	2.89	270.00	<0.1	<0.2	6600.00	<1	644.0	<3	0.360	1.26	<1	10800.00	<0.5
X4	06/02/2012	SPLIT	<0.03	5.00	0.20	<300	16.70	<0.05	<0.03	209.00	2.40	80.90	<0.5	1.60	95900.00		4.10	0.02	41.20	18500.00	<0.3	11.70	63.80	4.27	273.00	<0.1	<0.2	6570.00	<1	652.0	<3	0.370	1.18	<1	11400.00	<0.5
RPD (%)			N/A	22.22	40.00	N/A	1.19	N/A	N/A	2.42	2.96	4.55	N/A	13.33	0.42	N/A	2.47	0.00	2.46	1.09	N/A	2.60	5.31	38.55	1.10	N/A	N/A	0.46	N/A	1.23	N/A	2.74	6.56	N/A	5.41	N/A
Comments																																				
Action																																				
Result																																				
V8	20/02/2012	M	<0.005	16.00	0.45	<50	73.80	<0.01	<0.005	95.50	0.06	0.0590	<0.1	0.5800	45.00		1.42	0.006	41.30	6.030	1.30	5.03	1.560	0.1440	65.00	0	1.5000	5240.00	<0.2	368.00	<0.5	0.01	8.8200	<0.2	10.500	<0.1
V8	20/02/2012	SPLIT	<0.005	15.60	0.50	<50	75.20	<0.01	<0.005	96.40	0.06	0.0670	<0.1	0.5600	44.00		1.43	0.006	41.90	6.220	1.25	5.09	1.450	0.1360	66.00	0	1.5400	5230.00	<0.2	373.00	<0.5	0.01	8.6800	<0.2	10.800	<0.1
RPD (%)			N/A	2.53	10.53	N/A	1.88	N/A	N/A	0.94	1.74	12.70	N/A	3.51	2.25	N/A	0.70	3.45	1.44	3.10	3.92	1.19	7.31	5.71	1.53	13.33	2.63	0.19	N/A	1.35	N/A	18.18	1.60	N/A	2.82	N/A
Comments																																				
Action																																				
Result																																				

	RPD > 50%
	RPD > 100%
	Retest result to replace original result in emLine

Blanks

			Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Ti-d	U-d	V-d	Zn-d	Zr-d
Station	Date	Sample Type	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
R8	14/02/2012	BLANK	<0.005	1.60	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.0005	<0.05	<0.05	<0.05	<0.05	<0.02	0.0070	<0.02	<0.04	<100	<0.2	0.07	<0.5	<0.002	<0.002	<0.2	0.300	<0.1
Deionized Water			<0.005	<0.2	<0.02	<0.02	<50	<0.01	<0.005	<0.05	<0.005	<0.005	<0.1	<0.05	<1	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.02	<0.005	<0.02	<0.04	<100	<0.01	<0.05	<0.5	<0.002	<0.002	<0.2	<0.1	<0.1
Times greater than DI water			1	8	1	1	1	1	1	1	1	1	1	1	1	1	0.001	1	1	1	1	1	1.4	1	1	1	20	1.4	1	1	1	1	3	1
Comments				Blank concentration > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."																						Blank concentration not > PQL (detection limit for field blank higher than that used for DI water). Therefore, comparison not valid in this case.								
Action				Let Value Stand																						Let Value Stand								
Result				High blank value remains.																														

	Blank value is a detection limit higher than that of DI water
	Blank value > PQL and < retest limit
	Blank value > retest limit
	Retest result to replace original result in emLine

Duplicates

			Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d		Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	Pb-d	Sb-d	S-d	Se-d		Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d	
Station	Date	Sample Type	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
X13	02/02/2012	M	<0.03	7.00	1.70	47.30	<300	<0.05	<0.03	459.00	0.45	22.40	<0.5	0.90	6100.00	<0.05	6.70	0.02	101.00	27800.00	0.70	35.70	40.80	0.47	<0.1	496.00	<0.2		8420.00	<1	1150.0	<3	0.030	7.81	<1	50.80	<0.5		
X13	02/02/2012	DUPLICATE	<0.03	4.00	1.50	48.10	<300	<0.05	<0.03	470.00	0.37	22.90	<0.5	0.50	6260.00	<0.05	6.70	0.02	101.00	27800.00	0.50	35.70	40.30	0.43	<0.1	494.00	<0.2		8560.00	<1	1170.0	<3	0.030	7.69	<1	29.40	<0.5		
RPD (%)			N/A	54.55	12.50	1.68	N/A	N/A	N/A	2.37	19.51	2.21	N/A	57.14	2.59	N/A	0.00	0.00	0.00	0.00	0.00	33.33	0.00	1.23	8.89	N/A	0.40	N/A		1.65	N/A	1.72	N/A	0.00	1.55	N/A	53.37	N/A	
Comments				Both values correctly entered into emLine; however, duplicate value not > PQL. Therefore, RPD analysis not valid in this case.										Both values correctly entered into emLine; however, neither value > PQL. Therefore, RPD analysis not valid in this case.																						Both values > PQL and correctly entered into emLine.			
Action				Let Value Stand										Let Value Stand																							Let Value Stand		
Result				Discrepancy between values remains.										Discrepancy between values remains.																							Discrepancy between values remains.		
V15	06/02/2012	M	<0.03	10.00	0.50	37.300	<300	<0.05	0.09	396.00	1.60	0.0500	<0.5	2.6000	12.00		6.60	0.023	403.00	1.900	0.90	15.70	116.000	0.6700	<0.1	714	1.2000		5370.00	<1	1370.00	<3	<0.01	61.9000	<1	2920.000	<0.5		
V15	06/02/2012	DUPLICATE	<0.03	7.00	0.50	38.500	<300	<0.05	0.07	396.00	1.56	0.0600	<0.5	2.6000	14.00		6.60	0.023	395.00	2.300	0.80	15.70	117.000	0.7800	<0.1	710	1.2000		5430.00	<1	1390.00	<3	<0.01	63.3000	<1	2940.000	<0.5		
RPD (%)			N/A	35.29	0.00	3.17	N/A	N/A	25.00	0.00	2.53	18.18	N/A	0.00	15.38	N/A	0.00	0.00	2.01	19.05	11.76	0.00	0.86	15.17	N/A	0.56	0.00		1.11	N/A	1.45	N/A	N/A	2.24	N/A	0.68	N/A		
Comments																																							
Action																																							
Result																																							

	RPD > 50%
	RPD > 100%
	Retest result to replace original result in emLine

Splits

Station	Date	Sample Type	Ag-d µg/L	Al-d µg/L	As-d µg/L	Ba-d µg/L	B-d µg/L	Be-d µg/L	Bi-d µg/L	Ca-d mg/L	Cd-d µg/L	Co-d µg/L	Cr-d µg/L	Cu-d µg/L	Fe-d µg/L	Hg-d µg/L	K-d mg/L	Li-d mg/L	Mg-d mg/L	Mn-d µg/L	Mo-d µg/L	Na-d mg/L	Ni-d µg/L	Pb-d µg/L	Sb-d µg/L	S-d mg/L	Se-d µg/L	Si-d µg/L	Sn-d µg/L	Sr-d µg/L	Ti-d µg/L	Tl-d µg/L	U-d µg/L	V-d µg/L	Zn-d µg/L	Zr-d µg/L
X4	06/02/2012	M	<0.03	2.00	0.30	15.30	<300	<0.05	<0.03	201.00	2.28	78.90	<0.5	<0.3	92800.00		3.90	0.02	40.80	19300.00	<0.3	11.40	65.50	0.04	<0.1	267.00	<0.2	6070.00	<1	642.0	<3	0.350	1.14	<1	11900.00	<0.5
X4	06/02/2012	SPLIT	<0.03	2.00	0.20	15.50	<300	<0.05	<0.03	200.00	2.51	80.90	<0.5	<0.3	95100.00		4.00	0.02	42.00	19400.00	<0.3	12.00	66.60	<0.03	<0.1	262.00	<0.2	6000.00	<1	649.0	<3	0.380	1.04	<1	12000.00	<0.5
RPD (%)			N/A	0.00	40.00	1.30	N/A	N/A	N/A	0.50	9.60	2.50	N/A	N/A	2.45	N/A	2.53	6.06	2.90	0.52	N/A	5.13	1.67	N/A	N/A	1.89	N/A	1.16	N/A	1.08	N/A	8.22	9.17	N/A	0.84	N/A
Comments																																				
Action																																				
Result																																				
V8	20/02/2012	M	<0.005	3.80	0.48	71.80	<50	<0.01	<0.005	94.30	0.05	0.04	<0.1	0.45	15.00		1.38	0.01	40.60	3.88	1.26	4.89	1.45	0.07	0.15	62.00	1.52	5110.00	<0.2	370.0	<0.5	0.004	8.32	<0.2	10.80	<0.1
V8	20/02/2012	SPLIT	<0.005	3.90	0.43	76.70	<50	<0.01	<0.005	94.80	0.05	0.03	<0.1	0.44	14.00		1.46	0.01	39.40	3.76	1.25	4.55	1.20	0.06	0.14	70.00	1.44	5240.00	<0.2	372.0	<0.5	0.005	7.26	<0.2	9.40	<0.1
RPD (%)			N/A	2.60	10.99	6.60	N/A	N/A	N/A	0.53	3.77	19.18	N/A	2.25	6.90	N/A	5.63	6.78	3.00	3.14	0.80	7.20	18.87	11.94	6.90	12.12	5.41	2.51	N/A	0.54	N/A	22.22	13.61	N/A	13.86	N/A
Comments																																				
Action																																				
Result																																				

	RPD > 50%
	RPD > 100%
	Retest result to replace original result in emLine

Blanks

Station	Date	Sample Type	Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Cl-d	CO3	Colour	COND	DOC	HCO3	NH3	OH	pH	SO4-d	TDS	TOC	TSS	TURB
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L	(blank)	mg/L	mg/L	mg/L	mg/L	NTU
R8	14/02/2012	BLANK			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<1	<0.5	<0.5	<0.005	<0.5	5.61	<0.5	<10	<0.5	<1	<0.1
Deionized Water			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.005	<0.5	5.95	<0.5	<10.0	<0.5	<4.0	<0.1
Times greater than DI water			0	0	1	1	1	1	1	1	0	1	1	1	1	1	0.34	1	1	1	0.25	1
Comments																						
Action																						
Result																						

 Blank value is a detection limit higher than that of DI water Blank value > PQL and < retest limit Blank value > retest limit Retest result to replace original result in emLine

Duplicates

			Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN 4500	CO3	Colour	COND	DOC	HCO3	NH3	NO2	NO2/3	NO3	OH	ORP	pH	SO4-d	TDS	TOC	TSS	TURB
Station	Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mV	(blank)	mg/L	mg/L	mg/L	mg/L	NTU
X13	02/02/2012	M	<0.5	25.90	353.00	<0.5		1560.00	2.10	<0.005	<0.5	20.00	2400.00		430.00	0.88				<0.5	31.00	7.89	1240.00			13.70	1.54
X13	02/02/2012	DUPLICATE	<0.5	22.40	346.00	<0.5		1590.00	2.30	<0.005	<0.5	20.00	2510.00		422.00	0.88				<0.5	31.00	7.99	1270.00			14.50	1.60
RPD (%)			N/A	14.49	2.00	N/A	N/A	1.90	9.09	N/A	N/A	0.00	4.48	N/A	1.88	0.00	N/A	N/A	N/A	N/A	0.00	0.10	2.39	N/A	N/A	5.67	3.82
Comments																											
Action																											
Result																											
V15	06/02/2012	M	<0.5	48.70	520.00	<0.5		2650.00	1.60		<0.5		3520.0000		634.00					<0.5	154.000	7.89	1940.000			<1	
V15	06/02/2012	DUPLICATE	<0.5	53.30	522.00	<0.5		2620.00	1.80		<0.5		3530.0000		637.00					<0.5	154.000	7.98	1900.000			<1	
RPD (%)			N/A	9.02	0.38	N/A	N/A	1.14	11.76	N/A	N/A	N/A	0.28	N/A	0.47	N/A	N/A	N/A	N/A	N/A	0.00	0.09	2.08	N/A	N/A	N/A	N/A
Comments																											
Action																											
Result																											

 RPD > 50% Retest result to replace original result in emLine

Splits

			Acid(pH4.5)	Acid(pH8.3)	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN 4500	CO3	Colour	COND	DOC	HCO3	NH3	NO2	NO2/3	NO3	OH	ORP	pH	SO4-d	TDS	TOC	TSS	TURB
Station	Date	Sample Type	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mV	(blank)	mg/L	mg/L	mg/L	mg/L	NTU
X4	06/02/2012	M			22.30	<0.5	676.00	670.00	3.10		<0.5		1380.00		27.20	0.23	0.01	0.12	0.11	<0.5		6.22	788.00	1220.00		31.00	
X4	06/02/2012	SPLIT			21.70	<0.5	692.00	673.00	3.40		<0.5		1390.00		26.50	0.31	0.01	0.14	0.12	<0.5		6.21	819.00	1200.00		32.20	
RPD (%)			N/A	N/A	2.73	N/A	2.34	0.45	9.23	N/A	N/A	N/A	0.72	N/A	2.61	29.63	8.00	8.49	9.36	N/A	N/A	0.01	3.86	1.65	N/A	3.80	N/A
Comments																											
Action																											
Result																											
V8	20/02/2012	M			209.00	<0.5	409.00	403.00	1.70		<0.5		704.00	2.25	255.00	0.04	<0.005	0.42	0.42	<0.5		8.27	166.00	546.00	1.77	1.60	0.41
V8	20/02/2012	SPLIT			209.00	<0.5	413.00	399.00	1.70		<0.5		701.00	2.49	255.00	0.04	<0.005	0.42	0.42	<0.5		8.29	167.00	532.00	1.87	1.70	0.27
RPD (%)			N/A	N/A	0.00	N/A	0.97	1.00	0.00	N/A	N/A	N/A	0.43	10.13	0.00	0.00	N/A	0.47	0.47	N/A	N/A	0.02	0.60	2.60	5.49	6.06	41.18
Comments																											
Action																											
Result																											

 RPD > 50% Retest result to replace original result in emLine

February 2012 QA/QC Lab vs. Field Comparison

		COND	CONDF	RPD	Comments	Action	Result	pH	pHF	Difference	Comments	Action	Result
Station	Date	µmho/cm	µmho/cm	%									
A30	15/02/2012	209	200	4.40				7.28	6.64	0.64			
ETA Combined	02/02/2012	7660	8520	10.63				4.36	6.19	1.83	Field and lab values correctly entered into emLine.	Let Value Stand	Retest request would be filed past hold time. Discrepancy between values remains.
FAROCR	14/02/2012	95	112	16.43				7.75	7.59	0.16			
FCS-4	02/02/2012	7200	7950	9.90				4.24	6.91	2.67	Field and lab values correctly entered into emLine.	Let Value Stand	Retest request would be filed past hold time. Discrepancy between values remains.
FD-40	15/02/2012	1470	178	156.80	Field and lab values correctly entered into emLine.	Let Value Stand	Retest request would be filed past hold time. Discrepancy between values remains.	5.04	5.37	0.33			
MOOSE SEEP	06/02/2012	2170	1672	25.92	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	8.24	7.92	0.32			
NF2	13/02/2012	281	310	9.81				7.68	7.93	0.25			
NFRC SC-1	13/02/2012	282	300	6.19				7.66	7.75	0.09			
NFRC SC-2	09/02/2012	287	242	17.01				7.77	7.40	0.37			
NFRC SC-3	09/02/2012	289	296	2.39				7.75	6.82	0.93			
NFRC SC-4	09/02/2012	291	299	2.71				7.79	7.34	0.45			
R10	14/02/2012	273	270	1.10				8.08	7.22	0.86			
R7	14/02/2012	251	266	5.80				7.90	7.89	0.01			
R8	14/02/2012	247	241	2.46				7.95	7.18	0.77			
R9	14/02/2012	267	283	5.82				7.94	7.73	0.21			
SRK GD01	27/02/2012	3220	2060	43.94	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	8.26	7.79	0.47			
SRK05-9	06/02/2012	2220	1649	29.52	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	8.16	7.63	0.53			
SRK05-9	23/02/2012	2090	2410	14.22				8.25	7.62	0.63			
SRK08-SPW1	07/02/2012	1120	1300	14.88				6.61	6.22	0.39			
SRK08-SPW2	07/02/2012	5050	5450	7.62				6.87	5.93	0.94			
SRK08-SPW3	07/02/2012	6790	7450	9.27				6.92	6.08	0.84			
V1	27/02/2012	118	125	5.76				7.94	7.97	0.03			
V15	06/02/2012	3520	2666	27.61	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	7.89	6.98	0.91			
V15	23/02/2012	3450	3910	12.50				8.28	7.04	1.24	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.
V2	06/02/2012	1980	1517	26.48	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	8.31	8.11	0.2			
V25BSP	27/02/2012	1070	660	47.40	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.	7.98	7.76	0.22			
V27	21/02/2012	607	640	5.29				8.08	8.02	0.06			
V4	21/02/2012	683	775	12.62				8.07	8.01	0.06			
V5	21/02/2012	726	770	5.88				8.23	8.45	0.22			
V8	20/02/2012	704	734	4.17				8.27	8.23	0.04			
X10	07/02/2012	310	320	3.17				8.10	8.03	0.07			
X13	02/02/2012	2400	2590	7.62				7.89	6.67	1.22	Field and lab values correctly entered into emLine.	Let Value Stand	Discrepancy between lab and field values remains.
X14	02/02/2012	683	681	0.29				8.08	7.65	0.43			
X2	07/02/2012	294	290	1.37				8.03	7.76	0.27			
X22b	06/02/2012	1350	1163	14.88				7.59	7.44	0.15			
X3	07/02/2012	294	310	5.30				8.05	7.60	0.45			
X3A	07/02/2012	297	290	2.39				8.00	7.73	0.27			
X4	06/02/2012	1380	1416	2.58				6.22	6.20	0.02			
X5P	06/02/2012	2220	1883	16.43				7.78	6.95	0.83			

RPD > 50% or pH difference > 1.5 pH unit

RPD > 20% or pH difference > 1 pH unit

February 2012 High/Lows Flagged Results

Station	Analyte	Date	10 Year Low		10 Year High		10 Year Average	10 Year Median	10 Year Standard Deviation	10 Year Count, N		Result	Units	Comments	Action	Result Flag	Result
FAROCR	Co	14-Feb-12	0.000023		0.003		0.0008	0.001	0.000644	67		2E-05	mg/L				
FAROCR	Cu-d	14-Feb-12	0.00064		0.034		0.00368	0.00132	0.0057969	67		0.0006	mg/L				
FAROCR	Fe-d	14-Feb-12	0.008		0.5		0.07712	0.05	0.0819859	67		0.004	mg/L				
FAROCR	Mn	14-Feb-12	0.00032		0.11		0.0084	0.002	0.0191232	67		0.0002	mg/L				
FAROCR	Pb	14-Feb-12	0.00061		0.084		0.00845	0.003	0.0157629	67		0.0005	mg/L				
MOOSE SEEP	TEMP-F	6-Feb-12	0.1		9.3		3.85	3.8	2.3575582	103	<	0	°C				
NF2	K-d	13-Feb-12	0.05		1.94		0.83579	0.73	0.4067947	57		2.19	mg/L				
NFRC SC-1	CONDf	13-Feb-12	49		272		178.705	191	67.02108	22		300	µmho/cm				
NFRC SC-1	Mo-d	13-Feb-12	0.00005		0.001	DL	0.00063	0.00067	0.0002371	23		0.0014	mg/L	Result > PQL and correctly entered into emLine. Lab noted that "Dissolved greater than total. Reanalysis yields similar results."	Let Value Stand		High value remains.
NFRC SC-1	Si	13-Feb-12	0.1		6.33		5.05364	5.1	0.9991403	22		6.37	mg/L				
NFRC SC-1	Si-d	13-Feb-12	0.1		6.33		4.89045	5.12	1.0821692	22		6.6	mg/L				
NFRC SC-2	K-d	9-Feb-12	0.05		2	DL	0.92174	0.87	0.3707076	23		2.03	mg/L				
NFRC SC-2	Mn-d	9-Feb-12	0.00005		0.0504		0.02769	0.0288	0.0137191	23		0.051	mg/L				
NFRC SC-3	Ba	9-Feb-12	0.00002		0.073		0.05367	0.0567	0.0159598	23		0.0753	mg/L				
NFRC SC-3	Ba-d	9-Feb-12	0.00002		0.0725		0.05327	0.0581	0.0164694	23		0.0728	mg/L				
NFRC SC-3	pHF	9-Feb-12	7		8.35		7.665	7.615	0.2797746	22		6.82	(blank)				
NFRC SC-4	DOC	9-Feb-12	0.9		22.1		3.53571	2.1	4.8241658	21		0.51	mg/L				
R9	Co-d	14-Feb-12	0.000018		0.02	DL	0.00089	0.001	0.0020301	100		2E-05	mg/L				
V25BSP	Co	27-Feb-12	0.00002		0.04		0.00327	0.002	0.0055037	133		2E-05	mg/L				
V25BSP	Fe	27-Feb-12	0.004		2.12		0.16908	0.08	0.268029	133		0.003	mg/L				
V25BSP	TI	27-Feb-12	0.000024		0.0034		0.00063	0.00041	0.0006593	120		2E-05	mg/L				
V25BSP	TI-d	27-Feb-12	0.000026		0.002	DL	0.00057	0.0003	0.0005916	120		2E-05	mg/L				
V27	TURB	21-Feb-12	0.1	DL	3.3		0.47821	0.25	0.6426223	28		0.08	NTU				
V5	FLOW	21-Feb-12	42		326.8		231.492	128.406	261.9196	21		33.5	L/s				
X13	ALK	2-Feb-12	231		350		300.136	300	31.143118	81		353	mg/L				
X13	Fe-d	2-Feb-12	0.01	DL	5.56		1.21144	0.1415	1.7330939	122		6.1	mg/L				
X13	Mg-d	2-Feb-12	30.2		100		59.2033	52.1	17.222635	122		101	mg/L				
X13	Mn-d	2-Feb-12	5.06		25.7		13.1617	10.8995	5.1693734	122		27.8	mg/L				
X13	Ni-d	2-Feb-12	0.007		0.0385		0.01857	0.015	0.0072886	122		0.0408	mg/L				
X14	NO2	2-Feb-12	0.005	DL	0.01		0.00509	0.005	0.0006682	56	<	0.05	mg/L				
X4	Pb-d	6-Feb-12	0.000043		2.83		0.26111	0.007	0.5337238	121		4E-05	mg/L				
X5P	ALK	6-Feb-12	15		310		179.554	201	81.798828	63		367	mg/L				
X5P	Fe	6-Feb-12	0.03		1.02		0.34473	0.29	0.2079349	71		1.04	mg/L				
X5P	Fe-d	6-Feb-12	0.007		0.49		0.09357	0.05	0.1095989	72		0.759	mg/L	Result > PQL and correctly entered into emLine.	Request Retest	Value is high	Retest performed. Results confirmed original value. High value remains.
X5P	HCO3	6-Feb-12	18		380		218.676	245	99.490051	63		447	mg/L				
X5P	U	6-Feb-12	0.000353		0.0076		0.00372	0.00379	0.0021632	70		0.0118	mg/L	Result > PQL and correctly entered into emLine.	Let Value Stand		High value remains.
X5P	U-d	6-Feb-12	0.000346		0.0072		0.00344	0.0033	0.0020145	71		0.0112	mg/L	Result > PQL and correctly entered into emLine.	Let Value Stand		High value remains.

Yellow Cells: Result is more than 1 SD above/below high/low limit

Red Cells: Result is more than 2 SDs above/below high/low limit

4 – POTABLE WATER

February 2012 Chlorine Analysis



Date	Time	Analyst Initials	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
01-Feb-12	13:40	BB	0.27	0.33	
14-Feb-12	17:28	CF	0.33	0.45	

5 – FLOWS

Field Flows

February 2012													
Rose Creek Drainage													
Site	Water Type	Date	Time	Staff Gauge (m)	Weir Measurement (m)	Flow (l/s)	Type of Flow	Well Water Level (m)	Depth to Bottom (m)	Purge Volume (L)	Purge Rate (L/s)	Flow/Level Monitored	Comments
FCO	Surface	5-Feb-12	00:00									x	Flow not measured.
NWID	Surface	5-Feb-12	00:00			0.30	Estimation					v	
A30	Seepage	15-Feb-12	16:40			0.60	Estimation					v	
ETA Combined	Surface	2-Feb-12	11:10			3.33	Volumetric					v	
FAROCR	Surface	14-Feb-12	16:00									x	Flow not measured.
FCS-4	Surface	2-Feb-12	10:48		0.10	3.89	Calc					v	
FD-40	Seepage	15-Feb-12	15:05			8.00	Estimation					v	
NF2	Surface	13-Feb-12	16:00									x	Flow not measured.
NFRC SC-1	Surface	13-Feb-12	16:10			308.00	Salt Slug					v	
NFRC SC-2	Surface	9-Feb-12	13:30									x	Frozen.
NFRC SC-3	Surface	9-Feb-12	13:55			297.00	Salt Slug					v	
NFRC SC-4	Surface	9-Feb-12	10:42			323.00	Salt Slug					v	
R10	Surface	14-Feb-12	10:25									x	Flow not measured.
R7	Surface	14-Feb-12	15:05			280.00	In-stream					v	
R8	Surface	14-Feb-12	10:58									x	Flow not measured.
BLANK 1	Surface	14-Feb-12	11:03									x	Blank of R8. Flow not measured.
R9	Surface	14-Feb-12	10:40									x	Flow not measured.
X10	Surface	7-Feb-12	15:06									x	Flow not measured.
X13	Seepage	2-Feb-12	13:37		0.04	11.72	Calc					v	
DUPLICATE 1	Seepage	2-Feb-12	13:47		0.04	11.72	Calc					v	Duplicate of X13.
X14	Surface	2-Feb-12	12:52			386.20	Salt Slug					v	
X2	Surface	7-Feb-12	15:52									x	Flow not measured.
X23	Seepage	5-Feb-12	10:34									x	Frozen; No flow - no sample.
X3	Surface	7-Feb-12	16:05									x	Flow not measured.
X3A	Surface	7-Feb-12	15:35									x	Flow not measured.
Vangorda Creek Drainage													
MOOSE SEEP	Seepage	6-Feb-12	13:25			0.50	Estimation					v	
SRK GD01	Seepage	27-Feb-12	10:45			0.50	Estimation					v	
SRK05-9	Ground	6-Feb-12	12:47					3.0710	3.977	3.5	0.0116	v	
SRK05-9	Ground	23-Feb-12	13:42					3.0580	3.98	3.5	0.78	v	
SRK08-SPW1	Ground	7-Feb-12	09:50			0.88	In-line					v	
SRK08-SPW2	Ground	7-Feb-12	09:40			1.06	In-line					v	
SRK08-SPW3	Ground	7-Feb-12	09:30			2.38	In-line					v	
V1	Surface	27-Feb-12	10:07			48.50	Salt Slug					v	
V15	Seepage	6-Feb-12	11:20			0.40	Estimation					v	
DUPLICATE 2	Seepage	6-Feb-12	11:25			0.40	Estimation					v	Duplicate of V15.
V15	Seepage	23-Feb-12	14:19			0.25	Estimation					v	
V2	Surface	6-Feb-12	13:45			4.00	Estimation					v	
V25BSP	Surface	27-Feb-12	11:10		0.34	91.87	Calc					v	
V27	Surface	21-Feb-12	11:00			45.00	In-stream					v	
V2A	Surface	6-Feb-12	11:45			0.00	Estimation					v	No flow.
V4	Surface	21-Feb-12	11:30									x	Flow not measured.
V5	Surface	21-Feb-12	15:53			33.50	In-stream					v	
V8	Surface	20-Feb-12	14:15			109.00	In-stream					v	
SPLIT 2	Surface	20-Feb-12	14:25			109.00	In-stream					v	Split of V8.

Weir Flows

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	14:05	3.5	6.76	0.102	4.53	
12-Jan-2012	13:10	1.4	6.81	0.096	3.89	
23-Jan-2012	13:10	0.7	7.01	0.104	4.75	
26-Jan-2012	17:35	1.5	6.95	0.103	4.64	
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	14:00	1.5	6.92	0.105	4.87	
09-Feb-2012	16:00	0.6	6.95	0.098	4.1	
16-Feb-2012	14:45	2.8	6.95	0.095	3.79	
23-Feb-2012	15:56	3.2	6.98	0.122	7.09	
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	14:30	0.9	7.09	0.023	0.11	
12-Jan-2012	13:34	0.8	7.16	0.015	0.04	
23-Jan-2012	13:34	0.0	7.47	0.022	0.10	
26-Jan-2012	12:50	1.0	7.52	0.024	0.12	
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	14:45	0.1	7.35	0.014	0.03	
09-Feb-2012	16:15	0.7	7.17	0.012	0.02	
16-Feb-2012	14:55	1.3	7.27	0.025	0.13	
23-Feb-2012	16:13	0.5	7.33	0.024	0.12	
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

Weir 3

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	14:16	1.9	6.88	0.078	2.32	
12-Jan-2012	13:29	2.3	6.86	0.068	1.64	
23-Jan-2012	13:23	0.4	7.15	0.058	1.10	
26-Jan-2012	17:45	1.8	7.2	0.064	1.41	
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	14:50	2.2	6.99	0.072	1.9	
09-Feb-2012	16:09	1.8	7.01	0.067	1.58	
16-Feb-2012	14:52	2.2	7.15	0.073	1.96	
23-Feb-2012	16:05	0.9	7.08	0.075	2.1	
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	14:08	2	6.88	0.0475	17.39	
12-Jan-2012	13:21	1.7	7.14	0.038	12.45	
23-Jan-2012	13:15	1.3	7.03	0.052	19.92	
26-Jan-2012	17:40	2.2	7.05	0.0485	17.95	
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	13:38	1.9	6.67	0.0365	11.72	
09-Feb-2012	16:03	1.1	7.07	0.037	11.96	
16-Feb-2012	14:48	2.5	7.18	0.0395	13.19	
23-Feb-2012	15:59	1.9	7.19	0.052	19.92	
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	00:00					Frozen at weir.
12-Jan-2012	00:00					Frozen at weir.
19-Jan-2012	00:00					Frozen at weir.
26-Jan-2012	00:00					Frozen at weir.
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	10:33					Frozen at weir.
09-Feb-2012	15:50					Frozen at weir.
16-Feb-2012	15:10					Frozen at weir.
23-Feb-2012	16:30					Frozen at weir.
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Jan-2012	00:00					
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
05-Feb-2012	00:00					
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

January 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
12-Jan-2012	15:40	1.6	6.67	0.086	2.96	
February 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment
02-Feb-2012	10:47	1.3	6.91	0.096	3.89	
March 2012						
Date	Time	Temp	pH	Weir (m)	Flow (L/s)	Comment

ETA Mill

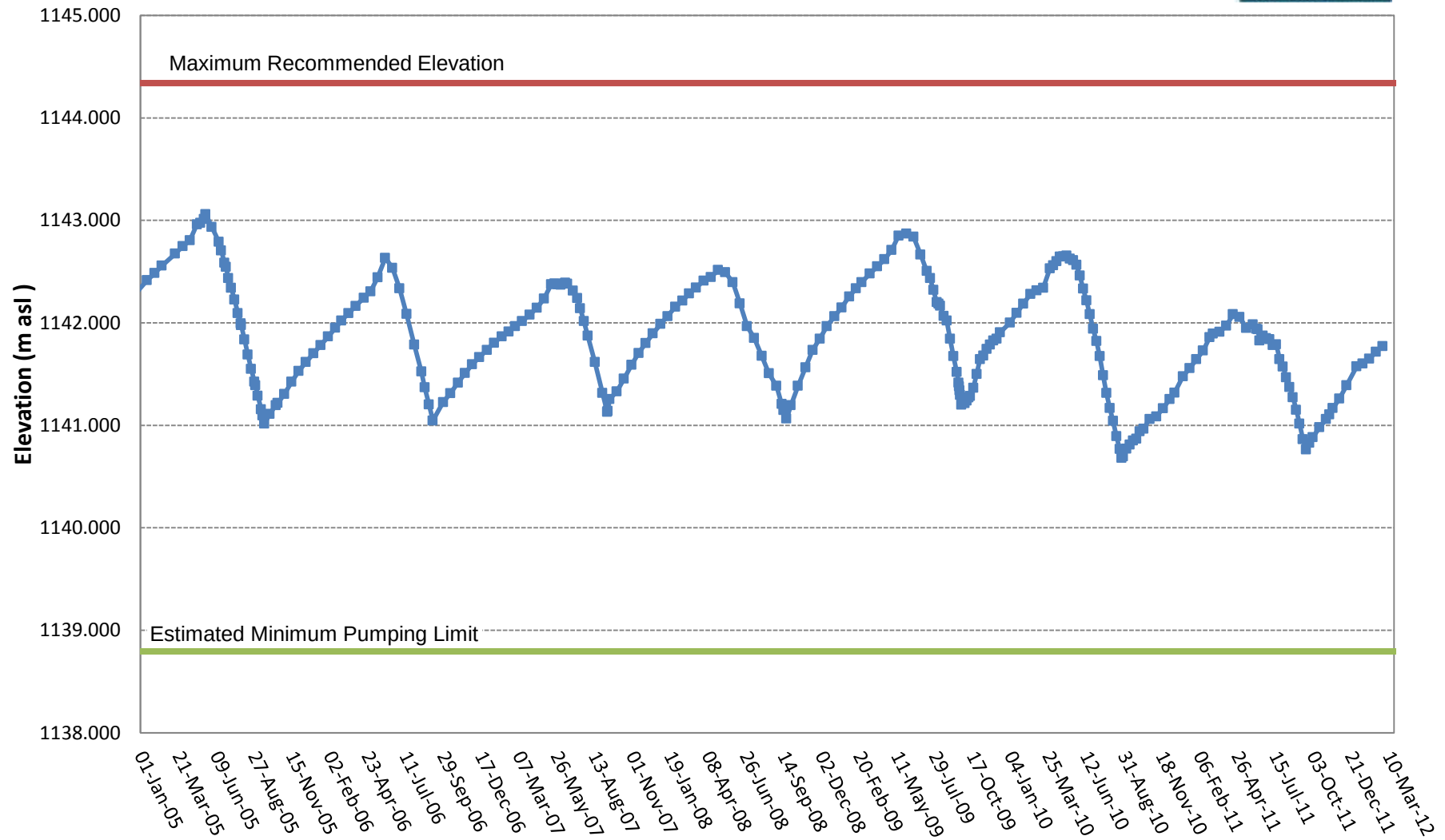


January 2012						
Date	Time	Temp	pH	S.G (m)	Flow (L/s)	Comment
01-Jan-2012	00:00					Mill shut down for winter.
February 2012						
Date	Time	Temp	pH	S.G (m)	Flow (L/s)	Comment
01-Feb-2012	00:00					Mill shut down for winter.
March 2012						
Date	Time	Temp	pH	S.G (m)	Flow (L/s)	Comment

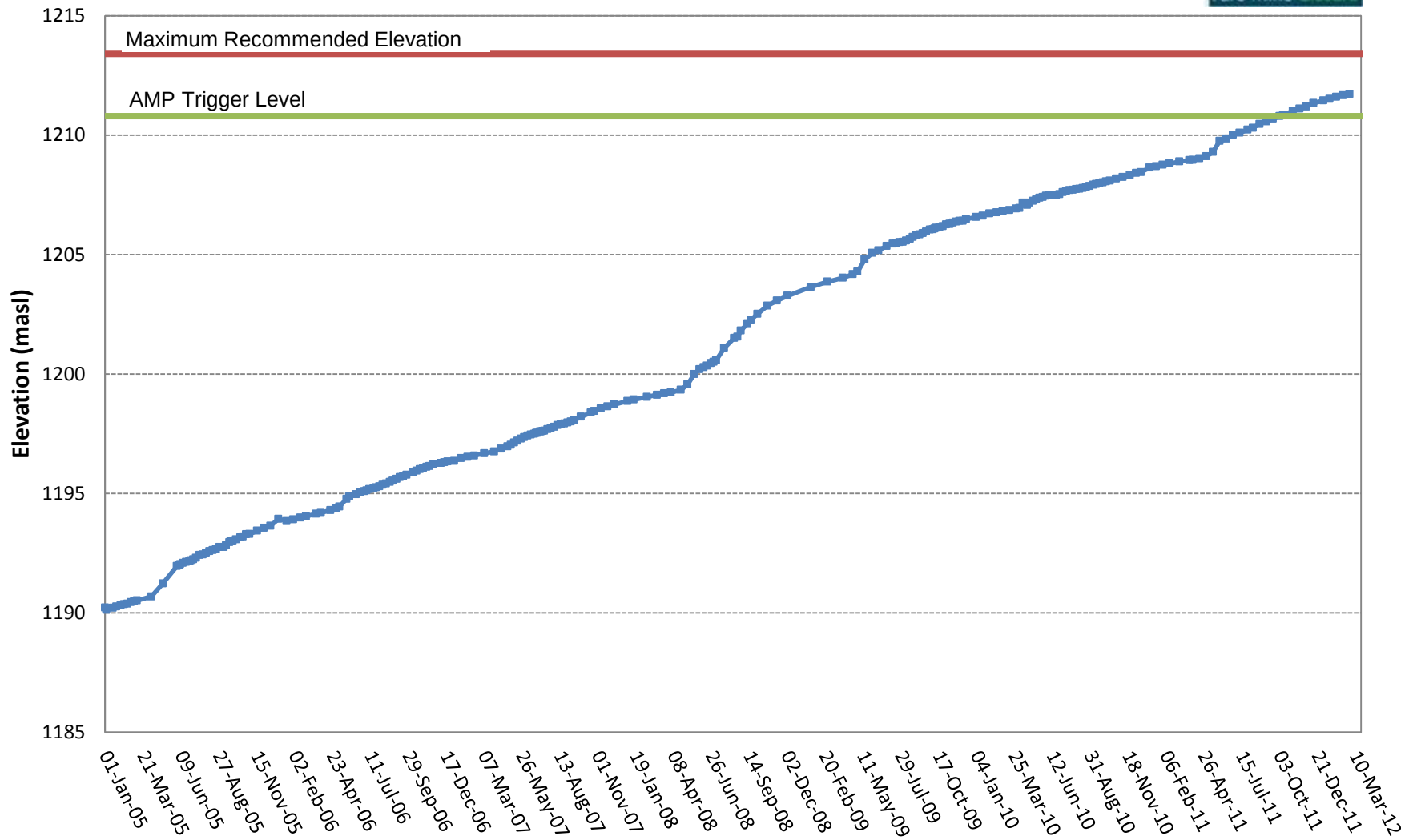
6 – PIT ELEVATIONS

Levels

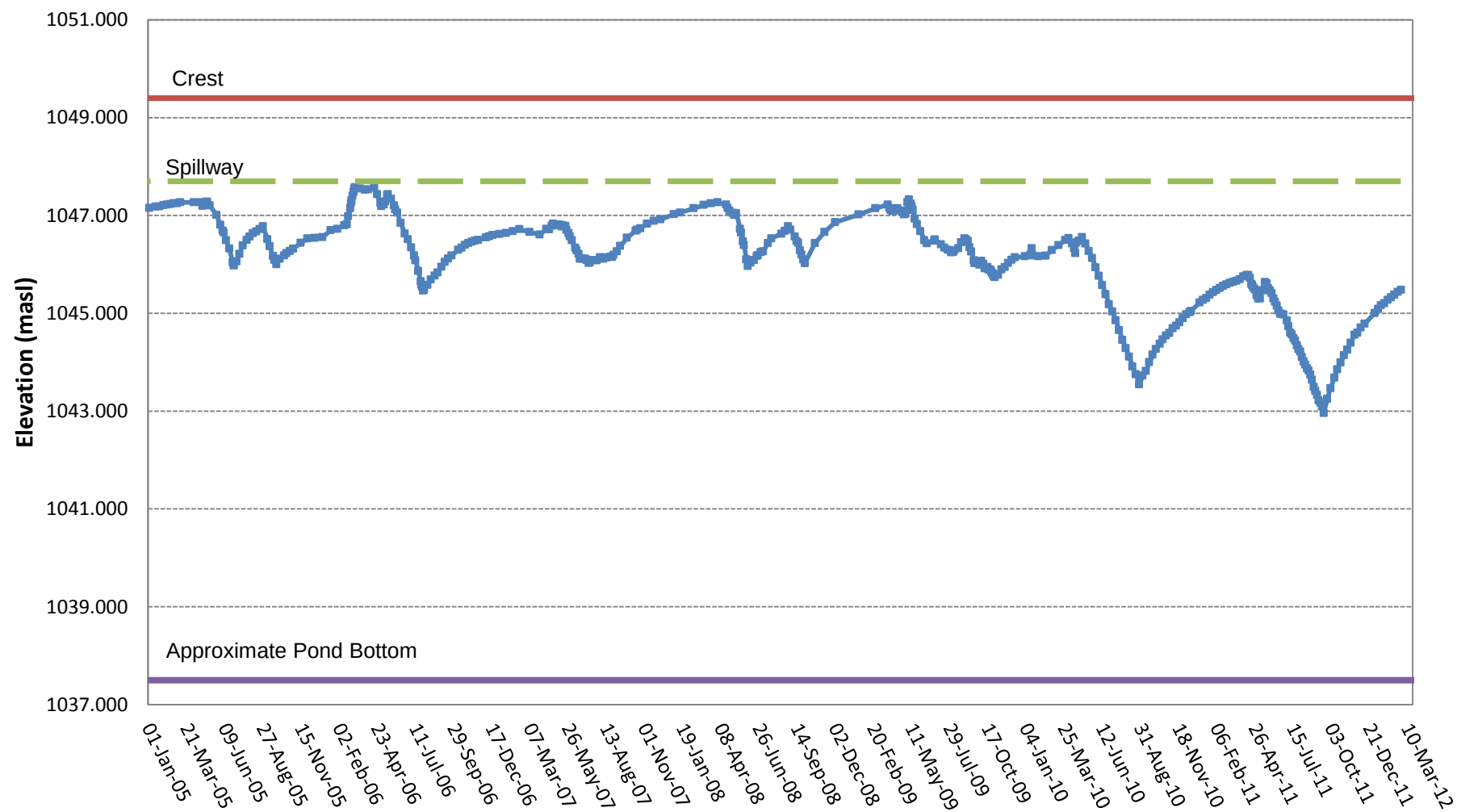
Faro Pit Water Elevations



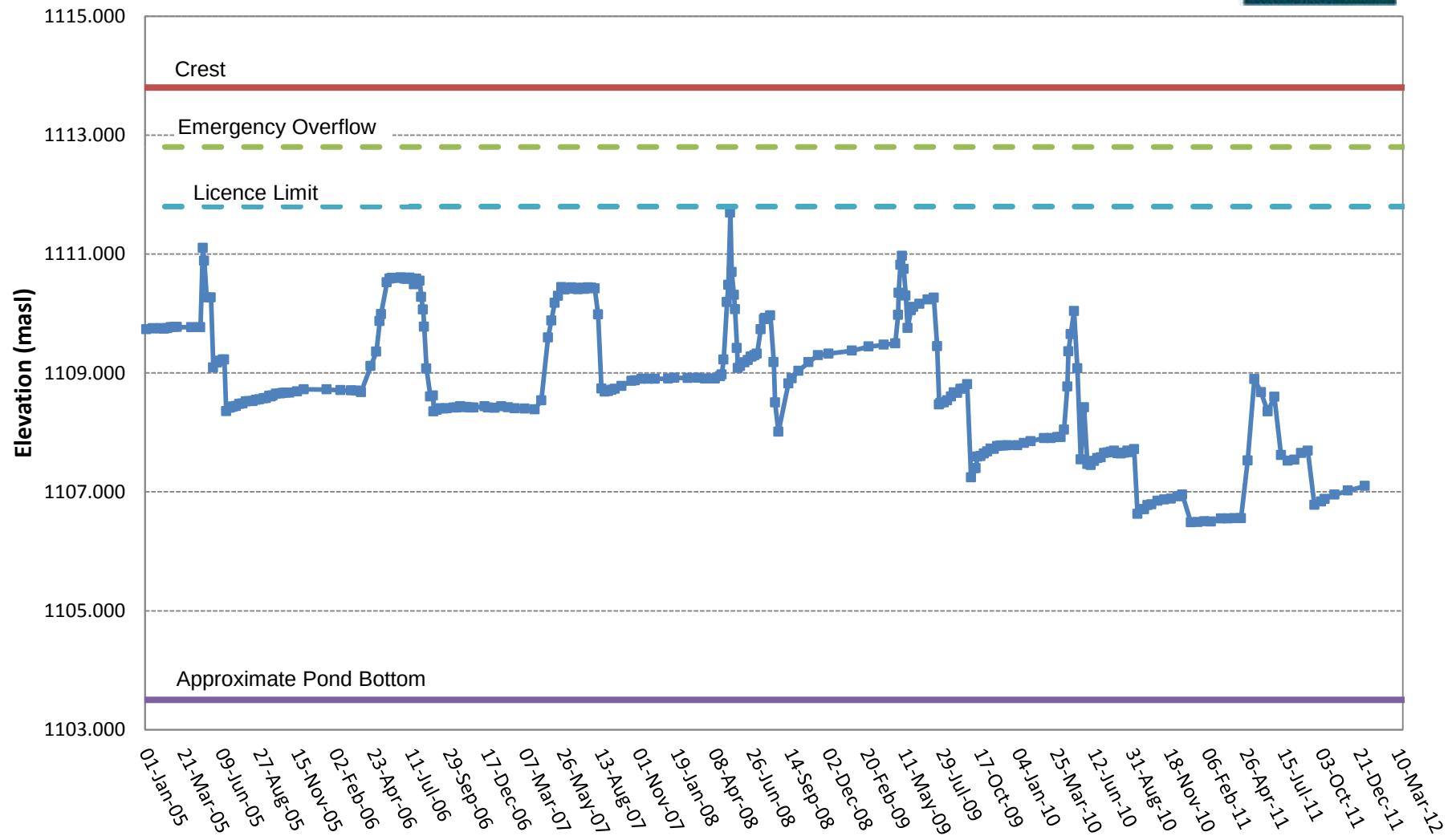
Grum Pit Water Elevations



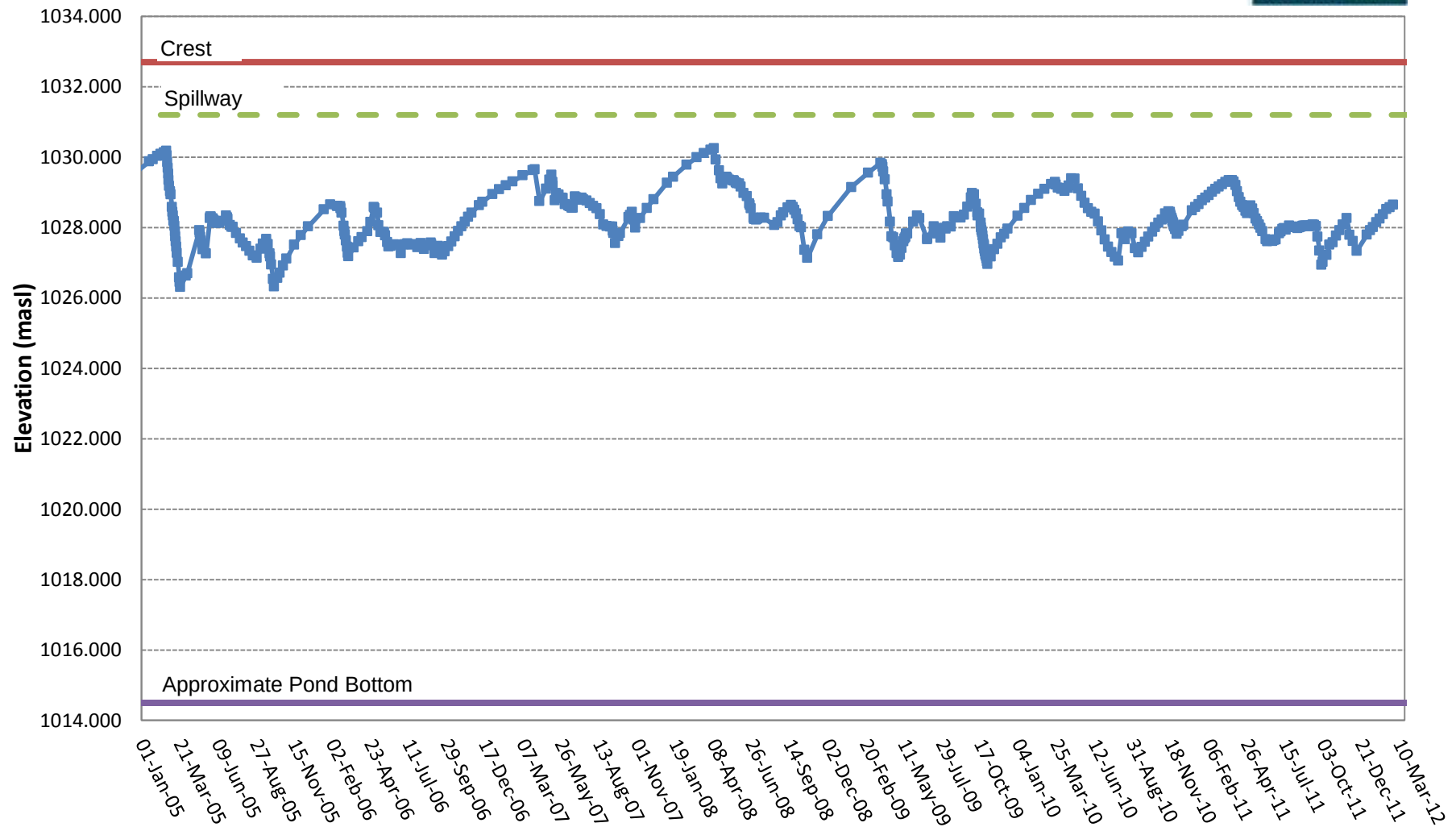
Intermediate Pond Water Elevations



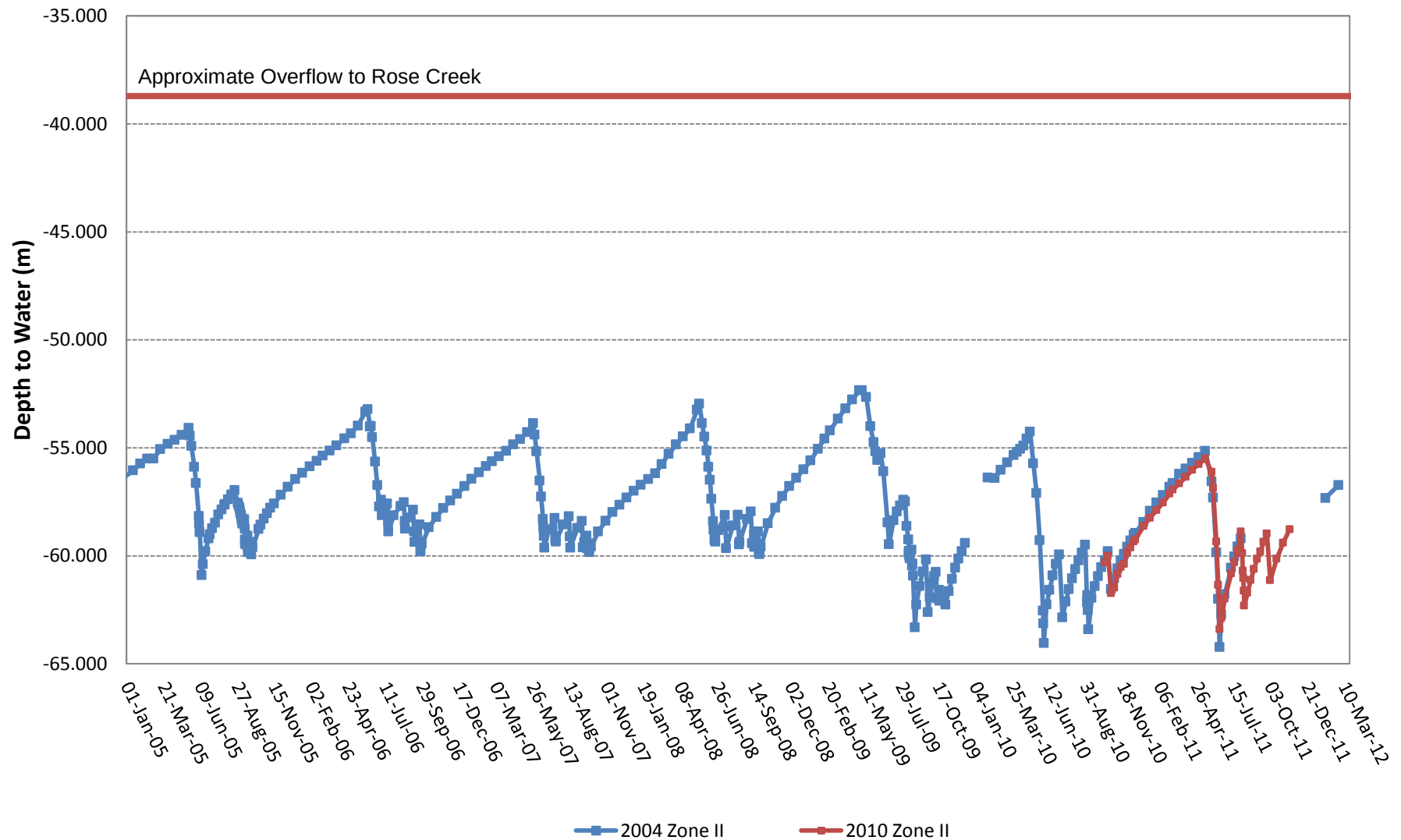
Little Creek Dam Water Elevations



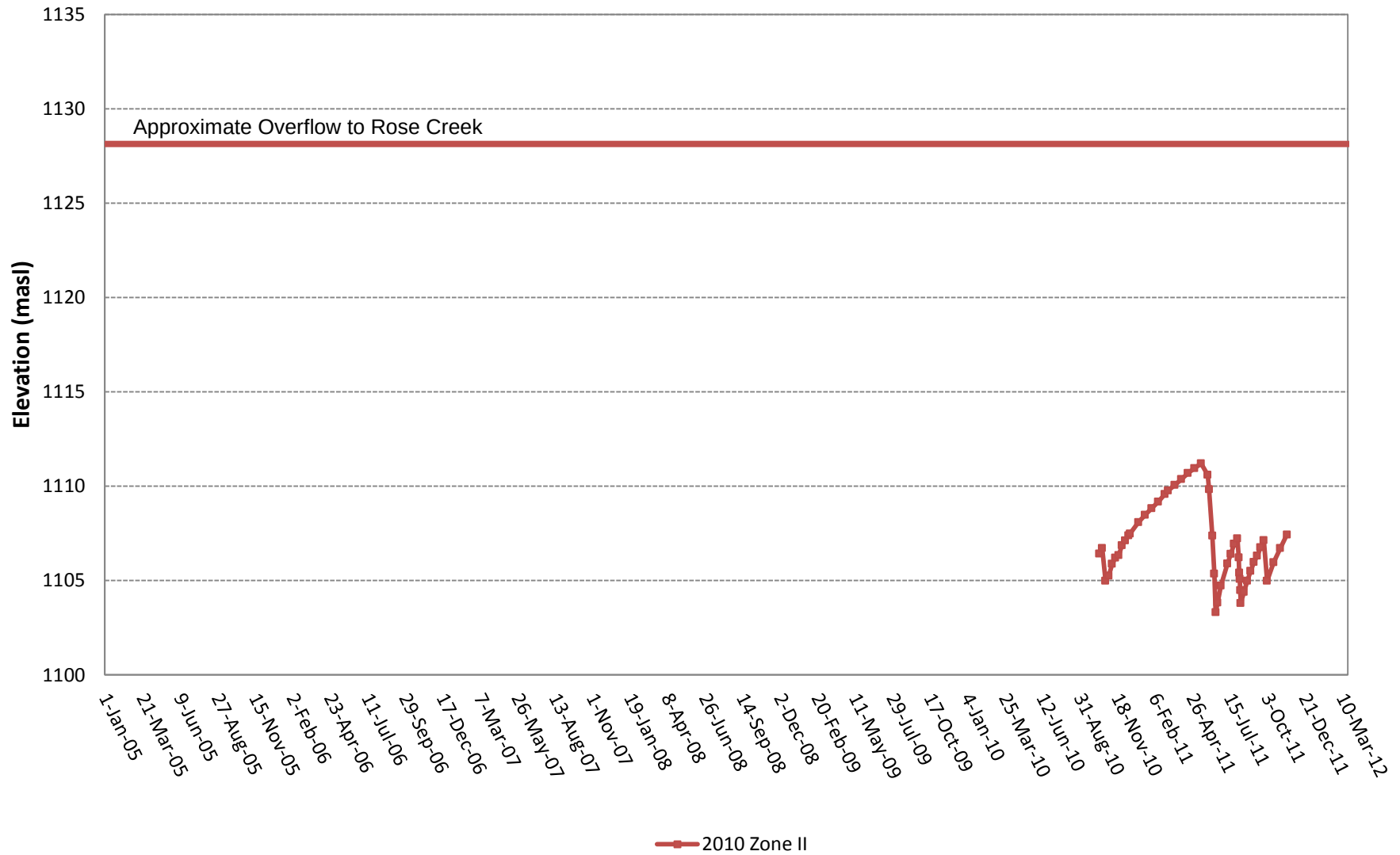
Polishing Pond Water Elevations



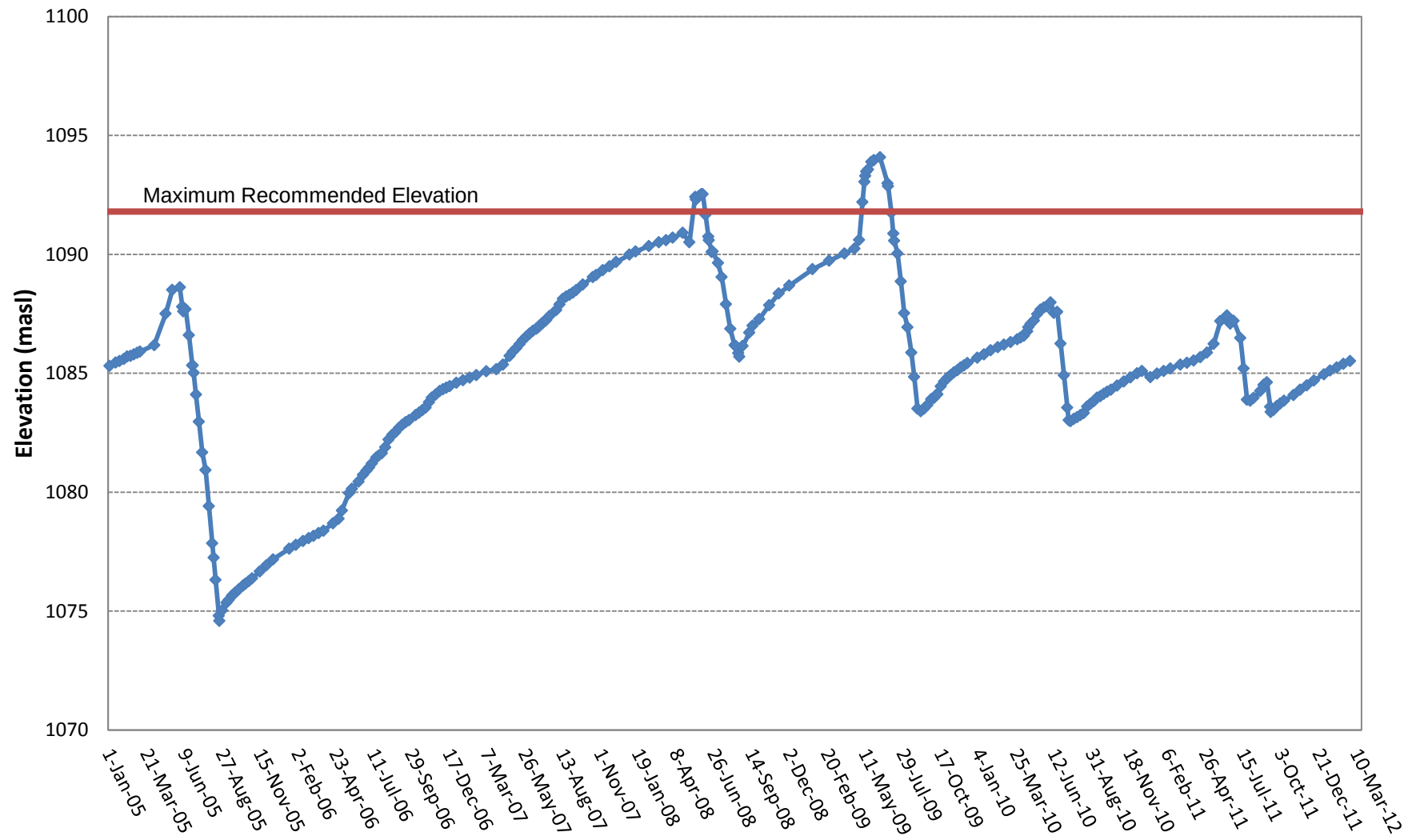
Measured Water Level in Faro Zone II Pit



Faro Zone II Pit Water Elevation



Vangorda Pit Water Elevations



7 – TERRESTRIAL MONITORING

Terrestrial Monitoring - Wildlife Sightings February 2012

Date	Wildlife Sighted	Time of Sighting	Qty.	Description of Sighting
01-Feb-12	Ptarmigan	3:38 PM	6	6 Ptarmigan at S-Wells.
08-Feb-12	Ptarmigan	10:40 AM	4	4 Ptarmigan Down Valley Road.
14-Feb-12	Moose	8:30 AM	1	1 Moose Down Valley.
14-Feb-12	Ptarmigan	9:25 AM	9	9 Ptarmigan Main Access Road.

8 – METEOROLOGICAL

Faro Meteorological



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
31	2/1/2012 0:00	2400	-6.141	75.8	0.632	245.9	15.24	-3.932	0	0	-1.486	0	-8.31	-8.52	0.109	20.95	0	0	-1.055	200.7	387.5
32	2/1/2012 1:00	100	-6.01	73	1.249	248.7	11.12	-7.2	0	0	-1.486	0	-8.27	-8.48	0.109	20.95	0	0	-1.062	200.7	387.5
32	2/1/2012 2:00	200	-6.257	73.9	1.059	253.4	9.38	-5.056	0	0	-1.486	0	-8.24	-8.45	0.109	20.96	0	0	-1.062	200.7	387.5
32	2/1/2012 3:00	300	-6.386	73.6	0.94	234.6	10.87	-3.306	0	0	-1.475	0	-8.2	-8.42	0.109	20.96	0	0	-1.067	200.7	387.5
32	2/1/2012 4:00	400	-6.654	73.7	0.735	294.2	15.89	-2.189	0	0	-1.321	0	-8.17	-8.4	0.109	20.97	0	0	-1.068	200.7	387.5
32	2/1/2012 5:00	500	-6.362	72.5	0.668	254.7	21.11	-4.231	0	0	-1.274	0	-8.14	-8.37	0.109	20.97	0	0	-1.069	200.7	387.5
32	2/1/2012 6:00	600	-6.228	71.2	0.532	296.9	45.85	-3.414	0	0	-1.274	0	-8.11	-8.34	0.11	20.97	0	0	-1.061	200.7	387.5
32	2/1/2012 7:00	700	-6.824	74.3	0.472	104.6	33.95	-2.751	0	0	-1.274	0	-8.08	-8.32	0.11	20.98	0	0	-1.068	200.7	387.5
32	2/1/2012 8:00	800	-6.879	75.5	0.96	84.4	18.94	-5.477	0	0	-1.274	0	-8.05	-8.29	0.11	20.98	0	0	-1.066	200.7	387.5
32	2/1/2012 9:00	900	-6.56	72.7	0.852	115.5	20.58	-5.722	0	0	-1.274	0	-8.02	-8.27	0.11	20.99	0	0	-1.049	200.7	387.5
32	2/1/2012 10:00	1000	-6.858	72	0.49	184.9	36.42	-4.167	0	0	-1.274	0	-8	-8.24	0.11	20.99	0	0	-1.05	200.7	387.5
32	2/1/2012 11:00	1100	-6.794	69.84	1.671	152.4	12.01	2.768	0.02	1.797	-1.274	0	-7.97	-8.22	0.11	20.99	0	0	-1.059	200.7	387.5
32	2/1/2012 12:00	1200	-7.13	69.5	1.609	144.5	14	4.33	0.04	1.641	-1.274	0	-7.94	-8.19	0.11	21	0	0	-1.042	200.6	387.4
32	2/1/2012 13:00	1300	-7.49	73	2.542	142.5	18.32	-34.57	0.045	2.155	-1.265	0	-7.92	-8.17	0.11	21	3.302	0	-1.057	200.6	387.4
32	2/1/2012 14:00	1400	-6.435	69.67	5.278	162.5	8.72	-51.93	0.094	1.496	-1.228	0	-7.89	-8.15	0.11	21	926	0	-1.029	200.6	387.4
32	2/1/2012 15:00	1500	-6.237	68.64	5.785	164.4	8.74	-42.68	0.049	1.791	-1.273	0	-7.87	-8.13	0.11	21	2595	0	-1.034	200.6	387.4
32	2/1/2012 16:00	1600	-5.718	65.48	5.048	161.6	11.7	-17.48	0.025	1.914	-1.274	0	-7.85	-8.11	0.11	21.01	1976	0	-1.041	200.6	387.4
32	2/1/2012 17:00	1700	-5.222	62.22	5.452	159.2	12.44	-17.05	0.006	1.864	-1.274	0	-7.83	-8.1	0.11	21.01	2075	0	-1.043	200.6	387.4
32	2/1/2012 18:00	1800	-5.378	64.68	5.073	157.4	13.23	-14.36	0	0	-1.273	0	-7.8	-8.08	0.11	21.01	1686	0	-1.038	200.6	387.4
32	2/1/2012 19:00	1900	-5.814	70.2	6.16	155.4	11.17	-14.42	0	0	-1.273	0	-7.78	-8.07	0.11	21.01	2373	0	-0.366	200.6	387.4
32	2/1/2012 20:00	2000	-5.492	70.5	6.968	147.7	13.25	-16.38	0	0	-1.273	0	-7.75	-8.05	0.11	21.01	1494	0	0	200.6	387.4
32	2/1/2012 21:00	2100	-5.497	70.7	7.9	162	11.2	-30.91	0	0	-1.226	0	-7.72	-8.02	0.11	21.01	1432	0	-1.076	200.6	387.4
32	2/1/2012 22:00	2200	-4.928	69.5	9.26	163.2	10.75	-32.05	0	0	-1.061	0	-7.7	-8	0.11	21.01	886	0	-1.043	200.6	387.4
32	2/1/2012 23:00	2300	-4.658	71	8.59	170.3	11.75	-29.78	0	0	-1.061	0	-7.66	-7.97	0.11	21.01	931	0	-1.08	200.6	387.4
32	2/2/2012 0:00	2400	-4.439	72	8.68	167.3	9.37	-38.86	0	0	-0.976	0	-7.63	-7.95	0.111	21.02	1126	0	-1.084	200.6	387.4
33	2/2/2012 1:00	100	-4.054	70.6	9.55	165.7	9.28	-27.48	0	0	-0.849	0	-7.6	-7.92	0.111	21.02	817	0	-1.11	200.6	387.4
33	2/2/2012 2:00	200	-3.84	71.1	9.9	167.4	8.53	-11.7	0	0	-0.76	0	-7.57	-7.89	0.111	21.03	770	0	-1.148	200.6	387.4
33	2/2/2012 3:00	300	-4.015	76.6	9.66	168	7.9	-7.41	0	0	-0.567	0	-7.54	-7.85	0.111	21.03	1001	0	-1.168	200.6	387.4
33	2/2/2012 4:00	400	-3.922	78.3	8.52	168.4	8.23	-9.8	0	0	-0.23	0	-7.5	-7.81	0.111	21.04	1586	0	-1.174	200.6	387.4
33	2/2/2012 5:00	500	-3.76	80	7.9	171.3	9.12	-5.659	0	0	0.216	0	-7.46	-7.75	0.111	21.05	1763	0	-1.14	200.6	387.4
33	2/2/2012 6:00	600	-3.897	83.1	7.57	173.2	8.79	-13.11	0	0	0.561	0	-7.42	-7.69	0.111	21.05	1695	0	-1.13	200.7	387.5
33	2/2/2012 7:00	700	-3.491	79	5.582	187	10.66	-18.27	0	0	0.828	0	-7.38	-7.63	0.111	21.06	799	0	-1.131	200.7	387.5
33	2/2/2012 8:00	800	-3.187	75.9	4.048	181.4	9.12	-30.45	0	0	0.849	0	-7.33	-7.57	0.112	21.07	905	0	-1.137	200.7	387.5
33	2/2/2012 9:00	900	-2.394	66.6	4.726	197.8	13.12	-37.72	0	0	0.849	0	-7.28	-7.52	0.112	21.07	1472	0	-1.133	200.7	387.5
33	2/2/2012 10:00	1000	-1.676	58.3	3.655	213.7	9.66	-31.41	0	0.153	0.687	0	-7.23	-7.48	0.112	21.09	65.53	0	-1.133	200.6	387.4
33	2/2/2012 11:00	1100	-1.191	55.71	4.591	224.8	13.72	-30.56	0.023	1.316	0.625	0	-7.18	-7.45	0.112	21.09	1500	0	-1.131	200.6	387.4
33	2/2/2012 12:00	1200	-0.882	53.73	4.646	239.3	10.18	-41.26	0.063	1.18	0.636	0	-7.14	-7.42	0.112	21.09	908	0	-1.133	200.6	387.4
33	2/2/2012 13:00	1300	-0.317	47.09	4.683	231.8	11.83	-31.22	0.113	1.106	0.789	0	-7.1	-7.39	0.112	21.09	2945	0	-1.133	200.6	387.4
33	2/2/2012 14:00	1400	0.425	40.9	6.409	200.6	12.37	-21.48	0.142	1.086	0.849	0	-7.06	-7.34	0.112	21.1	3697	0	-1.132	200.6	387.4
33	2/2/2012 15:00	1500	0.163	44.18	6.893	211.3	12.79	-27.34	0.114	1.148	0.936	0	-7.03	-7.3	0.113	21.11	1914	0	-1.132	200.6	387.4
33	2/2/2012 16:00	1600	-0.014	46.77	5.801	227.5	12.14	-24.16	0.088	1.174	1.056	0	-6.99	-7.26	0.113	21.11	1021	0	-1.133	200.6	387.4
33	2/2/2012 17:00	1700	-1.03	46.24	6.27	229	9	-55.62	0.017	1.378	0.917	0	-6.955	-7.23	0.113	21.12	4523	0	-1.131	200.6	387.4
33	2/2/2012 18:00	1800	-1.684	48.53	5.086	231.1	10.74	-40.78	0.002	0.721	0.849	0	-6.917	-7.2	0.113	21.13	2882	0	-1.132	200.6	387.4
33	2/2/2012 19:00	1900	-1.91	51.14	5.661	194.5	10.85	-35.77	0	0	0.662	0	-6.879	-7.18	0.113	21.13	4574	0	-1.131	200.6	387.4
33	2/2/2012 20:00	2000	-2.328	55.74	2.939	148.5	35.8	-25.97	0	0	0.451	0	-6.848	-7.17	0.113	21.14	1242	0	-1.131	200.6	387.4
33	2/2/2012 21:00	2100	-2.59	61.27	3.94	150.6	15.43	-20.86	0	0	0.334	0	-6.823	-7.16	0.113	21.14	1950	0	-1.131	200.6	387.4
33	2/2/2012 22:00	2200	-2.565	63.21	3.844	146.8	10.98	-15	0	0	0.212	0	-6.798	-7.15	0.113	21.15	1835	0	-1.132	200.6	387.4
33	2/2/2012 23:00	2300	-2.262	64.04	5.097	158.1	11.58	-10.53	0	0	0.212	0	-6.775	-7.13	0.114	21.15	4107	0	-1.131	200.6	387.4
33	2/3/2012 0:00	2400	-2.153	67.34	5.598	160.3	9.78	-7.3	0	0	0.431	0	-6.752	-7.11	0.114	21.15	3676	0	-1.132	200.6	387.4
34	2/3/2012 1:00	100	-3.077	83.2	7.03	160.1	9.81	-3.39	0	0	0.781	0	-6.728	-7.08	0.114	21.16	1598	0	-1.141	200.7	387.5
34	2/3/2012 2:00	200	-3.077	88.4	6.976	164.2	9.56	-3.337	0	0	0.858	0	-6.701	-7.03	0.114	21.16	1633	0	-1.13	200.7	387.5
34	2/3/2012 3:00	300	-1.716	77.5	6.823	161.7	10.23	-8.78	0	0	1.06	0	-6.669	-6.979	0.114	21.16	1686	0	-1.128	200.7	387.5
34	2/3/2012 4:00	400	-1.149	75.7	6.22	163.3	8.78	-28.88	0	0	1.226	0	-6.632	-6.929	0.114	21.17	1527	0	0	200.7	387.5
34	2/3/2012 5:00	500	-0.234	72.7	6.372	160	10.56	-37.73	0	0	1.318	0	-6.591	-6.879	0.114	21.18	1420	0	-1.134	200.7	387.5
34	2/3/2012 6:00	600	0.508	69.11	6.496	159.3	16.14	-51.43	0	0	1.484	0	-6.549	-6.833	0.114	21.18	1212	0	-1.132	200.7	387.5
34	2/3/2012 7:00	700	0.793	67.94	5.637	157	12.28	-41.11	0	0	1.485	0	-6.506	-6.791	0.114	21.19	1129	0	-1.132	200.6	387.4
34	2/3/2012 8:00	800	1.256	66.77	6.786	145.8	14.35	-41.15	0	0	1.485	0	-6.461	-6.752	0.114	21.19	791	0	-1.132	200.6	387.4
34	2/3/2012 9:00	900	0.547	68.24	6.282	145.1	14.05	-57.8	0	0	1.599	0	-6.417	-6.711	0.115	21.19	1302	0	-1.13	20	



Faro Meteorological Data

February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
34	2/3/2012 18:00	1800	-1.992	48.95	14.06	215.3	10.82	-79.8	0.004	0.961	1.882	0	-5.994	-6.276	0.117	21.28	1903	0	-1.096	200.7	387.5
34	2/3/2012 19:00	1900	-2.241	46.87	11.57	218.8	12.4	-71.8	0	0	1.43	0	-5.956	-6.282	0.117	21.28	2365	0	-1.091	200.6	387.4
34	2/3/2012 20:00	2000	-2.625	48.9	12.07	222.5	10.25	-55.97	0	0	1.121	0	-5.928	-6.289	0.117	21.29	2414	0	-1.075	200.6	387.4
34	2/3/2012 21:00	2100	-2.971	48.52	11.45	228.6	10.49	-63.31	0	0	0.853	0	-5.907	-6.3	0.117	21.29	3414	0	-1.072	200.6	387.4
34	2/3/2012 22:00	2200	-3.336	46.85	10.53	229.1	10.27	-71.3	0	0	0.746	0	-5.89	-6.312	0.117	21.29	4473	0	-1.084	200.6	387.4
34	2/3/2012 23:00	2300	-3.636	44.38	10.76	219.8	10.98	-78.3	0	0	0.505	0	-5.878	-6.326	0.117	21.29	3188	0	-1.08	200.7	387.5
34	2/4/2012 0:00	2400	-3.976	44	9.09	223.3	10.51	-75.7	0	0	0.089	0	-5.869	-6.348	0.117	21.3	3533	0	-1.098	200.6	387.4
35	2/4/2012 1:00	100	-4.173	41.48	5.233	224.4	11.71	-53.58	0	0	-0.429	0	-5.864	-6.383	0.117	21.3	3996	0	-1.098	200.6	387.4
35	2/4/2012 2:00	200	-4.763	42.32	4.229	209.9	11.25	-58.08	0	0	-0.865	0	-5.863	-6.423	0.117	21.31	2928	0	-1.099	200.6	387.4
35	2/4/2012 3:00	300	-5.059	42.93	3.971	229.2	13.32	-61.67	0	0	-1.263	0	-5.869	-6.468	0.117	21.3	1561	0	-1.1	200.7	387.5
35	2/4/2012 4:00	400	-5.082	43.62	4.5	230.1	16.08	-54.5	0	0	-1.697	0	-5.885	-6.52	0.117	21.3	1197	0	-1.098	200.7	387.5
35	2/4/2012 5:00	500	-5.923	48.78	3.066	227.7	11.84	-25.66	0	0	-2.08	0	-5.907	-6.575	0.117	21.3	173.7	0	-1.097	200.7	387.5
35	2/4/2012 6:00	600	-5.547	46.21	1.837	206.8	12.53	-26.13	0	0	-2.333	0	-5.937	-6.626	0.117	21.3	26.42	0	-1.098	200.7	387.5
35	2/4/2012 7:00	700	-5.953	49.14	1.389	174.7	27.88	-35.02	0	0	-2.335	0	-5.971	-6.668	0.117	21.29	100.3	0	-1.096	200.7	387.5
35	2/4/2012 8:00	800	-6.843	51.31	1.046	169.8	28.77	-22.44	0	0	-2.471	0	-6.007	-6.706	0.117	21.29	52.07	0	-1.098	200.7	387.5
35	2/4/2012 9:00	900	-6.704	50.7	2.301	194.3	11.02	-43.57	0	0	-2.77	0	-6.041	-6.75	0.117	21.28	282.4	0	-1.098	200.7	387.5
35	2/4/2012 10:00	1000	-7.34	55.97	1.958	146.4	28.22	-39.08	0	0.134	-3.081	0	-6.077	-6.8	0.117	21.28	278.1	0	-1.099	200.7	387.5
35	2/4/2012 11:00	1100	-6.713	58.89	2.117	166.7	24.64	-6.407	0.011	1.161	-3.322	0	-6.114	-6.85	0.116	21.27	276.6	0	-1.097	200.7	387.5
35	2/4/2012 12:00	1200	-6.019	62.41	3.049	205.3	22.8	-0.296	0.013	1.162	-3.396	0	-6.153	-6.894	0.116	21.26	553.2	0	-1.1	200.7	387.5
35	2/4/2012 13:00	1300	-6.945	90.3	2.215	288.6	9.01	6.351	0.048	1.226	-3.04	0	-6.193	-6.92	0.116	21.26	537.5	0	-1.097	201.2	388
35	2/4/2012 14:00	1400	-6.299	88.6	2.61	264.7	18.57	-30.33	0.118	1.215	-2.306	0	-6.226	-6.91	0.116	21.25	781	0	-1.094	201.4	388.2
35	2/4/2012 15:00	1500	-5.99	78	3.051	255.1	10.38	-46.86	0.12	1.206	-1.668	0	-6.249	-6.879	0.116	21.25	1443	0	-1.095	201.4	388.2
35	2/4/2012 16:00	1600	-5.933	73	1.539	266.3	42.49	-45.87	0.067	1.378	-1.29	0	-6.262	-6.845	0.116	21.25	348.2	0	-1.097	201.4	388.2
35	2/4/2012 17:00	1700	-5.85	71.2	0.338	116.8	10.64	-39.14	0.028	1.616	-1.119	0	-6.267	-6.819	0.116	21.25	2.286	0	-1.103	201.4	388.2
35	2/4/2012 18:00	1800	-9.32	78.3	1.576	48.09	16.05	-44.67	0.003	1.495	-1.36	0	-6.264	-6.808	0.116	21.25	344.2	0	-1.095	201.5	388.3
35	2/4/2012 19:00	1900	-10.84	80.8	2.229	29.18	5.861	-41.93	0	0	-1.85	0	-6.26	-6.821	0.116	21.25	273	0	-1.093	201.5	388.3
35	2/4/2012 20:00	2000	-11.55	80.3	2.173	18.15	7.19	-43.63	0	0	-2.325	0	-6.257	-6.85	0.116	21.25	641.9	0	-1.09	201.5	388.3
35	2/4/2012 21:00	2100	-12.1	77.5	1.507	13.6	9.37	-42.77	0	0	-2.698	0	-6.261	-6.886	0.116	21.25	84.6	0	-1.094	201.5	388.3
35	2/4/2012 22:00	2200	-12.49	78	1.541	13.88	11.76	-41.48	0	0	-3.068	0	-6.274	-6.928	0.116	21.25	26.42	0	-1.095	201.5	388.3
35	2/4/2012 23:00	2300	-12.34	79.7	1.002	334.4	30.71	-37.22	0	0	-3.437	0	-6.292	-6.977	0.116	21.25	0	0	-1.092	201.5	388.3
35	2/5/2012 0:00	2400	-12.54	76.4	1.6	19.19	21.28	-41.81	0	0	-3.833	0	-6.317	-7.03	0.116	21.24	0	0	-1.095	201.5	388.3
36	2/5/2012 1:00	100	-12.09	71.6	1.406	354.3	24.11	-39.92	0	0	-4.244	0	-6.35	-7.09	0.116	21.24	0	0	-1.093	201.4	388.2
36	2/5/2012 2:00	200	-12.15	69.12	1.806	47.35	23.47	-48.61	0	0	-4.581	0	-6.386	-7.16	0.115	21.23	195.8	0	-1.105	201.4	388.2
36	2/5/2012 3:00	300	-11.96	65.68	1.029	2.487	47.4	-39.12	0	0	-4.874	0	-6.43	-7.23	0.115	21.22	75.2	0	-1.098	201.4	388.2
36	2/5/2012 4:00	400	-11.66	61.11	1.363	17.05	26.2	-45.69	0	0	-5.104	0	-6.476	-7.29	0.115	21.23	156	0	-1.096	201.4	388.2
36	2/5/2012 5:00	500	-11.78	63.11	0.887	70.7	46.02	-45.53	0	0	-5.337	0	-6.526	-7.35	0.115	21.22	10.67	0	-1.095	201.4	388.2
36	2/5/2012 6:00	600	-9.82	55.14	1.292	43.02	39.99	-54.45	0	0	-5.551	0	-6.577	-7.42	0.115	21.21	138.9	0	-1.087	201.4	388.2
36	2/5/2012 7:00	700	-10.26	60.52	0.908	319.6	45.53	-39.18	0	0	-5.733	0	-6.631	-7.48	0.115	21.2	58.93	0	-1.097	201.4	388.2
36	2/5/2012 8:00	800	-10.16	59.56	1.873	358.2	13.85	-51.38	0	0	-5.897	0	-6.687	-7.54	0.115	21.2	241	0	-1.095	201.4	388.2
36	2/5/2012 9:00	900	-9.78	66	1.824	318.9	42.77	-42.03	0	0	-5.967	0	-6.743	-7.6	0.114	21.19	149.6	0	-1.095	201.4	388.2
36	2/5/2012 10:00	1000	-8.73	57.49	1.76	335.9	61.12	-51.36	0.001	0.669	-6.15	0	-6.8	-7.66	0.114	21.18	330.2	0	-1.093	201.4	388.2
36	2/5/2012 11:00	1100	-8.63	52.94	1.564	14.77	40.61	-40.18	0.031	1.262	-6.05	0	-6.856	-7.71	0.114	21.17	151.6	0	-1.094	201.4	388.2
36	2/5/2012 12:00	1200	-6.663	43.9	1.116	53.15	71.1	-24.41	0.085	1.117	-5.829	0	-6.909	-7.75	0.114	21.16	5.842	0	-1.107	201.4	388.2
36	2/5/2012 13:00	1300	-4.653	34.72	0.665	76.4	49.64	-15.15	0.117	1.121	-5.572	0	-6.956	-7.77	0.114	21.15	0	0	-1.099	201.3	388.1
36	2/5/2012 14:00	1400	-5.958	43.63	3.205	143.9	20.25	-30.26	0.129	1.139	-5.345	0	-7	-7.79	0.113	21.14	9.4	0	-1.094	201.3	388.1
36	2/5/2012 15:00	1500	-5.325	39.38	1.966	67.93	38.91	-32.4	0.118	1.198	-5.307	0	-7.04	-7.81	0.113	21.14	0.508	0	-1.094	201.3	388.1
36	2/5/2012 16:00	1600	-4.672	31.19	2.205	151	36.11	-40.57	0.08	1.298	-5.119	0	-7.08	-7.83	0.113	21.13	212.1	0	-1.094	201.3	388.1
36	2/5/2012 17:00	1700	-5.642	35.36	2.557	139.1	45.97	-46.65	0.049	1.412	-4.881	0	-7.1	-7.83	0.113	21.13	72.9	0	-1.094	201.4	388.2
36	2/5/2012 18:00	1800	-6.67	37.94	2.428	154.2	59.92	-57.25	0.006	1.333	-4.711	0	-7.13	-7.83	0.113	21.12	219.7	0	-1.092	201.4	388.2
36	2/5/2012 19:00	1900	-7.68	36.01	1.533	63.59	63.2	-52.32	0	0	-4.67	0	-7.14	-7.84	0.113	21.13	366.5	0	-1.094	201.4	388.2
36	2/5/2012 20:00	2000	-7.68	36.55	2.231	26.49	34.36	-52.08	0	0	-4.67	0	-7.15	-7.84	0.113	21.12	51.82	0	-1.095	201.4	388.2
36	2/5/2012 21:00	2100	-7.19	37.13	2.112	20.64	33.07	-48.36	0	0	-4.67	0	-7.16	-7.85	0.113	21.12	31.5	0	-1.089	201.4	388.2
36	2/5/2012 22:00	2200	-6.62	35.65	1.759	153.6	53.45	-48.96	0	0	-4.67	0	-7.17	-7.86	0.113	21.13	66.55	0	-1.095	201.4	388.2
36	2/5/2012 23:00	2300	-8.03	40.27	2.287	61.36	48.4	-51.19	0	0	-4.67	0	-7.18	-7.87	0.113	21.12	73.2	0	-1.093	201.4	388.2
36	2/6/2012 0:00	2400	-8.07	40.43	2.327	61.23	32.98	-51.97	0	0	-4.694	0	-7.2	-7.89	0.113	21.12	52.83	0	-1.094	201.4	388.2
37	2/6/2012 1:00	100	-7.86	39.43	1.932	59.4	45.98	-47.11	0	0	-4.716	0	-7.22	-7.91	0.113	21.11	2.286	0	-1.09	201.4	388.2
37	2/6/2012 2:00	200	-7.51	41.86	1.965	36.17	25.29	-46.16	0	0	-4.721	0	-7.23	-7.92	0.113						



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
37	2/6/2012 12:00	1200	-6.852	67.17	2.843	140.2	26.08	8.3	0.036	1.156	-5.523	0	-7.47	-8.19	0.112	21.09	250.2	0	-1.093	201.3	388.1
37	2/6/2012 13:00	1300	-5.941	65.67	2.104	182	41.82	9.41	0.074	1.13	-4.923	0	-7.5	-8.19	0.112	21.08	10.16	0	-1.093	201.3	388.1
37	2/6/2012 14:00	1400	-5.273	64.56	3.816	168	11.6	3.185	0.086	1.139	-4.038	0	-7.52	-8.15	0.112	21.08	570.7	0	-1.092	201.3	388.1
37	2/6/2012 15:00	1500	-5.005	61.09	4.259	159	8.44	-23.67	0.11	1.185	-3.252	0	-7.52	-8.09	0.112	21.08	782	0	-1.093	201.3	388.1
37	2/6/2012 16:00	1600	-5.906	60.89	3.355	163.8	9.91	-37.61	0.046	1.296	-2.661	0	-7.51	-8.03	0.112	21.08	396.7	0	-1.094	201.3	388.1
37	2/6/2012 17:00	1700	-5.841	56.98	1.302	87.2	34.69	-30.92	0.041	1.394	-2.347	0	-7.49	-7.97	0.112	21.08	0	0	-1.099	201.3	388.1
37	2/6/2012 18:00	1800	-6.957	63.64	0.965	353.3	42.28	-7.92	0.007	0.985	-2.335	0	-7.46	-7.92	0.112	21.09	0	0	-1.093	201.4	388.2
37	2/6/2012 19:00	1900	-8.18	65.03	1.252	150.2	21.81	-3.575	0	0	-2.496	0	-7.43	-7.89	0.112	21.09	0	0	-1.092	201.4	388.2
37	2/6/2012 20:00	2000	-9	71.6	1.156	65.16	12.4	-7.76	0	0	-2.547	0	-7.4	-7.87	0.112	21.09	0	0	-1.092	201.4	388.2
37	2/6/2012 21:00	2100	-9.5	72.5	1.026	109.2	36.71	-17.26	0	0	-2.547	0	-7.37	-7.85	0.112	21.1	0	0	0	201.4	388.2
37	2/6/2012 22:00	2200	-9.74	77.7	1.074	95.2	24.1	-33.93	0	0	-2.547	0	-7.35	-7.83	0.112	21.1	0	0	-1.092	201.4	388.2
37	2/6/2012 23:00	2300	-10.13	81.9	0.904	169.2	55.52	-24.7	0	0	-2.619	0	-7.33	-7.82	0.112	21.1	0	0	-1.092	201.4	388.2
37	2/7/2012 0:00	2400	-9.7	79.1	1.043	165.6	42.54	1.357	0	0	-2.916	0	-7.31	-7.82	0.113	21.11	0	0	-1.091	201.4	388.2
38	2/7/2012 1:00	100	-9.3	75	0.748	62.82	45.91	0.17	0	0	-3.184	0	-7.29	-7.83	0.113	21.11	0	0	-1.102	201.4	388.2
38	2/7/2012 2:00	200	-9.03	76.6	0.621	47.61	18.59	-4.371	0	0	-3.184	0	-7.28	-7.84	0.113	21.11	0	0	-1.105	201.4	388.2
38	2/7/2012 3:00	300	-8.95	75.8	0.598	314.5	12.97	-8.07	0	0	-3.045	0	-7.28	-7.84	0.113	21.11	0	0	-1.105	201.4	388.2
38	2/7/2012 4:00	400	-9.65	77.6	0.72	220.2	37.04	-1.856	0	0	-2.906	0	-7.27	-7.83	0.113	21.11	0	0	-1.107	201.4	388.2
38	2/7/2012 5:00	500	-10.3	80.7	0.755	141	49.08	-9.11	0	0	-2.759	0	-7.26	-7.81	0.113	21.11	0	0	-1.093	201.4	388.2
38	2/7/2012 6:00	600	-10.4	81.7	0.386	42.57	37.13	-3.563	0	0	-2.759	0	-7.26	-7.8	0.113	21.11	0	0	-1.091	201.4	388.2
38	2/7/2012 7:00	700	-10.26	80.8	1.058	109.7	18.87	-2.665	0	0	-2.758	0	-7.24	-7.78	0.113	21.11	0	0	-1.092	201.4	388.2
38	2/7/2012 8:00	800	-9.86	79.9	0.777	226.5	21.81	-1.159	0	0	-2.633	0	-7.23	-7.77	0.113	21.12	0	0	-1.091	201.4	388.2
38	2/7/2012 9:00	900	-9.72	80.8	0.377	56.68	42.88	-11.28	0	0	-2.547	0	-7.22	-7.76	0.113	21.12	0	0	-1.097	201.4	388.2
38	2/7/2012 10:00	1000	-10.44	83	0.44	146	48.6	-12.03	0.002	0.585	-2.546	0	-7.21	-7.74	0.113	21.12	0	0	-1.092	201.4	388.2
38	2/7/2012 11:00	1100	-10.25	83.7	0.811	53.37	26.52	0.314	0.016	1.178	-2.543	0	-7.2	-7.73	0.113	21.12	0	0	-1.092	201.4	388.2
38	2/7/2012 12:00	1200	-9.64	79.8	0.637	116	29.22	-16.83	0.043	1.188	-2.483	0	-7.18	-7.72	0.113	21.12	0	0	-1.104	201.4	388.2
38	2/7/2012 13:00	1300	-8.73	78.4	0.644	82.2	13.72	4.904	0.066	1.143	-2.335	0	-7.17	-7.71	0.113	21.12	0	0	-1.096	201.4	388.2
38	2/7/2012 14:00	1400	-7.11	72.9	0.39	72.9	22.48	11.84	0.086	1.13	-2.326	0	-7.16	-7.69	0.113	21.12	0	0	-1.093	201.4	388.2
38	2/7/2012 15:00	1500	-7.72	76.5	0.47	25.68	22.5	7.97	0.063	1.143	-2.132	0	-7.15	-7.68	0.113	21.13	0	0	-1.094	201.3	388.1
38	2/7/2012 16:00	1600	-7.43	76.5	0.415	317.6	15.52	5.792	0.048	1.141	-1.993	0	-7.14	-7.65	0.113	21.13	0	0	-1.093	201.3	388.1
38	2/7/2012 17:00	1700	-7.93	77.2	0.629	297.8	29.91	-0.955	0.026	1.164	-1.778	0	-7.13	-7.63	0.113	21.12	0	0	-1.093	201.4	388.2
38	2/7/2012 18:00	1800	-8.57	80.4	0.57	108.3	38.45	-22.01	0.006	1.197	-1.698	0	-7.12	-7.6	0.113	21.12	0	0	-1.104	201.4	388.2
38	2/7/2012 19:00	1900	-9.79	83.3	1.331	293.7	11.75	-43.62	0	0	-1.698	0	-7.1	-7.58	0.113	21.13	0	0	-1.096	201.4	388.2
38	2/7/2012 20:00	2000	-10.92	88.2	0.839	169	32.35	-42.82	0	0	-1.889	0	-7.08	-7.56	0.113	21.14	0	0	-1.114	201.4	388.2
38	2/7/2012 21:00	2100	-11.47	88	0.527	83.5	31.1	-37.42	0	0	-2.457	0	-7.06	-7.57	0.113	21.13	0	0	-1.103	201.4	388.2
38	2/7/2012 22:00	2200	-11.73	88.7	0.64	329.7	53.75	-36.56	0	0	-3.141	0	-7.05	-7.61	0.113	21.14	0	0	-1.096	201.4	388.2
38	2/7/2012 23:00	2300	-11.5	84.7	1.026	359.2	29.7	-17.28	0	0	-3.806	0	-7.05	-7.67	0.113	21.14	0	0	-1.094	201.4	388.2
38	2/8/2012 0:00	2400	-11	85	0.464	119.5	29.74	5.391	0	0	-4.335	0	-7.06	-7.73	0.113	21.13	0	0	-1.092	201.4	388.2
39	2/8/2012 1:00	100	-9.73	80.9	0.462	349.3	41.8	7.81	0	0	-4.495	0	-7.09	-7.79	0.113	21.12	0	0	-1.091	201.4	388.2
39	2/8/2012 2:00	200	-9.24	80.9	0.561	87.7	19.48	5.779	0	0	-4.368	0	-7.12	-7.83	0.113	21.12	0	0	0	201.4	388.2
39	2/8/2012 3:00	300	-9.37	86.7	0.64	94.5	23.74	4.17	0	0	-3.976	0	-7.15	-7.84	0.113	21.12	0	0	0	201.6	388.4
39	2/8/2012 4:00	400	-8.94	88.4	0.713	97.9	26.43	4.4	0	0	-3.524	0	-7.17	-7.83	0.113	21.12	0	0	0	201.7	388.5
39	2/8/2012 5:00	500	-8.57	90.3	0.496	17.47	25.96	2.741	0	0	-3.097	0	-7.18	-7.8	0.113	21.12	0	0	-1.096	201.8	388.6
39	2/8/2012 6:00	600	-8.55	90.3	0.963	84	11.22	-2	0	0	-2.73	0	-7.18	-7.77	0.113	21.12	0	0	-1.099	201.7	388.5
39	2/8/2012 7:00	700	-8.66	89.5	1.055	71.7	13.75	-7.81	0	0	-2.417	0	-7.18	-7.74	0.113	21.12	0	0	-1.098	201.7	388.5
39	2/8/2012 8:00	800	-7.74	87.8	0.974	12.93	16.69	-12.68	0	0	-2.198	0	-7.17	-7.7	0.113	21.11	0	0	0	201.7	388.5
39	2/8/2012 9:00	900	-7.24	84.7	0.803	293	25.37	-13.35	0	0	-2.123	0	-7.15	-7.67	0.113	21.12	0	0	-1.102	201.8	388.6
39	2/8/2012 10:00	1000	-7.68	81.4	1.046	84.5	44.54	-22.85	0.002	0.924	-2.123	0	-7.13	-7.65	0.113	21.13	0	0	-0.389	201.8	388.6
39	2/8/2012 11:00	1100	-6.189	72.6	0.582	113.3	62.98	-24.65	0.039	1.167	-2.123	0	-7.11	-7.63	0.113	21.12	0	0	-0.433	201.8	388.6
39	2/8/2012 12:00	1200	-5.098	64.87	1.529	115.4	24.44	-34.87	0.091	1.102	-2.272	0	-7.1	-7.62	0.113	21.13	0	0	-1.097	201.8	388.6
39	2/8/2012 13:00	1300	-3.571	56.48	1.384	91.2	40.11	-52.41	0.143	1.116	-2.335	0	-7.08	-7.61	0.113	21.12	0	0	-1.099	201.7	388.5
39	2/8/2012 14:00	1400	-1.346	48.99	1.692	96.7	20.39	-65.19	0.183	1.117	-2.213	0	-7.07	-7.6	0.113	21.13	0	0	-1.095	201.7	388.5
39	2/8/2012 15:00	1500	-0.057	47.51	1.121	133	41.69	-84.3	0.158	1.178	-2.09	0	-7.06	-7.59	0.113	21.13	0	0	-1.101	201.7	388.5
39	2/8/2012 16:00	1600	0.351	43.8	1.166	223	31.17	-80.7	0.119	1.271	-1.91	0	-7.05	-7.57	0.113	21.13	0	0	-1.093	201.7	388.5
39	2/8/2012 17:00	1700	-0.155	45.24	1.152	142.4	36.1	-73.9	0.066	1.428	-1.902	0	-7.04	-7.55	0.113	21.13	1.016	0	-1.095	201.7	388.5
39	2/8/2012 18:00	1800	-1.78	50.46	1.636	198	43.65	-74.9	0.01	1.698	-1.91	0	-7.02	-7.53	0.113	21.13	0	0	-1.087	201.8	388.6
39	2/8/2012 19:00	1900	-2.604	51.79	1.894	104.1	52.23	-58.4	0	0.006	-2.024	0	-7.01	-7.53	0.113	21.13	14.73	0	-1.084	201.8	388.6
39	2/8/2012 20:00	2000	-3.426	54.73	2.557	125.6	36.78	-51.79	0	0	-2.125	0	-6.991	-7.52	0.113	21.13	260.1	0	-1.087	201.8	388.6
39	2/8/2012 21:00	2100	-4.757	56.73	1.436	52.05	22.27	-39	0	0	-2.327	0	-6.978	-7.52	0.113	21.14	0	0	-1.089	201.8</	



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
40	2/9/2012 6:00	600	-7.15	62.67	2.125	115.2	10.9	-38.72	0	0	-3.45	0	-6.986	-7.63	0.113	21.14	0	0	-1.09	201.8	388.6
40	2/9/2012 7:00	700	-7.06	62.69	1.226	118.1	19.96	-33.82	0	0	-3.609	0	-6.998	-7.66	0.113	21.13	0	0	-1.091	201.8	388.6
40	2/9/2012 8:00	800	-6.909	62.89	2.271	121.2	26.59	-43.95	0	0	-3.718	0	-7.01	-7.68	0.113	21.14	27.69	0	-1.088	201.8	388.6
40	2/9/2012 9:00	900	-7.15	63.43	1.797	137.9	16.5	-40.01	0	0	-3.92	0	-7.02	-7.7	0.113	21.13	0	0	-1.091	201.8	388.6
40	2/9/2012 10:00	1000	-8.19	66.74	1.784	121	11.94	-35.67	0.002	0.912	-4.033	0	-7.04	-7.73	0.113	21.13	0	0	-1.09	201.8	388.6
40	2/9/2012 11:00	1100	-7.4	64.26	1.758	127.8	11.04	-24.24	0.042	1.195	-4.033	0	-7.06	-7.75	0.113	21.13	0	0	-1.09	201.8	388.6
40	2/9/2012 12:00	1200	-5.673	59.13	2.126	126.6	15.17	-14.03	0.101	1.114	-4.033	0	-7.07	-7.77	0.113	21.12	2.032	0	-1.092	201.8	388.6
40	2/9/2012 13:00	1300	-4.462	52.93	1.708	99.2	23.37	-5.38	0.144	1.1	-4.022	0	-7.09	-7.79	0.113	21.12	0	0	-1.094	201.7	388.5
40	2/9/2012 14:00	1400	-3.786	52	1.121	128	16.2	-2.396	0.164	1.099	-3.769	0	-7.1	-7.79	0.113	21.12	0	0	-1.1	201.7	388.5
40	2/9/2012 15:00	1500	-2.451	46.42	0.9	68.2	37.46	-8.99	0.152	1.157	-3.497	0	-7.11	-7.79	0.113	21.12	0	0	-1.093	201.7	388.5
40	2/9/2012 16:00	1600	-2.936	51.56	2.399	138.6	26.61	-23.45	0.117	1.271	-3.262	0	-7.12	-7.78	0.113	21.12	96.8	0	-1.088	201.7	388.5
40	2/9/2012 17:00	1700	-2.913	51.55	1.478	89.6	36.83	-27.59	0.064	1.437	-3.183	0	-7.12	-7.77	0.113	21.12	0	0	-1.094	201.7	388.5
40	2/9/2012 18:00	1800	-4.573	58.92	0.573	136.8	52.18	-29.5	0.009	1.481	-3.046	0	-7.12	-7.76	0.113	21.13	0	0	-1.09	201.8	388.6
40	2/9/2012 19:00	1900	-5.984	64.98	0.732	43.73	50.17	-29.32	0	0.009	-2.973	0	-7.12	-7.75	0.113	21.13	0	0	-1.092	201.8	388.6
40	2/9/2012 20:00	2000	-5.122	65.13	1.91	131.4	33.49	-39.73	0	0	-3.168	0	-7.11	-7.74	0.113	21.13	4.826	0	-1.089	201.8	388.6
40	2/9/2012 21:00	2100	-3.967	63.44	2.985	153.4	19.36	-40.69	0	0	-3.405	0	-7.1	-7.75	0.113	21.13	149.1	0	-1.088	201.8	388.6
40	2/9/2012 22:00	2200	-3.99	62.3	3.539	154.2	23.17	-25.34	0	0	-3.59	0	-7.1	-7.76	0.113	21.13	813	0	-1.087	201.7	388.5
40	2/9/2012 23:00	2300	-4.44	62.23	3.562	168.4	24.44	-9.58	0	0	-3.412	0	-7.09	-7.76	0.113	21.12	1095	0	-1.087	201.8	388.6
40	2/10/2012 0:00	2400	-4.365	62.5	3.291	140.3	17.47	-10.48	0	0	-3.068	0	-7.09	-7.75	0.113	21.12	627.1	0	-1.086	201.7	388.5
41	2/10/2012 1:00	100	-3.701	60.86	3.314	137.3	17.56	-15.43	0	0	-2.581	0	-7.09	-7.72	0.113	21.12	454.7	0	-1.087	201.7	388.5
41	2/10/2012 2:00	200	-3.512	62.33	3.122	140.5	30	-12.13	0	0	-2.165	0	-7.08	-7.68	0.113	21.12	401.8	0	-1.088	201.7	388.5
41	2/10/2012 3:00	300	-3.325	64.62	2.058	164	46.75	-6.838	0	0	-1.803	0	-7.06	-7.63	0.113	21.13	445	0	-1.086	201.7	388.5
41	2/10/2012 4:00	400	-3.776	70.5	2.885	141.2	20.69	-19.35	0	0	-1.522	0	-7.03	-7.58	0.113	21.13	192.5	0	-1.088	201.7	388.5
41	2/10/2012 5:00	500	-3.795	69.75	3.686	137.8	14.28	-41.08	0	0	-1.245	0	-7.01	-7.53	0.113	21.13	16.76	0	-1.088	201.7	388.5
41	2/10/2012 6:00	600	-3.55	69.68	4.824	152.2	10.65	-32.08	0	0	-1.061	0	-6.973	-7.48	0.113	21.14	1228	0	-1.089	201.7	388.5
41	2/10/2012 7:00	700	-3.026	66.82	7.14	164	9.26	-68.69	0	0	-1.061	0	-6.938	-7.45	0.113	21.14	1980	0	-1.099	201.7	388.5
41	2/10/2012 8:00	800	-3.771	68	5.263	173.6	10.69	-66.15	0	0	-1.061	0	-6.906	-7.41	0.113	21.14	857	0	-1.098	201.7	388.5
41	2/10/2012 9:00	900	-3.346	65.16	5.406	168.3	9.33	-64.37	0	0	-1.065	0	-6.873	-7.38	0.114	21.15	1985	0	-1.098	201.7	388.5
41	2/10/2012 10:00	1000	-3.731	66.29	6.695	172.7	10.45	-66.6	0.002	0.841	-1.278	0	-6.841	-7.36	0.114	21.16	1978	0	-1.098	201.7	388.5
41	2/10/2012 11:00	1100	-4.307	67.88	5.53	168.6	9.7	-58.87	0.018	1.355	-1.394	0	-6.812	-7.35	0.114	21.16	2090	0	-1.097	201.8	388.6
41	2/10/2012 12:00	1200	-4.394	67.19	5.214	169.5	9.17	-50.77	0.04	1.199	-1.273	0	-6.787	-7.33	0.114	21.16	1922	0	-1.097	201.7	388.5
41	2/10/2012 13:00	1300	-3.652	61.25	4.706	167.7	8.1	-24.37	0.107	1.092	-1.242	0	-6.762	-7.31	0.114	21.17	2341	0	-1.1	201.7	388.5
41	2/10/2012 14:00	1400	-2.603	56.2	4.841	170.5	8.37	-17.75	0.143	1.043	-1.035	0	-6.739	-7.28	0.114	21.17	1182	0	-1.099	201.7	388.5
41	2/10/2012 15:00	1500	-2.003	52.86	6.03	171.9	9.63	-20.74	0.157	1.059	-0.699	0	-6.716	-7.25	0.114	21.17	1550	0	-1.1	201.7	388.5
41	2/10/2012 16:00	1600	-2.498	55.63	6.254	170.8	8.55	-34.09	0.109	1.154	-0.442	0	-6.697	-7.21	0.114	21.18	1734	0	-1.098	201.7	388.5
41	2/10/2012 17:00	1700	-2.837	56.55	6.381	170.8	7.27	-44.18	0.058	1.255	-0.325	0	-6.675	-7.17	0.114	21.18	1425	0	-1.099	201.7	388.5
41	2/10/2012 18:00	1800	-3.716	58.76	4.877	173.6	8.36	-61.34	0.011	1.557	-0.481	0	-6.649	-7.14	0.114	21.18	1896	0	-1.098	201.7	388.5
41	2/10/2012 19:00	1900	-4.022	59.77	5.6	170.1	7.98	-48.78	0	0	-0.797	0	-6.622	-7.13	0.114	21.18	2804	0	-1.098	201.7	388.5
41	2/10/2012 20:00	2000	-3.867	59.13	4.519	169.5	8.51	-29.67	0	0	-1.199	0	-6.597	-7.13	0.115	21.19	2648	0	-1.098	201.7	388.5
41	2/10/2012 21:00	2100	-4.345	60.45	4.066	166.1	11.06	-57.87	0	0	-1.273	0	-6.575	-7.13	0.115	21.19	2401	0	-1.098	201.8	388.6
41	2/10/2012 22:00	2200	-5.154	62.97	1.653	133	31.66	-53.27	0	0	-1.285	0	-6.557	-7.12	0.115	21.2	215.9	0	-1.099	201.8	388.6
41	2/10/2012 23:00	2300	-5.262	62.37	1.115	98.8	40.89	-36.99	0	0	-1.562	0	-6.543	-7.12	0.115	21.2	25.4	0	-1.099	201.8	388.6
41	2/11/2012 0:00	2400	-5.119	62.57	2.687	156	14.71	-45.2	0	0	-1.964	0	-6.532	-7.14	0.115	21.2	918	0	-1.099	201.8	388.6
42	2/11/2012 1:00	100	-5.15	62.65	2.258	157.7	15.8	-36.08	0	0	-2.39	0	-6.529	-7.17	0.115	21.2	574.3	0	-1.098	201.8	388.6
42	2/11/2012 2:00	200	-5.714	64.18	1.668	129.6	18.68	-37.81	0	0	-2.566	0	-6.535	-7.2	0.115	21.2	254.8	0	-1.099	201.8	388.6
42	2/11/2012 3:00	300	-6.867	66.03	1.47	40.1	27.54	-36.73	0	0	-2.751	0	-6.545	-7.23	0.115	21.2	24.64	0	-1.101	201.8	388.6
42	2/11/2012 4:00	400	-6.398	62.83	1.266	46.71	49.83	-27.99	0	0	-2.763	0	-6.558	-7.25	0.115	21.2	4.064	0	-1.097	201.8	388.6
42	2/11/2012 5:00	500	-5.404	58.84	1.065	147.8	45.24	-25.47	0	0	-2.956	0	-6.572	-7.27	0.115	21.19	9.65	0	-1.098	201.8	388.6
42	2/11/2012 6:00	600	-5.557	57.86	1.212	149.1	33.16	-26.84	0	0	-3.028	0	-6.59	-7.29	0.115	21.19	4.064	0	-1.098	201.8	388.6
42	2/11/2012 7:00	700	-5.006	55.33	1.567	160.2	33.26	-17.6	0	0	-3.184	0	-6.608	-7.31	0.114	21.19	247.6	0	-1.098	201.8	388.6
42	2/11/2012 8:00	800	-4.525	53.9	2.421	173.1	22.45	-13.74	0	0	-3.183	0	-6.626	-7.33	0.114	21.18	935	0	-1.098	201.8	388.6
42	2/11/2012 9:00	900	-4.147	53.89	2.094	142.9	28.53	-11.57	0	0	-2.971	0	-6.644	-7.34	0.114	21.19	543.8	0	-1.098	201.7	388.5
42	2/11/2012 10:00	1000	-4.077	51.49	2.342	153.4	25.31	-41.53	0.003	0.798	-2.636	0	-6.66	-7.33	0.114	21.18	1051	0	-1.098	201.8	388.6
42	2/11/2012 11:00	1100	-3.619	49.14	3.247	154.8	15.76	-30.23	0.028	1.149	-2.268	0	-6.667	-7.31	0.114	21.18	1275	0	-1.102	201.7	388.5
42	2/11/2012 12:00	1200	-3.248	47	1.774	133.2	33.25	-21.37	0.055	1.078	-2.055	0	-6.666	-7.29	0.114	21.18	173.2	0	-1.1	201.7	388.5
42	2/11/2012 13:00	1300	-2.583	45.29	2.709	155.9	14.71	-12.53	0.1	1.04	-1.721	0	-6.659	-7.26	0.114	21.18	442.7	0	-1.099	201.7	388.5
42	2/11/2012 14:00	1400	-2.372	43.93	2.38	165.3	48.78	-13.53	0.086	1.061	-1.394	0	-6.651								



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
42	2/12/2012 0:00	2400	-3.107	48.41	5.198	155.7	13.5	-31.94	0	0	-1.919	0	-6.47	-7.07	0.115	21.21	3498	0	-1.099	201.7	388.5
43	2/12/2012 1:00	100	-2.514	46.83	7.73	165.4	9.39	-44.85	0	0	-2.078	0	-6.46	-7.07	0.115	21.21	858	0	-1.099	201.7	388.5
43	2/12/2012 2:00	200	-3.036	49.43	7.19	170.9	9.54	-51.02	0	0	-1.593	0	-6.455	-7.06	0.115	21.21	1248	0	-1.099	201.7	388.5
43	2/12/2012 3:00	300	-3.672	53.5	6.386	167.5	9.38	-58.53	0	0	-1.278	0	-6.447	-7.03	0.115	21.21	1037	0	-1.099	201.7	388.5
43	2/12/2012 4:00	400	-3.861	60.36	5.349	171.4	9.63	-58.39	0	0	-1.416	0	-6.435	-7.01	0.115	21.21	1522	0	-1.098	201.8	388.6
43	2/12/2012 5:00	500	-3.6	65.64	5.801	162.4	9.48	-61.51	0	0	-1.543	0	-6.42	-7.01	0.115	21.21	1431	0	-1.099	201.8	388.6
43	2/12/2012 6:00	600	-3.603	68.17	6.706	169.7	8.21	-65.23	0	0	-1.698	0	-6.406	-7	0.115	21.21	1671	0	-1.099	201.7	388.5
43	2/12/2012 7:00	700	-3.873	67.34	3.963	168.9	9.68	-59.56	0	0	-1.542	0	-6.394	-6.994	0.115	21.22	1423	0	-1.097	201.8	388.6
43	2/12/2012 8:00	800	-4.083	66.91	3.45	191.3	18.33	-52.43	0	0	-1.486	0	-6.383	-6.981	0.115	21.22	1965	0	-1.097	201.8	388.6
43	2/12/2012 9:00	900	-3.635	65.77	4.041	178.5	9.84	-56.42	0	0	-1.574	0	-6.372	-6.973	0.115	21.22	2779	0	-1.098	201.8	388.6
43	2/12/2012 10:00	1000	-3.79	66.01	3.239	179.4	14.26	-22.86	0.004	0.67	-1.698	0	-6.363	-6.974	0.115	21.22	1974	0	-1.098	201.7	388.5
43	2/12/2012 11:00	1100	-3.166	60.18	3.978	220.7	15.22	-6.515	0.03	1.067	-1.638	0	-6.356	-6.969	0.115	21.22	403.9	0	-1.099	201.7	388.5
43	2/12/2012 12:00	1200	-2.817	54.72	6.581	230.2	11.93	3.586	0.064	1.065	-1.226	0	-6.348	-6.946	0.115	21.22	1690	0	-1.098	201.7	388.5
43	2/12/2012 13:00	1300	-3.075	53.16	6.327	225.7	16.09	0.513	0.051	1.104	-0.605	0	-6.34	-6.905	0.115	21.22	3086	0	-1.1	201.7	388.5
43	2/12/2012 14:00	1400	-3.638	58.93	7.34	246.8	13.59	6.947	0.059	1.112	-0.17	0	-6.326	-6.854	0.115	21.23	1923	0	-1.099	201.7	388.5
43	2/12/2012 15:00	1500	-4.526	71.1	7.26	249.6	12.96	8.69	0.064	1.105	0.182	0	-6.306	-6.799	0.115	21.23	926	0	-1.099	201.7	388.5
43	2/12/2012 16:00	1600	-5.176	79.7	8.19	240.8	10.87	10.96	0.077	1.095	0.521	0	-6.281	-6.744	0.115	21.22	2639	0	-1.1	201.8	388.6
43	2/12/2012 17:00	1700	-5.456	80.8	9.48	241.2	11.63	1.158	0.039	1.093	0.629	0	-6.25	-6.696	0.116	21.24	1714	0	0	201.8	388.6
43	2/12/2012 18:00	1800	-5.536	79.2	8.06	241.3	9.86	-18.39	0.012	1.207	0.425	0	-6.218	-6.661	0.116	21.24	3333	0	-1.105	201.8	388.6
43	2/12/2012 19:00	1900	-5.553	78.4	5.582	256.9	23.56	-24.42	0	0.05	0.134	0	-6.184	-6.639	0.116	21.24	760	0	-0.43	201.8	388.6
43	2/12/2012 20:00	2000	-5.819	79.9	2.976	301.3	25.4	-21.15	0	0	-0.14	0	-6.153	-6.628	0.116	21.24	1.016	0	-1.099	201.8	388.6
43	2/12/2012 21:00	2100	-5.826	78.9	2.626	296.5	27.31	-16.17	0	0	-0.399	0	-6.126	-6.625	0.116	21.25	0.762	0	-1.095	201.8	388.6
43	2/12/2012 22:00	2200	-5.769	75.7	3.51	289.3	31.53	-31.08	0	0	-0.635	0	-6.102	-6.627	0.116	21.25	50.8	0	-1.101	201.8	388.6
43	2/12/2012 23:00	2300	-5.733	70.2	2.745	308.3	35.72	-36.21	0	0	-0.81	0	-6.086	-6.63	0.116	21.26	17.02	0	-1.099	201.8	388.6
43	2/13/2012 0:00	2400	-5.939	67.52	2.926	294.4	44.32	-48.68	0	0	-1.02	0	-6.074	-6.64	0.116	21.26	38.86	0	-1.097	201.8	388.6
44	2/13/2012 1:00	100	-6.121	65.32	2.515	311.7	58.94	-45.94	0	0	-1.342	0	-6.068	-6.656	0.116	21.26	41.4	0	-1.099	201.8	388.6
44	2/13/2012 2:00	200	-6.051	62.86	2.588	286.7	34.94	-45.59	0	0	-1.705	0	-6.067	-6.683	0.116	21.26	34.54	0	-1.097	201.8	388.6
44	2/13/2012 3:00	300	-6.069	61.81	4.339	255.9	20.67	-57.73	0	0	-2.04	0	-6.073	-6.715	0.116	21.26	164.1	0	-1.098	201.8	388.6
44	2/13/2012 4:00	400	-6.501	63.37	3.274	291	25.06	-58.09	0	0	-2.36	0	-6.087	-6.753	0.116	21.26	23.88	0	-1.099	201.8	388.6
44	2/13/2012 5:00	500	-6.797	63.86	2.21	314.8	34.23	-53.78	0	0	-2.622	0	-6.106	-6.79	0.116	21.25	0.508	0	-1.101	201.8	388.6
44	2/13/2012 6:00	600	-6.813	63.63	2.637	322.5	16.62	-52.68	0	0	-2.842	0	-6.132	-6.831	0.116	21.25	0	0	-1.099	201.8	388.6
44	2/13/2012 7:00	700	-6.798	63.22	1.823	315	40.4	-51.76	0	0	-3.12	0	-6.159	-6.874	0.116	21.26	0.508	0	-1.099	201.8	388.6
44	2/13/2012 8:00	800	-7.4	64.77	1.059	357.4	52.02	-33.83	0	0	-3.338	0	-6.195	-6.919	0.116	21.25	0	0	-1.1	201.8	388.6
44	2/13/2012 9:00	900	-7.29	64.6	0.684	109.8	59.63	-19	0	0	-3.607	0	-6.231	-6.966	0.116	21.24	0	0	-1.101	201.8	388.6
44	2/13/2012 10:00	1000	-7.22	64.02	1.342	144.5	10.86	-15.45	0.004	0.988	-3.86	0	-6.272	-7.02	0.116	21.24	0	0	-1.1	201.8	388.6
44	2/13/2012 11:00	1100	-7.22	62.67	0.732	95.7	26.83	-12.34	0.031	1.087	-3.939	0	-6.314	-7.06	0.115	21.23	0	0	-1.103	201.8	388.6
44	2/13/2012 12:00	1200	-5.494	54.76	1.177	204.9	27.02	-14.21	0.097	1.034	-3.667	0	-6.355	-7.09	0.115	21.22	1.524	0	-1.1	201.7	388.5
44	2/13/2012 13:00	1300	-4.511	53.09	1.708	155.4	12.77	17.93	0.15	1.018	-3.322	0	-6.389	-7.1	0.115	21.22	0	0	-1.102	201.7	388.5
44	2/13/2012 14:00	1400	-3.189	49.42	1.608	203.8	17.28	2.029	0.151	1.011	-2.925	0	-6.42	-7.09	0.115	21.22	0	0	-1.102	201.7	388.5
44	2/13/2012 15:00	1500	-2.284	49.92	3.066	207.5	16.27	-9.23	0.175	1.028	-2.406	0	-6.444	-7.08	0.115	21.22	22.61	0	-1.103	201.7	388.5
44	2/13/2012 16:00	1600	-2.009	49.31	1.926	173.2	12.95	-19.98	0.133	1.11	-1.93	0	-6.458	-7.05	0.115	21.22	0	0	-1.104	201.7	388.5
44	2/13/2012 17:00	1700	-3.186	53.57	1.958	157.6	9.2	-37.44	0.061	1.294	-1.698	0	-6.461	-7.01	0.115	21.21	0	0	-1.101	201.7	388.5
44	2/13/2012 18:00	1800	-4.863	57.99	0.332	191.3	26.1	-43.78	0.009	1.807	-1.895	0	-6.457	-7	0.115	21.22	0	0	-1.1	201.7	388.5
44	2/13/2012 19:00	1900	-6.182	62	0.695	136.2	33.64	-37.93	0	0.092	-2.317	0	-6.448	-7.01	0.115	21.22	0	0	-1.1	201.8	388.6
44	2/13/2012 20:00	2000	-8.01	68.16	1.625	44.61	9.99	-35.39	0	0	-2.99	0	-6.441	-7.04	0.115	21.22	0	0	-1.1	201.8	388.6
44	2/13/2012 21:00	2100	-7.38	66	1.479	75	21.37	-28.42	0	0	-3.564	0	-6.442	-7.09	0.115	21.22	0	0	-1.099	201.8	388.6
44	2/13/2012 22:00	2200	-5.78	61.33	1.097	109.7	22.64	-16.61	0	0	-3.875	0	-6.455	-7.14	0.115	21.22	0	0	-1.1	201.8	388.6
44	2/13/2012 23:00	2300	-6.066	63.22	1.286	98	22.49	-13.15	0	0	-4.033	0	-6.477	-7.18	0.115	21.22	0	0	-1.102	201.8	388.6
44	2/14/2012 0:00	2400	-6.366	64.84	1.173	52.43	14.13	-15.84	0	0	-4.017	0	-6.506	-7.22	0.115	21.21	0	0	-1.102	201.8	388.6
45	2/14/2012 1:00	100	-6.964	66.76	1.581	85.7	11.72	-24.81	0	0	-3.806	0	-6.534	-7.23	0.115	21.21	0	0	-1.098	201.8	388.6
45	2/14/2012 2:00	200	-7.26	67.62	1.762	86	21.14	-28.56	0	0	-3.609	0	-6.557	-7.24	0.115	21.2	0	0	-1.1	201.8	388.6
45	2/14/2012 3:00	300	-7.06	65.42	1.244	49.67	31.68	-29.19	0	0	-3.505	0	-6.577	-7.25	0.115	21.2	0	0	-1.103	201.8	388.6
45	2/14/2012 4:00	400	-7.44	65.53	1.283	59	20.8	-38.7	0	0	-3.45	0	-6.592	-7.26	0.115	21.2	0	0	-1.101	201.8	388.6
45	2/14/2012 5:00	500	-8	64.95	1.785	32.3	8.86	-40.89	0	0	-3.617	0	-6.606	-7.27	0.115	21.2	0	0	-1.102	201.8	388.6
45	2/14/2012 6:00	600	-8.7	65.98	1.444	57.93	21.42	-35	0	0	-3.867	0	-6.62	-7.3	0.115	21.19	0	0	-1.101	201.8	388.6
45	2/14/2012 7:00	700	-8.01	65.02	1.549	46.78	16.89	-22.51	0	0	-4.106	0	-6.639	-7.33	0.115	21.19	0	0	-1.101	201.8	388.6
45	2/14/2012 8:00	800	-7.76	64.85	0.946	69.56	27.56	-33.58	0	0	-4.245	0	-6.663	-7.36	0.114	21.19	0	0	-1.102	201.8	



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
45	2/14/2012 18:00	1800	-4.2	72.9	4.698	256.6	13.97	-4.136	0.01	1.139	-0.883	0	-6.8	-7.23	0.114	21.16	1578	0	-1.099	201.8	388.6
45	2/14/2012 19:00	1900	-4.896	84.2	3.133	264.6	16.96	-3.236	0	0.104	-0.641	0	-6.758	-7.16	0.114	21.17	974	0	0	202.3	389.1
45	2/14/2012 20:00	2000	-5.317	93.4	2.678	260.5	13.48	-3.897	0	0	-0.615	0	-6.709	-7.1	0.114	21.18	478.8	0	0	202.8	389.6
45	2/14/2012 21:00	2100	-5.019	92	3.315	256.3	11.75	-5.781	0	0	-0.429	0	-6.659	-7.05	0.114	21.18	1002	0	-1.072	202.8	389.6
45	2/14/2012 22:00	2200	-4.912	88.2	5.362	285.2	8.17	-15.43	0	0	-0.424	0	-6.609	-7.01	0.115	21.19	2542	0	-1.098	202.8	389.6
45	2/14/2012 23:00	2300	-5.143	83.6	5.394	291.1	9.12	-23.5	0	0	-0.424	0	-6.561	-6.965	0.115	21.2	2689	0	-1.099	202.8	389.6
45	2/15/2012 0:00	2400	-5.495	80	3.124	268	14.78	-28.9	0	0	-0.424	0	-6.516	-6.929	0.115	21.2	975	0	-1.101	202.8	389.6
46	2/15/2012 1:00	100	-6.417	80.2	1.416	76.1	36.96	-40.99	0	0	-0.424	0	-6.474	-6.899	0.115	21.21	341.9	0	-1.097	202.8	389.6
46	2/15/2012 2:00	200	-8.14	79.3	0.8	329.4	28.47	-43.02	0	0	-0.539	0	-6.439	-6.875	0.115	21.22	81.3	0	-1.101	202.8	389.6
46	2/15/2012 3:00	300	-8.63	82.2	0.799	133.6	54.55	-43.34	0	0	-0.75	0	-6.405	-6.861	0.115	21.22	20.07	0	-1.103	202.8	389.6
46	2/15/2012 4:00	400	-9.5	81.2	0.949	48.55	28.57	-38.78	0	0	-1.144	0	-6.375	-6.863	0.115	21.23	0	0	-1.104	202.8	389.6
46	2/15/2012 5:00	500	-10.33	84	1.013	85.6	23.98	-38.87	0	0	-1.611	0	-6.352	-6.879	0.116	21.23	118.6	0	-1.104	202.8	389.6
46	2/15/2012 6:00	600	-11.11	82.5	1.609	46.65	8	-38.64	0	0	-2.079	0	-6.334	-6.906	0.115	21.23	355.1	0	-1.1	202.8	389.6
46	2/15/2012 7:00	700	-10.83	77.7	2.353	30.79	5.767	-44.93	0	0	-2.47	0	-6.327	-6.942	0.116	21.23	736	0	-1.105	202.8	389.6
46	2/15/2012 8:00	800	-12.02	78.7	1.39	33.87	9.06	-40.66	0	0	-2.776	0	-6.329	-6.983	0.116	21.23	300.7	0	-1.102	202.8	389.6
46	2/15/2012 9:00	900	-12.03	79.4	1.77	27.01	11.03	-36.3	0	0	-2.972	0	-6.336	-7.02	0.115	21.23	467.4	0	-1.1	202.8	389.6
46	2/15/2012 10:00	1000	-10.63	73.4	2.064	23.73	26.67	-42.83	0.007	1.474	-3.152	0	-6.346	-7.05	0.115	21.23	278.4	0	-1.101	202.8	389.6
46	2/15/2012 11:00	1100	-8.46	62.14	1.22	30.02	36.34	-19.79	0.086	0.836	-3.185	0	-6.359	-7.08	0.115	21.23	128.3	0	-1.105	202.8	389.6
46	2/15/2012 12:00	1200	-6.247	53.83	1.128	322.5	66.34	-13.22	0.131	1.044	-3.184	0	-6.375	-7.11	0.115	21.22	1524	0	-1.103	202.8	389.6
46	2/15/2012 13:00	1300	-4.713	53.85	1.984	133.8	24.31	-8.54	0.178	1.071	-3.184	0	-6.389	-7.13	0.115	21.22	138.4	0	-1.104	202.7	389.5
46	2/15/2012 14:00	1400	-4.058	49.62	4.082	152.3	15.59	-7.44	0.198	1.078	-3.117	0	-6.405	-7.15	0.115	21.22	1521	0	-1.102	202.7	389.5
46	2/15/2012 15:00	1500	-4.437	49.51	5.853	168.3	10.42	-11.89	0.175	1.104	-2.972	0	-6.422	-7.16	0.115	21.22	2362	0	-1.101	202.7	389.5
46	2/15/2012 16:00	1600	-4.82	50.35	5.467	165	7.92	-27.74	0.123	1.165	-2.748	0	-6.434	-7.16	0.115	21.21	2457	0	-1.1	202.7	389.5
46	2/15/2012 17:00	1700	-5.032	50.67	5.744	166.9	8.21	-26.96	0.098	1.231	-2.415	0	-6.439	-7.14	0.115	21.21	2221	0	-1.099	202.7	389.5
46	2/15/2012 18:00	1800	-5.946	52.09	3.941	154.8	13.7	-48.56	0.021	1.667	-2.252	0	-6.438	-7.13	0.115	21.21	1053	0	-1.1	202.7	389.5
46	2/15/2012 19:00	1900	-6.578	52.12	3.033	138.1	14.16	-47.83	0	0.165	-2.303	0	-6.431	-7.11	0.115	21.22	22.35	0	-1.098	202.7	389.5
46	2/15/2012 20:00	2000	-6.697	51.64	3.616	148.6	11.14	-47.12	0	0	-2.377	0	-6.423	-7.11	0.115	21.22	95	0	-1.1	202.7	389.5
46	2/15/2012 21:00	2100	-6.981	51.45	2.115	130.6	26.97	-38.09	0	0	-2.598	0	-6.418	-7.12	0.115	21.22	197.9	0	-1.099	202.7	389.5
46	2/15/2012 22:00	2200	-6.233	53.81	3.499	152.9	12.09	-11.25	0	0	-2.762	0	-6.42	-7.13	0.115	21.22	32.26	0	-1.099	202.7	389.5
46	2/15/2012 23:00	2300	-5.466	55.82	3.577	170	10.29	-2.408	0	0	-2.965	0	-6.427	-7.14	0.115	21.22	76.7	0	-1.098	202.7	389.5
46	2/16/2012 0:00	2400	-5.936	76.9	4.365	172.7	9.78	-1.528	0	0	-2.826	0	-6.438	-7.15	0.115	21.21	152.1	0	-0.42	202.8	389.6
47	2/16/2012 1:00	100	-5.683	74	4.615	171.3	10.61	-3.324	0	0	-2.493	0	-6.445	-7.14	0.115	21.21	37.08	0	-1.1	202.8	389.6
47	2/16/2012 2:00	200	-5.66	74.5	3.251	169.8	12.62	-5.867	0	0	-2.141	0	-6.445	-7.12	0.115	21.21	61.47	0	-1.099	202.8	389.6
47	2/16/2012 3:00	300	-5.465	71.3	4.557	173.7	9.7	-5.581	0	0	-1.808	0	-6.437	-7.08	0.115	21.21	115.6	0	-1.1	202.9	389.7
47	2/16/2012 4:00	400	-6.056	81.4	4.564	176.1	10.88	-8.23	0	0	-1.575	0	-6.421	-7.05	0.115	21.22	0.254	0	-1.094	202.9	389.7
47	2/16/2012 5:00	500	-5.867	77	3.392	182.7	11.93	-11.16	0	0	-1.405	0	-6.399	-7.02	0.115	21.22	103.1	0	-1.099	202.9	389.7
47	2/16/2012 6:00	600	-5.666	77.1	2.589	194.5	19.61	-6.195	0	0	-1.273	0	-6.374	-6.987	0.115	21.22	557.8	0	-1.098	202.9	389.7
47	2/16/2012 7:00	700	-5.781	81.7	1.189	208.4	36.64	-7.43	0	0	-1.194	0	-6.35	-6.959	0.115	21.23	237.7	0	-1.099	202.9	389.7
47	2/16/2012 8:00	800	-5.729	79.1	1.038	291.1	48.85	-5.776	0	0	-1.061	0	-6.324	-6.932	0.115	21.23	276.6	0	-1.099	202.9	389.7
47	2/16/2012 9:00	900	-5.667	79.1	0.959	260.3	27.95	-9.52	0	0	-1.061	0	-6.301	-6.908	0.116	21.23	51.56	0	-1.098	203	389.8
47	2/16/2012 10:00	1000	-6.063	88.6	1.329	209.5	30.82	-4.728	0.005	0.906	-1.061	0	-6.277	-6.885	0.115	21.23	543.6	0	-1.1	203.3	390.1
47	2/16/2012 11:00	1100	-5.628	87.9	1.392	124.9	46.22	-8.4	0.028	1.261	-0.903	0	-6.253	-6.859	0.116	21.24	363.5	0	-1.099	203.4	390.2
47	2/16/2012 12:00	1200	-4.893	81.9	3.621	281.7	18.99	-14.17	0.067	1.25	-0.745	0	-6.231	-6.829	0.116	21.24	398.8	0	-1.099	203.4	390.2
47	2/16/2012 13:00	1300	-4.138	77.3	3.87	254.4	19.84	14.68	0.175	1.128	-0.473	0	-6.206	-6.792	0.116	21.25	1021	0	-1.102	203.4	390.2
47	2/16/2012 14:00	1400	-3.909	74.6	3.326	282.4	21.14	1.043	0.163	1.1	-0.169	0	-6.182	-6.75	0.116	21.24	259.6	0	-1.102	203.4	390.2
47	2/16/2012 15:00	1500	-3.871	74.1	3.881	263.3	13.62	-15.39	0.13	1.15	0.132	0	-6.154	-6.703	0.116	21.24	747	0	-1.102	203.4	390.2
47	2/16/2012 16:00	1600	-3.765	76.9	1.911	301.1	17.41	9.98	0.088	1.135	0.212	0	-6.125	-6.662	0.116	21.25	973	0	-1.101	203.4	390.2
47	2/16/2012 17:00	1700	-3.434	71.1	1.745	274.2	24.64	-8.14	0.078	1.152	0.276	0	-6.09	-6.621	0.116	21.25	975	0	-1.1	203.4	390.2
47	2/16/2012 18:00	1800	-3.606	66.03	1.669	236	35.05	-46.11	0.029	1.501	0.214	0	-6.057	-6.588	0.116	21.26	732	0	-1.101	203.4	390.2
47	2/16/2012 19:00	1900	-4.792	68.73	0.771	21.44	47.99	-47.03	0.001	0.585	0.13	0	-6.023	-6.562	0.116	21.26	0	0	-1.113	203.4	390.2
47	2/16/2012 20:00	2000	-5.921	71.6	1.516	118.6	23.7	-46.83	0	0	-0.194	0	-5.993	-6.551	0.116	21.27	74.7	0	-1.107	203.4	390.2
47	2/16/2012 21:00	2100	-7.1	73.3	1.273	77.8	22.22	-42.78	0	0	-0.657	0	-5.969	-6.558	0.116	21.27	64.01	0	-1.105	203.4	390.2
47	2/16/2012 22:00	2200	-5.813	68.35	1.236	111.4	14.05	-29.77	0	0	-1.189	0	-5.953	-6.582	0.117	21.28	625.3	0	-1.103	203.4	390.2
47	2/16/2012 23:00	2300	-5.617	63.17	1.273	132.4	23.9	-29.33	0	0	-1.662	0	-5.951	-6.614	0.117	21.28	244.1	0	-1.101	203.4	390.2
47	2/17/2012 0:00	2400	-6.6	59.47	0.887	76.5	28.71	-27.57	0	0	-2.044	0	-5.963	-6.654	0.117	21.28	464.6	0	-1.101	203.4	390.2
48	2/17/2012 1:00	100	-5.741	48.69	0.587	150.8	33.84	-26.34	0	0	-2.34	0	-5.981	-6.693	0.116	21.27	368.3	0	-1.108	203.4	390.2
48	2/17/2012 2:00	200	-5.683	48.48	1.13	199.1	12.26</														



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
48	2/17/2012 12:00	1200	-3.982	42.83	0.729	33.99	23.69	0.804	0.16	1.042	-3.822	0	-6.4	-7.13	0.115	21.22	8.38	0	-1.111	203.3	390.1
48	2/17/2012 13:00	1300	-3.582	43.95	1.55	175.1	11.06	1.024	0.189	1.034	-3.725	0	-6.44	-7.14	0.115	21.21	301.5	0	-1.104	203.3	390.1
48	2/17/2012 14:00	1400	-3.45	46.81	1.581	178.5	13.41	22.2	0.19	1.06	-3.488	0	-6.476	-7.16	0.115	21.2	309.4	0	-1.104	203.3	390.1
48	2/17/2012 15:00	1500	-1.926	42.6	0.707	83.7	33.91	5.685	0.163	1.086	-3.136	0	-6.506	-7.15	0.115	21.2	228.3	0	-1.106	203.3	390.1
48	2/17/2012 16:00	1600	-2.836	46.23	0.63	157.7	20.7	2.734	0.112	1.115	-2.786	0	-6.529	-7.14	0.115	21.19	22.86	0	-1.102	203.3	390.1
48	2/17/2012 17:00	1700	-3.937	52.16	0.965	148.8	9.57	-7.94	0.076	1.127	-2.431	0	-6.537	-7.12	0.115	21.19	133.9	0	-1.102	203.3	390.1
48	2/17/2012 18:00	1800	-4.765	55.49	0.957	156	15.59	-15.31	0.025	1.213	-2.334	0	-6.535	-7.1	0.115	21.2	95.5	0	-1.101	203.3	390.1
48	2/17/2012 19:00	1900	-5.897	59.64	1.355	120.4	14.81	-18.68	0.002	0.499	-2.334	0	-6.526	-7.09	0.115	21.2	579.6	0	-1.099	203.4	390.2
48	2/17/2012 20:00	2000	-7.29	64.67	0.776	71.6	43.79	-16.53	0	0	-2.335	0	-6.514	-7.08	0.115	21.2	190.5	0	-1.098	203.4	390.2
48	2/17/2012 21:00	2100	-7.36	66.44	0.771	12.55	39.94	-5.009	0	0	-2.335	0	-6.5	-7.07	0.115	21.21	122.7	0	-1.1	203.4	390.2
48	2/17/2012 22:00	2200	-7.28	68.31	1.049	69.23	23.29	-3.882	0	0	-2.355	0	-6.488	-7.07	0.115	21.21	275.6	0	-1.099	203.4	390.2
48	2/17/2012 23:00	2300	-7.14	70.2	0.998	44.97	12.17	-3.658	0	0	-2.355	0	-6.481	-7.07	0.115	21.21	456.7	0	-1.099	203.4	390.2
48	2/18/2012 0:00	2400	-7.28	72.1	0.74	64.19	20.64	-3.874	0	0	-2.335	0	-6.475	-7.06	0.115	21.21	36.07	0	-1.101	203.4	390.2
49	2/18/2012 1:00	100	-7.24	72.1	0.792	62.59	27.3	-5.503	0	0	-2.282	0	-6.469	-7.05	0.115	21.21	92.2	0	-1.1	203.4	390.2
49	2/18/2012 2:00	200	-7.25	72.9	1.16	37.23	11.85	-5.182	0	0	-2.123	0	-6.461	-7.04	0.115	21.21	120.6	0	-1.099	203.4	390.2
49	2/18/2012 3:00	300	-7.14	72.7	0.985	50.04	20.93	-4.895	0	0	-2.122	0	-6.452	-7.03	0.115	21.21	39.88	0	-1.1	203.4	390.2
49	2/18/2012 4:00	400	-7.29	73.3	0.562	77.8	13.31	-4.959	0	0	-2.123	0	-6.443	-7.02	0.115	21.22	0	0	-1.101	203.4	390.2
49	2/18/2012 5:00	500	-7.52	74.2	1.117	91	13.46	-7.42	0	0	-1.91	0	-6.431	-7	0.115	21.21	712	0	-1.101	203.4	390.2
49	2/18/2012 6:00	600	-7.64	75.6	0.929	54.98	16.1	-5.39	0	0	-1.91	0	-6.418	-6.992	0.115	21.22	364.5	0	-1.101	203.4	390.2
49	2/18/2012 7:00	700	-7.75	76	1.189	90.4	10.32	-6.637	0	0	-1.91	0	-6.406	-6.979	0.115	21.22	474.7	0	-1.1	203.4	390.2
49	2/18/2012 8:00	800	-7.96	76.5	1.333	91	9.05	-8.39	0	0	-1.907	0	-6.393	-6.968	0.115	21.22	1182	0	-1.1	203.4	390.2
49	2/18/2012 9:00	900	-8.04	76.5	1.035	92	9.14	-8.22	0	0	-1.816	0	-6.383	-6.959	0.115	21.22	726	0	-1.102	203.4	390.2
49	2/18/2012 10:00	1000	-7.68	70.8	1.303	103.6	11.47	-6.99	0.005	1.147	-1.709	0	-6.37	-6.949	0.115	21.23	574.3	0	-1.1	203.4	390.2
49	2/18/2012 11:00	1100	-7.48	69.26	1.444	130.9	12.74	0.316	0.03	1.13	-1.698	0	-6.359	-6.937	0.115	21.23	256.5	0	-1.1	203.4	390.2
49	2/18/2012 12:00	1200	-7.15	70.1	1.591	146.2	16.95	7.56	0.063	1.122	-1.614	0	-6.346	-6.923	0.115	21.23	316.7	0	-1.1	203.3	390.1
49	2/18/2012 13:00	1300	-7.65	76.1	2.977	184.7	9.05	13.56	0.093	1.118	-1.421	0	-6.335	-6.905	0.115	21.23	560.6	0	-1.1	203.4	390.2
49	2/18/2012 14:00	1400	-7.54	73.6	2.199	177	12.01	15.81	0.106	1.116	-1.191	0	-6.323	-6.88	0.115	21.22	805	0	-1.1	203.3	390.1
49	2/18/2012 15:00	1500	-7.32	68.91	1.631	185.2	18.14	11.24	0.09	1.128	-0.983	0	-6.308	-6.851	0.116	21.23	774	0	-1.099	203.3	390.1
49	2/18/2012 16:00	1600	-7.59	69.58	1.978	181	14.31	6.366	0.069	1.138	-0.849	0	-6.291	-6.821	0.116	21.24	351	0	-1.099	203.4	390.2
49	2/18/2012 17:00	1700	-7.9	70	2.292	148.3	18.27	0.976	0.044	1.142	-0.847	0	-6.27	-6.794	0.116	21.24	649	0	-1.1	203.4	390.2
49	2/18/2012 18:00	1800	-8.16	70.9	1.737	76	11.12	-5.438	0.016	1.17	-0.849	0	-6.246	-6.771	0.116	21.24	0	0	-1.099	203.4	390.2
49	2/18/2012 19:00	1900	-8.52	70.7	1.164	66.8	10.83	-10.28	0.001	0.454	-0.889	0	-6.222	-6.756	0.116	21.25	0	0	-1.099	203.4	390.2
49	2/18/2012 20:00	2000	-8.77	74.3	0.96	96.5	16.76	-10.51	0	0	-1.061	0	-6.2	-6.745	0.116	21.24	0	0	-1.099	203.4	390.2
49	2/18/2012 21:00	2100	-8.88	73.5	0.821	26.07	13.56	-9.32	0	0	-1.202	0	-6.18	-6.739	0.116	21.25	0	0	-1.099	203.4	390.2
49	2/18/2012 22:00	2200	-9.02	74.5	0.989	31.34	25.27	-9.19	0	0	-1.332	0	-6.164	-6.74	0.116	21.25	0	0	-1.1	203.4	390.2
49	2/18/2012 23:00	2300	-9.5	77.8	0.547	45.17	27.41	-9.38	0	0	-1.486	0	-6.152	-6.744	0.116	21.26	0	0	-1.101	203.4	390.2
49	2/19/2012 0:00	2400	-9.63	78.5	0.142	32.7	0.506	-8.13	0	0	-1.633	0	-6.145	-6.749	0.116	21.26	0	0	-1.101	203.4	390.2
50	2/19/2012 1:00	100	-9.51	78.2	0.183	354.5	19.96	-7.2	0	0	-1.7	0	-6.142	-6.756	0.116	21.25	0	0	-1.102	203.4	390.2
50	2/19/2012 2:00	200	-9.69	79.4	0.241	20.62	26.67	-8.24	0	0	-1.889	0	-6.141	-6.765	0.116	21.26	0	0	-1.105	203.4	390.2
50	2/19/2012 3:00	300	-9.56	79.2	0.602	53.03	25.44	-7.15	0	0	-1.91	0	-6.141	-6.773	0.116	21.26	0	0	-0.428	203.4	390.2
50	2/19/2012 4:00	400	-9.72	80.8	0.541	55.9	9.06	-9.43	0	0	-1.986	0	-6.144	-6.783	0.116	21.25	0	0	-1.109	203.4	390.2
50	2/19/2012 5:00	500	-9.61	80.9	0.525	86.6	16.79	-8.99	0	0	-2.123	0	-6.147	-6.792	0.116	21.26	0	0	-1.101	203.4	390.2
50	2/19/2012 6:00	600	-9.65	81.3	0.437	86.5	12.34	-8.03	0	0	-2.123	0	-6.152	-6.8	0.116	21.25	0	0	-1.111	203.4	390.2
50	2/19/2012 7:00	700	-9.88	83.2	0.46	50.05	12.99	-10.43	0	0	-2.123	0	-6.157	-6.807	0.116	21.26	0	0	-1.114	203.4	390.2
50	2/19/2012 8:00	800	-10.39	83.5	0.614	84	16.23	-17.08	0	0	-2.123	0	-6.162	-6.815	0.116	21.26	0	0	-1.107	203.4	390.2
50	2/19/2012 9:00	900	-10.58	84.9	0.596	56.21	16.85	-9.71	0	0	-2.272	0	-6.169	-6.824	0.116	21.25	0	0	-1.108	203.4	390.2
50	2/19/2012 10:00	1000	-10.15	83.9	1.06	71	36.27	-6.579	0.008	1.208	-2.335	0	-6.174	-6.836	0.116	21.24	121.4	0	-1.102	203.4	390.2
50	2/19/2012 11:00	1100	-9.41	80.4	0.949	75.4	24.19	-0.108	0.032	1.159	-2.335	0	-6.181	-6.847	0.116	21.25	668.3	0	-1.1	203.4	390.2
50	2/19/2012 12:00	1200	-8.15	76.3	0.934	75.3	18.2	6.845	0.07	1.128	-2.299	0	-6.191	-6.852	0.116	21.25	513.3	0	-1.104	203.4	390.2
50	2/19/2012 13:00	1300	-6.686	65.22	0.786	89.2	44.4	14.06	0.114	1.109	-2.042	0	-6.199	-6.846	0.116	21.25	24.89	0	-1.104	203.4	390.2
50	2/19/2012 14:00	1400	-4.912	49.89	0.813	62.87	27.39	15.49	0.152	1.091	-1.706	0	-6.203	-6.829	0.116	21.25	6.604	0	-1.105	203.3	390.1
50	2/19/2012 15:00	1500	-5.489	49.37	0.804	53.55	28.4	10.6	0.127	1.101	-1.385	0	-6.204	-6.804	0.116	21.25	87.6	0	-1.105	203.3	390.1
50	2/19/2012 16:00	1600	-6.292	51.9	1.305	191.3	42.61	7.18	0.093	1.113	-1.142	0	-6.2	-6.775	0.116	21.24	187.7	0	-1.101	203.3	390.1
50	2/19/2012 17:00	1700	-6.853	55.43	1.449	159.1	17.34	-0.929	0.062	1.126	-1.061	0	-6.189	-6.749	0.116	21.25	425.2	0	-1.101	203.4	390.2
50	2/19/2012 18:00	1800	-7.19	58.25	1.13	152.6	8.32	-11.89	0.023	1.176	-1.061	0	-6.174	-6.725	0.116	21.25	130.8	0	-1.1	203.4	390.2
50	2/19/2012 19:00	1900	-8.21	69.59	1.981	156.1	10.14	-23.9	0.001	0.464	-1.092	0	-6.157	-6.709	0.116	21.24	0	0	-1.102	203.4	390.2
50	2/19/2012 20:00	2000	-9.24	68.29	1.729	38.46	15.58	-13.49	0	0	-1.288	0	-6.139	-6.703							



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
51	2/20/2012 6:00	600	-12.96	79.3	1.251	333.7	31.4	-39.47	0	0	-3.874	0	-6.183	-6.934	0.116	21.25	0	0	-0.366	203.4	390.2
51	2/20/2012 7:00	700	-12.97	80.1	0.622	2.057	54.17	-34.96	0	0	-4.298	0	-6.227	-6.998	0.116	21.24	0	0	-1.102	203.4	390.2
51	2/20/2012 8:00	800	-13.26	78.1	1.444	34.87	16.21	-41.39	0	0	-4.696	0	-6.278	-7.07	0.116	21.24	0	0	-1.103	203.4	390.2
51	2/20/2012 9:00	900	-13.64	80.4	1.074	49.22	35.43	-41.81	0	0	-5.02	0	-6.336	-7.14	0.115	21.23	0	0	-1.107	203.4	390.2
51	2/20/2012 10:00	1000	-13.18	79.6	1.488	50.8	27.62	-42.25	0.009	1.627	-5.286	0	-6.398	-7.21	0.115	21.22	0	0	-1.103	203.4	390.2
51	2/20/2012 11:00	1100	-11.06	74.3	2.963	114.3	19.51	-27.85	0.105	0.867	-5.402	0	-6.462	-7.27	0.115	21.21	0	0	-1.105	203.4	390.2
51	2/20/2012 12:00	1200	-9.76	72	2.625	123.5	27.93	-19.01	0.113	1.039	-5.521	0	-6.53	-7.33	0.115	21.2	0	0	-1.103	203.3	390.1
51	2/20/2012 13:00	1300	-8.8	67.81	3.039	157.3	15.67	7.55	0.136	1.102	-5.383	0	-6.596	-7.38	0.114	21.19	0	0	-1.101	203.3	390.1
51	2/20/2012 14:00	1400	-8.68	70.3	4.085	164.5	12.37	10.94	0.106	1.118	-5.024	0	-6.652	-7.41	0.114	21.18	0	0	-1.1	203.3	390.1
51	2/20/2012 15:00	1500	-8.66	73.1	4.626	161.1	12.38	17.89	0.095	1.134	-4.624	0	-6.694	-7.42	0.114	21.18	0	0	-1.1	203.3	390.1
51	2/20/2012 16:00	1600	-8.7	72.1	4.29	161.6	11.9	8.82	0.105	1.122	-3.931	0	-6.723	-7.4	0.114	21.17	0	0	-1.1	203.3	390.1
51	2/20/2012 17:00	1700	-8.75	72	4.736	154.3	11.39	1.509	0.066	1.106	-3.384	0	-6.736	-7.37	0.114	21.17	0	0	-1.1	203.3	390.1
51	2/20/2012 18:00	1800	-8.93	74.6	4.92	156.1	11.69	-1.266	0.02	1.131	-3.047	0	-6.733	-7.34	0.114	21.17	0	0	-1.1	203.3	390.1
51	2/20/2012 19:00	1900	-8.86	74.7	4.776	159.1	11.98	-4.228	0.001	0.37	-2.961	0	-6.718	-7.31	0.114	21.17	0	0	-1.101	203.3	390.1
51	2/20/2012 20:00	2000	-9.03	78.6	4.385	155.8	11.54	-4.308	0	0	-2.775	0	-6.701	-7.28	0.114	21.18	0	0	-1.102	203.4	390.2
51	2/20/2012 21:00	2100	-8.98	82.4	4.641	153.8	11.66	-3.18	0	0	-2.76	0	-6.681	-7.26	0.114	21.18	0	0	-1.099	203.6	390.4
51	2/20/2012 22:00	2200	-8.23	77.6	4.385	155.5	12.99	-5.251	0	0	-2.69	0	-6.66	-7.25	0.114	21.18	0	0	-1.098	203.6	390.4
51	2/20/2012 23:00	2300	-8.06	76.3	4.074	171.5	11.64	-6.17	0	0	-2.543	0	-6.638	-7.23	0.114	21.18	0	0	-1.106	203.7	390.5
51	2/21/2012 0:00	2400	-8.22	78.5	1.95	191.9	19.16	-7.65	0	0	-2.341	0	-6.616	-7.2	0.115	21.19	0	0	-1.106	203.7	390.5
52	2/21/2012 1:00	100	-8.22	78.7	2.405	183.5	15.03	-18.21	0	0	-2.228	0	-6.597	-7.18	0.115	21.19	374.1	0	-1.107	203.7	390.5
52	2/21/2012 2:00	200	-8.56	79.4	1.544	127.8	36.51	-49.09	0	0	-2.123	0	-6.577	-7.16	0.115	21.19	82.8	0	-1.097	203.7	390.5
52	2/21/2012 3:00	300	-9.76	81	1.442	92.3	20.38	-37.7	0	0	-2.123	0	-6.558	-7.14	0.115	21.2	9.14	0	-1.096	203.7	390.5
52	2/21/2012 4:00	400	-9	80.1	1.196	104.8	46.64	-17.84	0	0	-2.286	0	-6.544	-7.14	0.115	21.2	0	0	-1.098	203.7	390.5
52	2/21/2012 5:00	500	-7.4	76	1.137	159.4	27.37	-7.86	0	0	-2.589	0	-6.536	-7.14	0.115	21.2	0	0	-1.099	203.7	390.5
52	2/21/2012 6:00	600	-7.09	77.1	1.065	109.2	56.31	-4.997	0	0	-2.76	0	-6.541	-7.16	0.115	21.2	0.254	0	-1.101	203.7	390.5
52	2/21/2012 7:00	700	-6.761	77.5	0.776	119.1	77.5	-10.81	0	0	-2.76	0	-6.551	-7.17	0.115	21.2	0	0	-1.101	203.7	390.5
52	2/21/2012 8:00	800	-6.465	76.4	0.981	148.8	36.66	-8.27	0	0	-2.68	0	-6.559	-7.17	0.115	21.2	0	0	-1.1	203.7	390.5
52	2/21/2012 9:00	900	-6.394	76.2	1.186	165.8	30.76	-4.189	0	0	-2.544	0	-6.562	-7.16	0.115	21.2	8.13	0	-1.096	203.7	390.5
52	2/21/2012 10:00	1000	-6.293	77.1	1.274	167.9	26.6	-1.408	0.012	1.11	-2.346	0	-6.56	-7.15	0.115	21.2	493.8	0	-1.107	203.7	390.5
52	2/21/2012 11:00	1100	-5.834	77.9	1.481	212.5	23.49	-3.433	0.048	1.106	-2.184	0	-6.552	-7.13	0.115	21.2	827	0	-1.103	203.7	390.5
52	2/21/2012 12:00	1200	-4.782	78.1	1.66	215.9	26.77	32.37	0.164	1.077	-1.839	0	-6.539	-7.1	0.115	21.2	772	0	-1.101	203.7	390.5
52	2/21/2012 13:00	1300	-4.344	79.6	2.033	203	16.75	25.42	0.161	1.109	-1.447	0	-6.52	-7.07	0.115	21.2	765	0	-1.101	203.7	390.5
52	2/21/2012 14:00	1400	-4.263	80	3.46	209.5	13.29	12.5	0.139	1.132	-1.117	0	-6.493	-7.02	0.115	21.21	980	0	-1.102	203.8	390.6
52	2/21/2012 15:00	1500	-4.286	81	5.146	217	11.28	1.642	0.108	1.146	-0.764	0	-6.459	-6.972	0.115	21.21	1321	0	-1.102	203.8	390.6
52	2/21/2012 16:00	1600	-3.908	79.2	4.429	227.5	17.79	-0.777	0.092	1.128	-0.481	0	-6.415	-6.918	0.115	21.22	1258	0	-1.101	203.8	390.6
52	2/21/2012 17:00	1700	-3.871	79.3	5.851	238.3	12.17	-7.81	0.07	1.121	-0.233	0	-6.363	-6.863	0.115	21.22	2252	0	-1.101	203.8	390.6
52	2/21/2012 18:00	1800	-3.836	78.7	2.908	271	24.12	-5.734	0.035	1.096	-0.192	0	-6.309	-6.812	0.115	21.23	457.5	0	-1.102	203.8	390.6
52	2/21/2012 19:00	1900	-3.971	79.7	3.82	242.4	15.32	-7.63	0.004	0.537	-0.125	0	-6.257	-6.768	0.116	21.24	234.7	0	-1.104	203.8	390.6
52	2/21/2012 20:00	2000	-4.262	84.1	4.123	266.7	11.54	-9.48	0	0	-0.167	0	-6.206	-6.729	0.116	21.24	1113	0	-1.079	203.8	390.6
52	2/21/2012 21:00	2100	-4.344	84.4	4.461	263.4	13.24	-7.43	0	0	-0.14	0	-6.16	-6.692	0.116	21.24	107.4	0	0	203.8	390.6
52	2/21/2012 22:00	2200	-4.5	82.2	4.226	260.1	17.57	-14.85	0	0	-0.095	0	-6.117	-6.659	0.116	21.25	822	0	-1.103	203.8	390.6
52	2/21/2012 23:00	2300	-4.763	81.1	3.667	276.1	22.11	-10.36	0	0	-0.071	0	-6.078	-6.629	0.116	21.26	1182	0	-1.1	203.8	390.6
52	2/22/2012 0:00	2400	-5.014	81.6	3.435	284.3	21.22	-7.29	0	0	-0.202	0	-6.042	-6.602	0.116	21.26	223.3	0	-1.102	203.9	390.7
53	2/22/2012 1:00	100	-5.287	82.9	1.675	307.4	30.63	-7.87	0	0	-0.212	0	-6.009	-6.58	0.116	21.27	1.778	0	-1.1	203.9	390.7
53	2/22/2012 2:00	200	-5.48	81.7	3.791	269.1	13.92	-8.62	0	0	-0.212	0	-5.979	-6.559	0.116	21.27	165.6	0	-1.102	203.9	390.7
53	2/22/2012 3:00	300	-5.933	83.4	4.48	263.8	11.99	-7.95	0	0	-0.264	0	-5.954	-6.542	0.116	21.27	1256	0	-1.098	203.9	390.7
53	2/22/2012 4:00	400	-6.229	86.6	4.316	259.4	10.24	-5.922	0	0	-0.423	0	-5.929	-6.527	0.117	21.28	2405	0	-1.097	204	390.8
53	2/22/2012 5:00	500	-6.518	86.3	3.146	278.8	10.7	-11.11	0	0	-0.424	0	-5.91	-6.514	0.117	21.28	1296	0	-1.099	204	390.8
53	2/22/2012 6:00	600	-7.36	82.1	2.792	280.8	9.87	-31.71	0	0	-0.438	0	-5.892	-6.503	0.117	21.28	979	0	-1.099	204	390.8
53	2/22/2012 7:00	700	-8.17	80.6	2.422	284.7	12.11	-43.15	0	0	-0.632	0	-5.877	-6.497	0.117	21.29	616.5	0	-1.099	204	390.8
53	2/22/2012 8:00	800	-9.06	82.4	1.224	251.6	36.82	-48.52	0	0	-0.837	0	-5.865	-6.499	0.117	21.29	131.6	0	-1.102	204	390.8
53	2/22/2012 9:00	900	-10.05	84.6	0.952	251.3	22.13	-40.49	0	0	-1.236	0	-5.86	-6.517	0.117	21.29	81.3	0	-0.361	204	390.8
53	2/22/2012 10:00	1000	-10.17	83.4	0.686	187.4	21.27	-34.58	0.017	1.381	-1.766	0	-5.865	-6.552	0.117	21.29	2.54	0	-1.101	204	390.8
53	2/22/2012 11:00	1100	-8.52	71.5	0.417	150.6	31.42	-22.68	0.08	1.009	-2.33	0	-5.882	-6.6	0.117	21.29	0	0	-1.111	204	390.8
53	2/22/2012 12:00	1200	-6.949	61.62	0.773	243.3	14.75	-7	0.169	1.005	-2.819	0	-5.911	-6.658	0.117	21.28	0	0	-1.104	204	390.8
53	2/22/2012 13:00	1300	-7.44	62.64	2.414	285.1	11.54	-4.158	0.219	1.044	-3.181	0	-5.952	-6.719	0.117	21.28	745	0	-1.102	204	390.8
53	2/22/2012 14:00	1400	-6.745	60.01	3.116	278.2	11.74	-7.08	0.231	1.072	-3.396	0	-6.001	-6.778	0.116	21.27	1060	0	-1.103	203.9	390.7



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
53	2/23/2012 0:00	2400	-11.06	77.9	1	338.8	29.76	-23.3	0	0	-3.556	0	-6.246	-6.98	0.116	21.25	1.016	0	-1.103	204	390.8
54	2/23/2012 1:00	100	-11.77	78.1	0.7	44.17	39.34	-20.55	0	0	-3.61	0	-6.276	-7.01	0.116	21.24	0.508	0	-1.104	204	390.8
54	2/23/2012 2:00	200	-11.86	77.3	0.916	356.2	18.63	-17.55	0	0	-3.765	0	-6.305	-7.04	0.116	21.24	0	0	-1.099	204	390.8
54	2/23/2012 3:00	300	-12.15	77.4	0.977	14.45	20.94	-31.16	0	0	-3.832	0	-6.337	-7.07	0.116	21.23	1.778	0	-1.101	204	390.8
54	2/23/2012 4:00	400	-12.9	81	0.471	29.71	19.31	-30.7	0	0	-4.028	0	-6.372	-7.1	0.115	21.23	0	0	-1.102	204	390.8
54	2/23/2012 5:00	500	-12.4	77.2	0.868	4.756	8.19	-12.43	0	0	-4.15	0	-6.407	-7.14	0.115	21.22	0	0	-1.1	204	390.8
54	2/23/2012 6:00	600	-12.82	83.3	0.072	265	1.669	-18.64	0	0	-4.406	0	-6.446	-7.18	0.115	21.22	0	0	-1.1	204	390.8
54	2/23/2012 7:00	700	-13.47	80.9	0.562	22.62	11.63	-20.71	0	0	-4.626	0	-6.489	-7.23	0.115	21.21	0	0	-1.101	204	390.8
54	2/23/2012 8:00	800	-13.45	77	1.069	10.38	10.18	-22.04	0	0	-4.688	0	-6.535	-7.27	0.115	21.2	0	0	-1.101	204	390.8
54	2/23/2012 9:00	900	-13.58	77.3	0.957	20.3	7.51	-8.06	0	0.177	-4.881	0	-6.581	-7.32	0.115	21.2	0	0	-1.1	204	390.8
54	2/23/2012 10:00	1000	-12.82	84.2	0.378	8.12	9.39	-4.927	0.013	1.201	-4.883	0	-6.625	-7.36	0.115	21.19	2.794	0	-1.105	204.1	390.9
54	2/23/2012 11:00	1100	-11.3	81	0	0	0	-20.33	0.05	1.177	-4.8	0	-6.672	-7.39	0.114	21.18	2.794	0	-1.103	204.2	391
54	2/23/2012 12:00	1200	-8.91	69.91	0.103	23.95	0.047	-60.18	0.109	1.11	-4.529	0	-6.714	-7.41	0.114	21.18	0	0	-1.116	204.3	391.1
54	2/23/2012 13:00	1300	-6.343	60.33	0.258	33.72	5.244	-99.5	0.202	1.047	-4.146	0	-6.747	-7.41	0.114	21.17	0	0	-1.12	204.3	391.1
54	2/23/2012 14:00	1400	-4.425	53.19	0.142	202.1	29.35	-101.7	0.204	1.083	-3.827	0	-6.767	-7.4	0.114	21.16	0	0	-1.115	204.3	391.1
54	2/23/2012 15:00	1500	-7.36	66.16	0.943	276.3	23.09	-66.58	0.171	1.135	-3.622	0	-6.783	-7.4	0.114	21.16	40.89	0	-1.103	204.3	391.1
54	2/23/2012 16:00	1600	-8.06	70	2.091	267.9	22.45	-40.08	0.134	1.184	-3.571	0	-6.797	-7.39	0.114	21.16	736	0	-1.103	204.3	391.1
54	2/23/2012 17:00	1700	-8.53	69.62	2.548	280.5	13.44	-41.14	0.077	1.228	-3.354	0	-6.804	-7.38	0.114	21.16	1061	0	-1.1	204.3	391.1
54	2/23/2012 18:00	1800	-9.18	71.1	1.978	299.8	8.1	-43.35	0.052	1.285	-3.073	0	-6.804	-7.37	0.114	21.16	543.6	0	-1.101	204.3	391.1
54	2/23/2012 19:00	1900	-10.43	74.6	0.372	278.6	27.75	-37.88	0.004	0.769	-2.92	0	-6.796	-7.35	0.114	21.16	4.826	0	-1.108	204.4	391.2
54	2/23/2012 20:00	2000	-12.2	80	0.572	50.26	29.78	-36.86	0	0	-2.909	0	-6.78	-7.33	0.114	21.16	0	0	-1.108	204.4	391.2
54	2/23/2012 21:00	2100	-13.98	81.4	1.884	38.16	7.48	-37.54	0	0	-3.179	0	-6.764	-7.33	0.114	21.17	54.36	0	-1.102	204.4	391.2
54	2/23/2012 22:00	2200	-14.59	81.4	1.453	23.39	10.93	-38.79	0	0	-3.653	0	-6.76	-7.35	0.114	21.17	313.7	0	-1.102	204.4	391.2
54	2/23/2012 23:00	2300	-15.69	81.2	1.501	22.98	12.2	-39.82	0	0	-4.124	0	-6.772	-7.4	0.114	21.17	135.1	0	-1.104	204.4	391.2
54	2/24/2012 0:00	2400	-15.9	82.4	1.961	5.799	12.94	-40.75	0	0	-4.537	0	-6.797	-7.45	0.114	21.16	279.4	0	-1.103	204.4	391.2
55	2/24/2012 1:00	100	-16.87	82.9	1.643	16.39	9.32	-38.67	0	0	-4.916	0	-6.832	-7.51	0.114	21.16	149.9	0	-1.103	204.4	391.2
55	2/24/2012 2:00	200	-17.51	82.7	1.18	23.09	6.68	-38.99	0	0	-5.228	0	-6.879	-7.57	0.114	21.15	0	0	-1.104	204.4	391.2
55	2/24/2012 3:00	300	-17.76	79.5	1.625	11.44	8.42	-38.49	0	0	-5.542	0	-6.929	-7.63	0.114	21.16	71.6	0	-1.106	204.4	391.2
55	2/24/2012 4:00	400	-17.99	78.1	1.877	8.26	5.939	-38.24	0	0	-5.832	0	-6.987	-7.7	0.114	21.15	444.2	0	-1.107	204.4	391.2
55	2/24/2012 5:00	500	-18.24	79.6	1.241	14.14	7.46	-37.72	0	0	-6.102	0	-7.05	-7.76	0.113	21.14	0	0	-1.106	204.4	391.2
55	2/24/2012 6:00	600	-18.6	79.6	1.576	21.85	7.54	-37.48	0	0	-6.347	0	-7.11	-7.83	0.113	21.13	0	0	-1.112	204.4	391.2
55	2/24/2012 7:00	700	-19.57	80.4	0.998	22.93	27	-34.31	0	0	-6.592	0	-7.18	-7.9	0.113	21.12	0	0	-1.102	204.4	391.2
55	2/24/2012 8:00	800	-19.64	81.8	0.956	23.81	33.57	-24.97	0	0	-6.835	0	-7.25	-7.97	0.113	21.11	0	0	-1.104	204.4	391.2
55	2/24/2012 9:00	900	-20.33	82.8	0.744	0.54	24.33	-36.41	0	0.304	-7.08	0	-7.33	-8.05	0.112	21.1	0	0	-1.105	204.4	391.2
55	2/24/2012 10:00	1000	-20.5	84.3	1.316	2.827	15.05	-38.49	0.027	1.419	-7.22	0	-7.4	-8.12	0.112	21.09	20.07	0	-1.112	204.4	391.2
55	2/24/2012 11:00	1100	-19.27	84.5	0.865	355.5	8.41	-28.9	0.097	1.064	-7.39	0	-7.47	-8.19	0.112	21.07	2.286	0	-1.111	204.3	391.1
55	2/24/2012 12:00	1200	-16.09	79	0.351	333.4	27.75	-35.46	0.182	0.97	-7.43	0	-7.55	-8.25	0.111	21.06	0	0	-1.119	204.3	391.1
55	2/24/2012 13:00	1300	-13.09	66.32	0.3	63.99	13.2	-43.34	0.3	0.889	-7.27	0	-7.62	-8.31	0.111	21.05	0	0	-1.113	204.3	391.1
55	2/24/2012 14:00	1400	-12.32	61.37	0.329	286.8	18.74	-51.38	0.321	0.852	-7.08	0	-7.69	-8.35	0.111	21.04	0	0	-1.114	204.3	391.1
55	2/24/2012 15:00	1500	-10.69	57.01	0.326	307.2	34.81	-61.08	0.328	0.802	-6.881	0	-7.75	-8.39	0.111	21.03	0	0	-1.117	204.3	391.1
55	2/24/2012 16:00	1600	-10.25	56.1	0.414	308.4	33.81	-68.2	0.261	0.877	-6.653	0	-7.8	-8.41	0.111	21.03	0	0	-1.12	204.2	391
55	2/24/2012 17:00	1700	-9.45	51.1	0.769	54.76	13.27	-60.74	0.178	0.97	-6.449	0	-7.84	-8.43	0.111	21.02	0	0	-1.115	204.3	391.1
55	2/24/2012 18:00	1800	-15.14	71.5	2.932	48.85	8.89	-32.98	0.046	1.206	-6.369	0	-7.87	-8.45	0.11	21.01	308.1	0	-1.103	204.3	391.1
55	2/24/2012 19:00	1900	-17.42	82.5	3.19	62.16	12.09	-25.07	0.005	0.944	-6.273	0	-7.89	-8.46	0.11	21.01	1391	0	-1.102	204.4	391.2
55	2/24/2012 20:00	2000	-17.46	84.5	2.985	43.39	14	-25.81	0	0	-6.159	0	-7.9	-8.47	0.111	21.02	557.8	0	-1.102	204.4	391.2
55	2/24/2012 21:00	2100	-17.1	82.7	1.66	41.46	13	-18.87	0	0	-5.972	0	-7.92	-8.48	0.11	21.02	172.2	0	-1.103	204.4	391.2
55	2/24/2012 22:00	2200	-17.54	83	0.77	267	23.16	-4.89	0	0	-5.943	0	-7.93	-8.48	0.11	21.01	29.72	0	-1.102	204.4	391.2
55	2/24/2012 23:00	2300	-17.38	83.8	0.504	213.7	40.99	-5.466	0	0	-5.782	0	-7.95	-8.49	0.11	21.01	7.87	0	-1.103	204.4	391.2
55	2/25/2012 0:00	2400	-16.83	82	1.355	67.49	30.34	-7.48	0	0	-5.734	0	-7.97	-8.5	0.11	21.01	431.5	0	-1.102	204.4	391.2
56	2/25/2012 1:00	100	-16.77	80.3	0.851	69.93	38.87	-6.755	0	0	-5.584	0	-7.98	-8.5	0.11	21.01	138.4	0	-1.1	204.4	391.2
56	2/25/2012 2:00	200	-17.21	80.3	1.032	142.1	41.73	-7.74	0	0	-5.434	0	-7.99	-8.5	0.11	21	39.37	0	-1.101	204.4	391.2
56	2/25/2012 3:00	300	-17.39	80.5	2.165	123.9	10.89	-8.49	0	0	-5.309	0	-8	-8.5	0.11	21.01	56.39	0	-1.101	204.4	391.2
56	2/25/2012 4:00	400	-17.48	80.4	2.152	142.4	13.93	-9.02	0	0	-5.294	0	-8	-8.5	0.11	21.01	28.96	0	-1.101	204.4	391.2
56	2/25/2012 5:00	500	-17.6	80.1	1.651	134.4	13.16	-9.26	0	0	-5.149	0	-8	-8.5	0.11	21.01	73.9	0	-1.101	204.4	391.2
56	2/25/2012 6:00	600	-17.77	80.1	1.463	133.3	26.72	-9.88	0	0	-5.097	0	-8	-8.5	0.11	21.01	125.2	0	-1.101	204.4	391.2
56	2/25/2012 7:00	700	-17.96	80.2	1.236	116.8	34.71	-9.89	0	0	-5.097	0	-8	-8.5	0.11	21	33.27	0	-1.101	204.4	391.2
56	2/25/2012 8:00	800	-18.37	80.7	1.822	96.1	15.08	-12.66	0	0	-5.097	0	-8	-8.51	0.11	21	368.3	0	-1.101	204.4	391.2
56	2/25/2012 9:00	900	-18.59	81	1.058	87.9	13.01	-13.66	0.001	0.344	-5.										



Faro Meteorological Data February 1 - February 29, 2012



Faro Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
56	2/25/2012 18:00	1800	-14.73	65.96	1.752	172.8	7.73	-58.3	0.068	1.386	-4.096	0	-8	-8.46	0.11	21.01	168.1	0	-1.104	204.3	391.1
56	2/25/2012 19:00	1900	-16.48	73.9	1.829	171.7	8.27	-49.31	0.006	1.215	-4.365	0	-7.99	-8.47	0.11	21.01	545.3	0	-1.106	204.3	391.1
56	2/25/2012 20:00	2000	-19.22	78.5	0.591	64.76	28.56	-43.58	0	0	-4.769	0	-7.98	-8.49	0.11	21.01	1.016	0	-0.405	204.4	391.2
56	2/25/2012 21:00	2100	-20.18	80.6	1.213	37.52	15.74	-43.6	0	0	-5.194	0	-7.98	-8.53	0.11	21.01	0	0	-1.106	204.4	391.2
56	2/25/2012 22:00	2200	-20.27	80	1.519	38.22	16.82	-40.75	0	0	-5.685	0	-7.99	-8.58	0.11	21.01	0	0	-1.119	204.4	391.2
56	2/25/2012 23:00	2300	-20.02	82.3	0.999	84.5	23.06	-39.49	0	0.005	-6.14	0	-8.02	-8.64	0.11	21	0	0	-1.112	204.4	391.2
56	2/26/2012 0:00	2400	-18.64	80.1	1.75	104	25.38	-38.84	0	0	-6.537	0	-8.06	-8.71	0.11	21	358.1	0	-1.112	204.4	391.2
57	2/26/2012 1:00	100	-18.01	75.9	2.397	104.8	16.37	-32.02	0	0	-6.888	0	-8.12	-8.78	0.11	21	153.2	0	-1.102	204.3	391.1
57	2/26/2012 2:00	200	-16.56	64.99	2.371	151.5	23.03	-40.36	0	0	-7.11	0	-8.17	-8.85	0.11	20.99	173.2	0	-1.1	204.3	391.1
57	2/26/2012 3:00	300	-15.6	56.93	1.693	176.3	41.36	-28.19	0	0	-7.22	0	-8.23	-8.9	0.11	20.98	64.77	0	-1.101	204.3	391.1
57	2/26/2012 4:00	400	-15.21	54.35	1.912	183.5	29.67	-32.32	0	0	-7.18	0	-8.28	-8.95	0.109	20.97	84.3	0	-1.102	204.3	391.1
57	2/26/2012 5:00	500	-15.57	56.01	2.233	148	12.43	-41.92	0	0	-7	0	-8.33	-8.99	0.109	20.96	320.8	0	-1.102	204.3	391.1
57	2/26/2012 6:00	600	-15.76	56.32	2.231	160	8.91	-44.72	0	0	-6.8	0	-8.37	-9.02	0.109	20.95	246.6	0	-1.1	204.3	391.1
57	2/26/2012 7:00	700	-16.61	58.23	1.453	123.1	19.64	-41.15	0	0	-6.628	0	-8.4	-9.04	0.109	20.95	0	0	-1.103	204.3	391.1
57	2/26/2012 8:00	800	-16.92	60.44	2.005	123.9	8.97	-31.22	0	0	-6.584	0	-8.43	-9.05	0.109	20.94	56.39	0	-1.102	204.3	391.1
57	2/26/2012 9:00	900	-17.4	66.25	2.17	115.4	17.41	-17.18	0.001	0.264	-6.584	0	-8.46	-9.07	0.109	20.94	323.8	0	-1.1	204.3	391.1
57	2/26/2012 10:00	1000	-16.95	64.21	1.956	103.4	13.07	-19.05	0.02	1.186	-6.584	0	-8.48	-9.1	0.109	20.94	67.31	0	-1.101	204.3	391.1
57	2/26/2012 11:00	1100	-16.4	61.03	2.058	110.1	8.6	-27.36	0.067	1.141	-6.398	0	-8.5	-9.11	0.109	20.93	0	0	-1.1	204.3	391.1
57	2/26/2012 12:00	1200	-15.81	60.78	2.339	132.1	7.37	-22.19	0.111	1.122	-6.046	0	-8.52	-9.11	0.109	20.94	116.6	0	-1.101	204.3	391.1
57	2/26/2012 13:00	1300	-14.15	53.54	2.47	136.1	8.09	-20.59	0.172	1.108	-5.683	0	-8.54	-9.11	0.108	20.93	37.59	0	-1.101	204.3	391.1
57	2/26/2012 14:00	1400	-12.64	48.64	2.2	170.2	13.42	-6.295	0.135	1.138	-5.36	0	-8.55	-9.09	0.108	20.93	37.85	0	-1.1	204.3	391.1
57	2/26/2012 15:00	1500	-12.28	49.09	2.529	195	12.62	-3.07	0.118	1.142	-5.014	0	-8.55	-9.07	0.108	20.93	2.54	0	-1.099	204.3	391.1
57	2/26/2012 16:00	1600	-11.55	48.6	1.446	127.8	22.15	0.016	0.103	1.139	-4.604	0	-8.54	-9.04	0.109	20.94	0	0	-1.1	204.3	391.1
57	2/26/2012 17:00	1700	-11.58	50.67	1.211	129	24.5	2.991	0.053	1.17	-4.291	0	-8.53	-9	0.109	20.94	0	0	-1.099	204.3	391.1
57	2/26/2012 18:00	1800	-12.11	54.15	1.423	106.9	22.14	-1.6	0.023	1.18	-4.038	0	-8.5	-8.96	0.109	20.93	0	0	-1.099	204.3	391.1
57	2/26/2012 19:00	1900	-12.69	60.95	2.146	121	19.09	-0.805	0.003	0.693	-3.849	0	-8.47	-8.92	0.109	20.94	88.1	0	-1.098	204.3	391.1
57	2/26/2012 20:00	2000	-13.42	72.3	2.313	119.4	12.58	-1.202	0	0	-3.797	0	-8.44	-8.89	0.109	20.94	4.064	0	-1.097	204.3	391.1
57	2/26/2012 21:00	2100	-13.49	78.3	2.113	101.4	12.59	-4.518	0	0	-3.61	0	-8.4	-8.85	0.109	20.94	0	0	-1.091	204.3	391.1
57	2/26/2012 22:00	2200	-13.4	81.3	2.184	120.2	12.67	-10.92	0	0	-3.609	0	-8.37	-8.82	0.109	20.95	0	0	-1.103	204.3	391.1
57	2/26/2012 23:00	2300	-13.25	79	2.028	100.2	11.06	-9.4	0	0	-3.533	0	-8.34	-8.8	0.109	20.95	0	0	-1.101	204.3	391.1
57	2/27/2012 0:00	2400	-12.73	75.8	1.261	116.6	27	-27.94	0	0	-3.41	0	-8.31	-8.78	0.109	20.95	0	0	-1.102	204.3	391.1
58	2/27/2012 1:00	100	-12.86	74.6	1.19	64.1	20.69	-33.42	0	0	-3.398	0	-8.28	-8.76	0.109	20.96	0	0	-1.105	204.3	391.1
58	2/27/2012 2:00	200	-12.55	75.2	0.889	67.04	33.75	-7.64	0	0	-3.578	0	-8.26	-8.74	0.109	20.96	0	0	-1.105	204.3	391.1
58	2/27/2012 3:00	300	-12.43	80.6	1.172	69.51	17.28	-16.1	0	0	-3.74	0	-8.24	-8.74	0.109	20.96	0	0	-1.1	204.4	391.2
58	2/27/2012 4:00	400	-12.16	82.7	1.188	48.79	19.5	-4.208	0	0	-3.822	0	-8.23	-8.75	0.109	20.97	0	0	-1.096	204.4	391.2
58	2/27/2012 5:00	500	-10.58	74.7	0.921	93.9	74.1	-4.042	0	0	-3.822	0	-8.22	-8.75	0.109	20.96	0	0	-1.097	204.3	391.1
58	2/27/2012 6:00	600	-9.65	70.8	1.67	193.3	78.2	-5.885	0	0	-3.818	0	-8.22	-8.74	0.109	20.97	75.2	0	-1.101	204.3	391.1
58	2/27/2012 7:00	700	-9.15	70.6	3.215	158.6	14.85	-6.831	0	0	-3.615	0	-8.21	-8.73	0.109	20.97	179.6	0	-1.101	204.3	391.1
58	2/27/2012 8:00	800	-9.04	71.4	3.718	160	13.21	-8.36	0	0	-3.454	0	-8.2	-8.71	0.109	20.97	128	0	-1.1	204.3	391.1
58	2/27/2012 9:00	900	-8.67	72	6.493	164.7	8.25	-10.27	0.001	0.249	-3.264	0	-8.19	-8.69	0.109	20.97	29.46	0	-1.103	204.3	391.1
58	2/27/2012 10:00	1000	-8.37	72.7	6.359	166.7	7.73	-5.261	0.014	1.125	-3.085	0	-8.17	-8.66	0.11	20.97	0	0	-1.103	204.3	391.1
58	2/27/2012 11:00	1100	-7.82	71.7	5.92	166.9	8.67	-4.765	0.053	1.09	-2.755	0	-8.14	-8.62	0.11	20.98	0.762	0	-1.103	204.3	391.1
58	2/27/2012 12:00	1200	-7.37	71.1	5.926	165.3	9.25	15.11	0.098	1.077	-2.177	0	-8.1	-8.57	0.11	20.98	0	0	-1.102	204.3	391.1
58	2/27/2012 13:00	1300	-6.915	69.49	5.869	166.9	9.46	25.86	0.142	1.068	-1.336	0	-8.07	-8.49	0.11	20.99	13.46	0	-1.102	204.3	391.1
58	2/27/2012 14:00	1400	-6.143	66.19	5.21	165.2	12.27	26.18	0.189	1.049	-0.409	0	-8.02	-8.4	0.11	20.99	97	0	-1.102	204.3	391.1
58	2/27/2012 15:00	1500	-5.803	65.96	5.398	167.4	8.82	24.31	0.184	1.057	0.305	0	-7.97	-8.29	0.11	21	84.8	0	-1.102	204.3	391.1
58	2/27/2012 16:00	1600	-5.696	64.41	5.374	167.4	8.6	-14.96	0.13	1.081	0.637	0	-7.92	-8.2	0.11	21.01	53.85	0	-1.101	204.3	391.1
58	2/27/2012 17:00	1700	-5.542	62.9	4.795	167.5	8.69	0.643	0.126	1.074	0.65	0	-7.86	-8.12	0.11	21.01	0	0	-1.101	204.3	391.1
58	2/27/2012 18:00	1800	-6.076	65.48	3.822	161.2	9.24	-23.88	0.052	1.146	0.329	0	-7.79	-8.07	0.111	21.02	210.3	0	-1.101	204.3	391.1
58	2/27/2012 19:00	1900	-7.15	70.6	3.218	150.2	9.9	-49.03	0.006	1.118	-0.181	0	-7.74	-8.04	0.111	21.02	444.8	0	-1.102	204.3	391.1
58	2/27/2012 20:00	2000	-8.01	73.3	1.9	135.5	13.3	-48.14	0	0	-0.801	0	-7.68	-8.03	0.111	21.03	0	0	-1.103	204.4	391.2
58	2/27/2012 21:00	2100	-8.45	75.8	0.832	101.5	21.6	-15.2	0	0	-1.472	0	-7.64	-8.04	0.111	21.05	0	0	-1.102	204.4	391.2
58	2/27/2012 22:00	2200	-7.61	75.9	1.524	136.6	20.34	-11.63	0	0	-2.112	0	-7.6	-8.07	0.111	21.04	0	0	-1.104	204.4	391.2
58	2/27/2012 23:00	2300	-7.55	74.1	1.209	101.4	15.38	-6.243	0	0	-2.463	0	-7.58	-8.1	0.111	21.04	0	0	-1.103	204.3	391.1
58	2/28/2012 0:00	2400	-7.65	75.1	0.936	107	18.68	-9.93	0	0	-2.452	0	-7.57	-8.11	0.111	21.04	0	0	-1.103	204.4	391.2
59	2/28/2012 1:00	100	-8.09	77.2	1.073	32.01	45.15	-10.32	0	0	-2.335	0	-7.56	-8.11	0.111	21.05	0	0	-1.103	204.4	391.2
59	2/28/2012 2:00	200	-8.62	81.8	1.302	113.7	18.81	-13.58	0	0	-2.247	0	-7.55	-8.11	0.111	21.04	0	0	-1.116	204.4	391.2
59	2/28/2012 3:00	300	-9.32	87.2	0.683	40.8	29.69	-17.44	0												



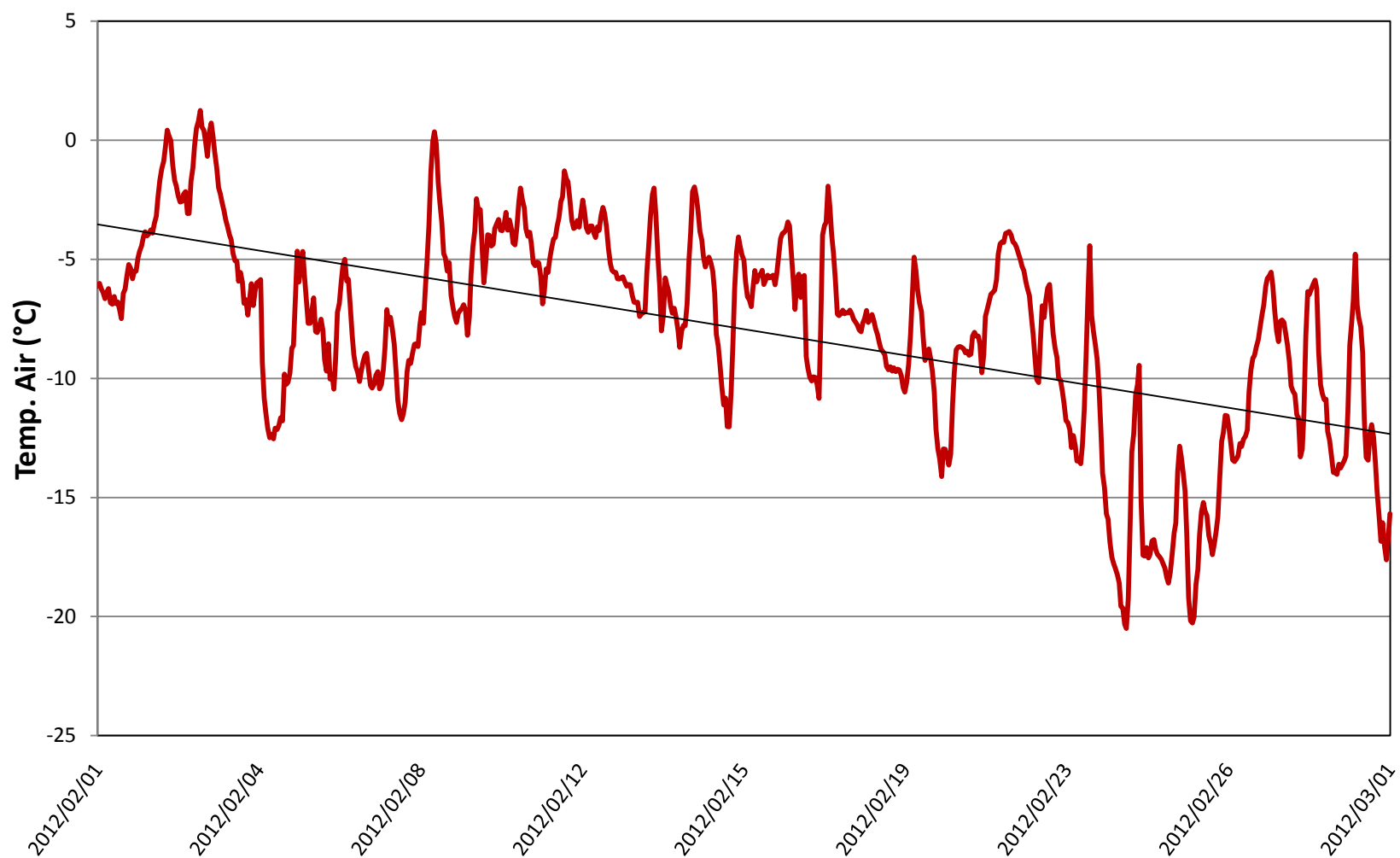
Faro Meteorological Data
February 1 - February 29, 2012



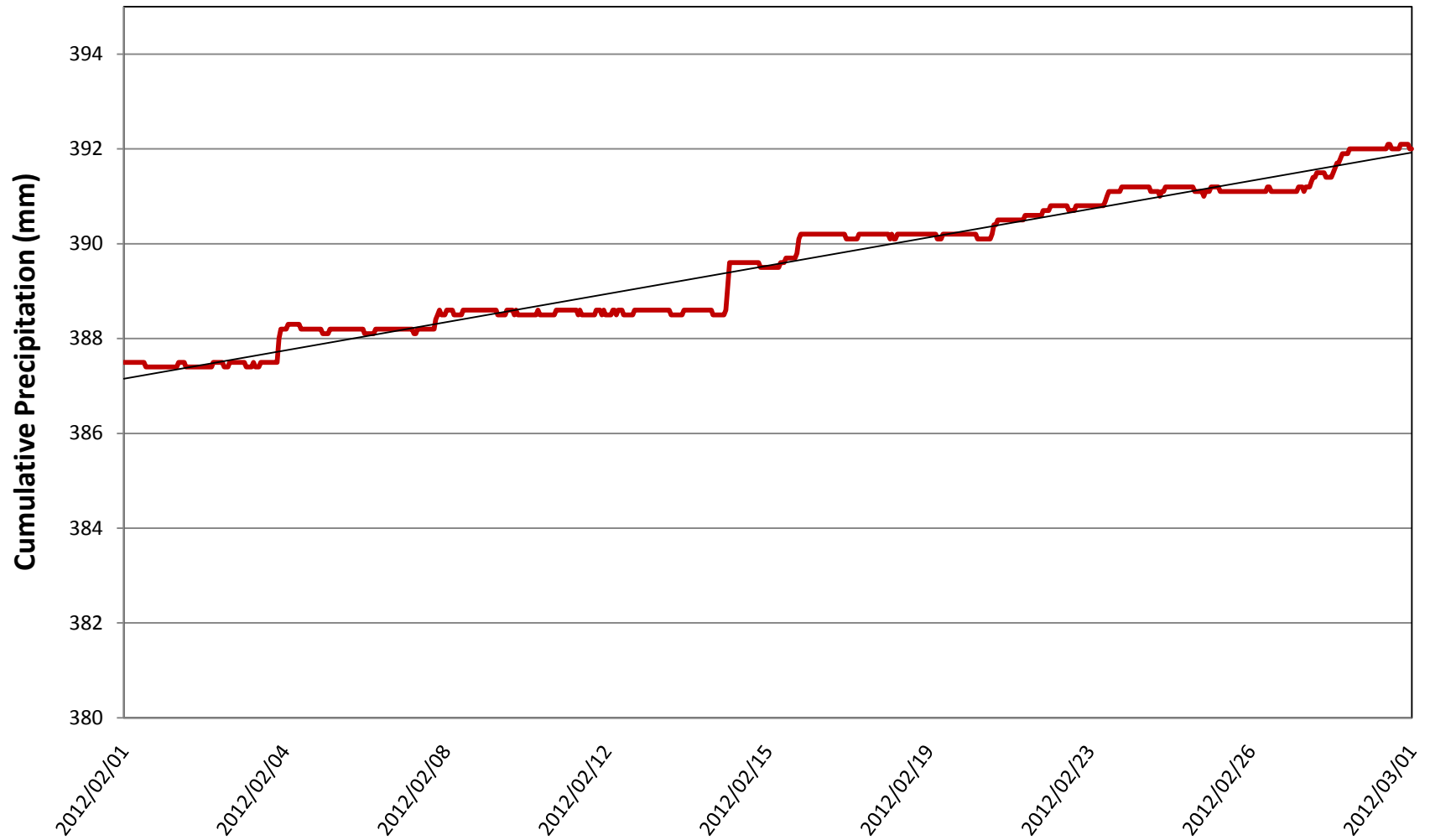
Faro Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
59	2/28/2012 12:00	1200	-8.23	72.3	0.411	96.6	14.08	-15.47	0.113	1.198	-4.614	0	-7.61	-8.36	0.111	21.04	0	0	-1.111	204.6	391.4
59	2/28/2012 13:00	1300	-6.354	65.29	0.732	96.7	8.65	-25.76	0.145	1.169	-4.032	0	-7.65	-8.38	0.111	21.03	0	0	-1.111	204.6	391.4
59	2/28/2012 14:00	1400	-6.466	67.16	0.751	93.4	13.24	-34.25	0.174	1.143	-3.115	0	-7.68	-8.35	0.111	21.04	0	0	-1.112	204.6	391.4
59	2/28/2012 15:00	1500	-6.257	70.1	1.027	43.1	7.9	-37.55	0.181	1.147	-2.185	0	-7.7	-8.3	0.111	21.04	0	0	-1.106	204.7	391.5
59	2/28/2012 16:00	1600	-6.046	75.6	0.895	32.45	10.27	-57.07	0.173	1.163	-1.299	0	-7.71	-8.22	0.111	21.03	0	0	-1.108	204.8	391.6
59	2/28/2012 17:00	1700	-5.869	75.5	0.655	64.22	10.18	-35.98	0.09	1.199	-0.96	0	-7.69	-8.15	0.111	21.03	0	0	-1.103	204.9	391.7
59	2/28/2012 18:00	1800	-6.245	75.2	0.283	65.5	2.781	-23.14	0.039	1.221	-0.849	0	-7.67	-8.09	0.111	21.03	0	0	-1.099	204.9	391.7
59	2/28/2012 19:00	1900	-8.9	84	0.874	47.82	13.43	-11.84	0.008	1.023	-0.931	0	-7.63	-8.04	0.111	21.05	0	0	-1.096	205	391.8
59	2/28/2012 20:00	2000	-10.27	88.4	0.894	66.94	19.58	-11.52	0	0	-1.163	0	-7.59	-8.01	0.111	21.04	0	0	-1.092	205.1	391.9
59	2/28/2012 21:00	2100	-10.62	86.5	1.292	31.77	5.536	-12.7	0	0	-1.43	0	-7.55	-7.99	0.111	21.05	0	0	-1.096	205.1	391.9
59	2/28/2012 22:00	2200	-10.89	88.3	0.61	40.68	6.841	-9.91	0	0	-1.785	0	-7.52	-7.99	0.111	21.05	0	0	-1.095	205.1	391.9
59	2/28/2012 23:00	2300	-10.88	87.1	1.011	18.12	7.52	-12.54	0	0	-2.06	0	-7.49	-7.99	0.111	21.05	0	0	-1.103	205.1	391.9
59	2/29/2012 0:00	2400	-12.23	87.9	0.824	21.32	26.72	-17.96	0	0	-2.351	0	-7.47	-8	0.111	21.05	0	0	-1.1	205.2	392
60	2/29/2012 1:00	100	-12.6	86.5	0.86	5.094	14.19	-18.01	0	0	-2.649	0	-7.46	-8.02	0.111	21.06	0	0	-1.101	205.2	392
60	2/29/2012 2:00	200	-13.26	85.4	1.04	25.42	32.39	-18.53	0	0	-3.074	0	-7.45	-8.05	0.111	21.06	0	0	-1.094	205.2	392
60	2/29/2012 3:00	300	-13.95	84.2	1.878	6.394	7.98	-22.24	0	0	-3.516	0	-7.46	-8.09	0.111	21.06	0	0	-1.095	205.2	392
60	2/29/2012 4:00	400	-13.95	84.1	1.634	23.74	7.61	-16.12	0	0	-3.925	0	-7.46	-8.14	0.111	21.06	0	0	-1.094	205.2	392
60	2/29/2012 5:00	500	-14.03	86.5	0.507	16.07	25.66	-12.38	0	0	-4.196	0	-7.48	-8.18	0.111	21.06	0	0	-1.093	205.2	392
60	2/29/2012 6:00	600	-13.6	88.3	0.77	282.6	27.81	-6.239	0	0	-4.394	0	-7.51	-8.23	0.111	21.05	0	0	-1.09	205.2	392
60	2/29/2012 7:00	700	-13.77	88.4	0.672	309.2	9.22	-1.403	0	0	-4.579	0	-7.53	-8.27	0.111	21.05	0	0	-1.092	205.2	392
60	2/29/2012 8:00	800	-13.61	88.6	0.343	260.4	29.29	-3.203	0	0	-4.579	0	-7.56	-8.31	0.111	21.04	0	0	-1.093	205.2	392
60	2/29/2012 9:00	900	-13.45	88.5	0.265	187.8	24.23	-3.875	0.002	0.533	-4.401	0	-7.59	-8.33	0.111	21.04	0	0	-1.096	205.2	392
60	2/29/2012 10:00	1000	-13.25	87.6	0.241	258.8	12.07	-11.45	0.02	1.328	-4.154	0	-7.61	-8.34	0.111	21.04	0	0	-1.1	205.2	392
60	2/29/2012 11:00	1100	-11.39	83.2	0.165	46.4	41.18	-20.57	0.057	1.325	-3.799	0	-7.63	-8.33	0.111	21.04	0	0	-1.104	205.2	392
60	2/29/2012 12:00	1200	-8.6	72.6	0.424	107.5	20.45	-26.96	0.122	1.281	-3.307	0	-7.65	-8.32	0.111	21.03	0	0	-1.105	205.2	392
60	2/29/2012 13:00	1300	-7.64	70.5	0.752	99.6	23.13	-35.63	0.138	1.259	-2.747	0	-7.65	-8.28	0.111	21.04	0	0	-1.105	205.2	392
60	2/29/2012 14:00	1400	-6.704	66.72	0.809	31.31	21.74	-58.46	0.203	1.212	-2.111	0	-7.65	-8.23	0.111	21.03	0	0	-1.105	205.2	392
60	2/29/2012 15:00	1500	-4.784	59.16	0.997	146.4	29.88	-71.6	0.274	1.126	-1.279	0	-7.64	-8.16	0.111	21.04	6.604	0	-1.104	205.2	392
60	2/29/2012 16:00	1600	-6.924	67.4	4.728	170.3	9.42	-38.35	0.268	1.165	-0.618	0	-7.63	-8.08	0.111	21.03	173.5	0	-1.096	205.2	392
60	2/29/2012 17:00	1700	-7.47	66.75	4.353	172.2	7.45	-32.39	0.138	1.336	-0.424	0	-7.6	-8.01	0.111	21.04	168.4	0	-1.098	205.2	392
60	2/29/2012 18:00	1800	-7.84	68.32	2.692	173.7	11.88	-39.36	0.077	1.476	-0.425	0	-7.56	-7.95	0.111	21.04	979	0	-1.099	205.2	392
60	2/29/2012 19:00	1900	-8.92	72	1.661	172.1	14.86	-47.01	0.013	1.614	-0.673	0	-7.51	-7.91	0.111	21.05	1059	0	-1.099	205.2	392
60	2/29/2012 20:00	2000	-11.7	76.5	1.3	43.67	28.34	-44.69	0	0	-1.035	0	-7.47	-7.89	0.111	21.05	10.92	0	-1.098	205.2	392
60	2/29/2012 21:00	2100	-13.32	78.5	1.452	23.45	19	-41.23	0	0	-1.482	0	-7.43	-7.88	0.112	21.06	0	0	-1.095	205.3	392.1
60	2/29/2012 22:00	2200	-13.43	80	1.38	41.69	16.08	-29.52	0	0	-1.965	0	-7.41	-7.9	0.112	21.06	0	0	-1.094	205.3	392.1
60	2/29/2012 23:00	2300	-12.29	79.9	1.009	64.28	28.03	-24.75	0	0	-2.427	0	-7.4	-7.92	0.112	21.06	0	0	-1.094	205.2	392
60	3/1/2012 0:00	2400	-11.94	78.9	1.172	97.7	40.82	-33.32	0	0	-2.823	0	-7.41	-7.95	0.112	21.06	0.254	0	-1.099	205.2	392
61	3/1/2012 1:00	100	-12.47	78.8	0.972	112.7	35.95	-27.03	0	0	-3.095	0	-7.43	-7.99	0.112	21.06	0	0	-1.095	205.2	392
61	3/1/2012 2:00	200	-13.57	79.4	1.142	54.78	26.25	-35.17	0	0	-3.325	0	-7.45	-8.03	0.111	21.06	0	0	-1.095	205.2	392
61	3/1/2012 3:00	300	-14.76	80.8	1.521	29.49	8.68	-39.44	0	0	-3.538	0	-7.48	-8.06	0.111	21.05	0	0	-1.097	205.2	392
61	3/1/2012 4:00	400	-15.75	81.3	1.076	37.71	11.84	-38.99	0	0	-3.739	0	-7.51	-8.1	0.111	21.05	0	0	-1.099	205.3	392.1
61	3/1/2012 5:00	500	-16.84	83	1.314	44.26	14.12	-38.85	0	0	-4.021	0	-7.55	-8.14	0.111	21.05	0	0	-1.095	205.3	392.1
61	3/1/2012 6:00	600	-16.06	84.1	0.738	80.6	29.96	-36.89	0	0	-4.353	0	-7.59	-8.19	0.111	21.05	0	0	-1.096	205.3	392.1
61	3/1/2012 7:00	700	-17.04	84.6	0.784	84.5	25.01	-35.76	0	0	-4.72	0	-7.64	-8.25	0.111	21.05	0	0	-1.099	205.3	392.1
61	3/1/2012 8:00	800	-17.62	83.1	0.881	55.91	31.05	-35.84	0	0	-5.081	0	-7.69	-8.31	0.111	21.04	0	0	-1.099	205.3	392.1
61	3/1/2012 9:00	900	-16.65	81.9	1.019	98.5	25.61	-35.92	0.002	1.108	-5.435	0	-7.75	-8.38	0.111	21.03	0	0	-1.098	205.2	392
61	3/1/2012 10:00	1000	-15.68	73.2	1.013	60.27	23.85	-26.35	0.086	1.188	-5.718	0	-7.82	-8.45	0.111	21.02	0	0	-1.1	205.2	392

Faro Air Temperature - February 2012



Faro Cumulative Precipitation - February 2012

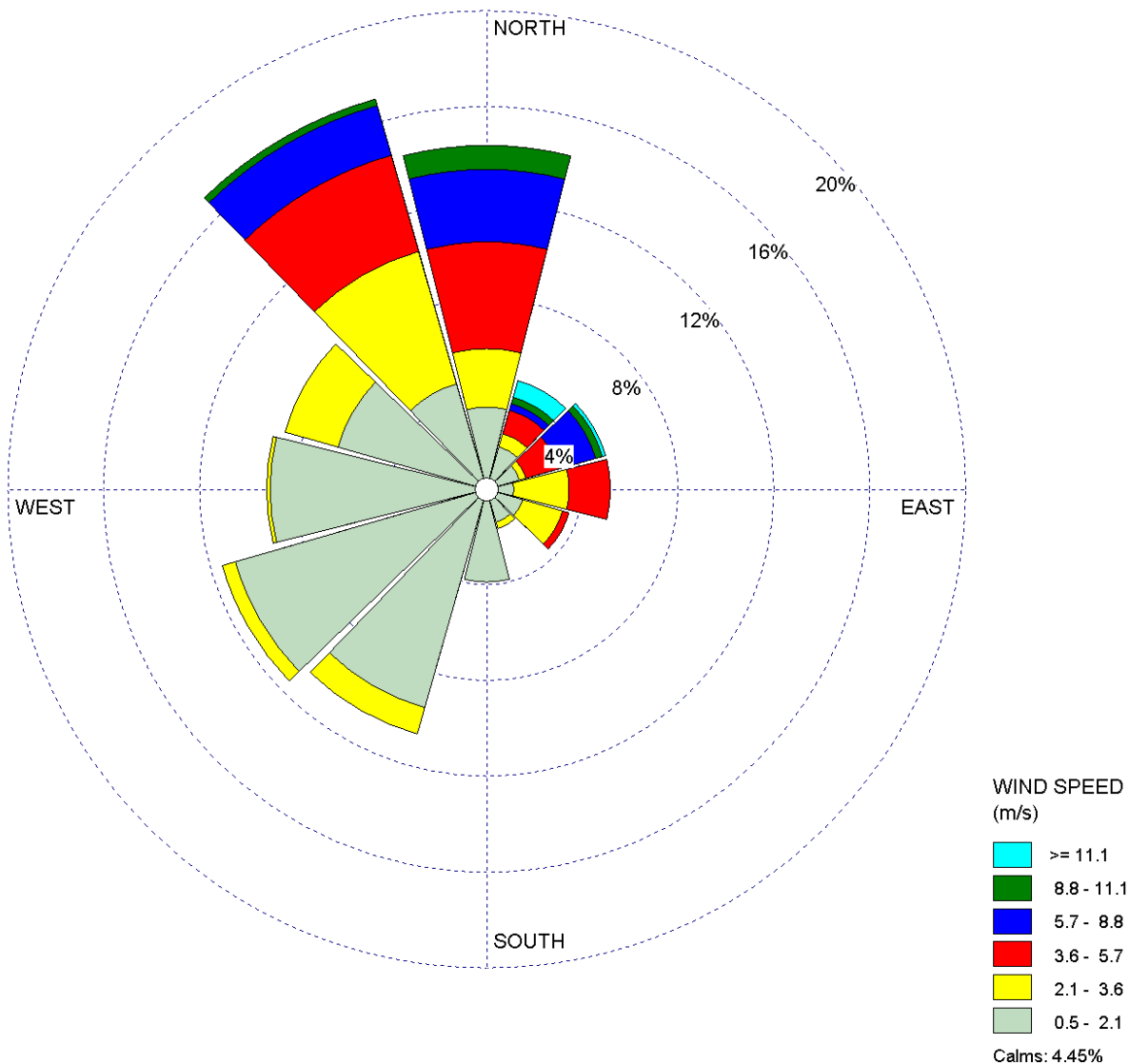


WIND ROSE PLOT:

Station #1 - Faro Climate Station
Faro, YT

DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:

DATA PERIOD:

Start Date: 2/1/2012 - 00:00
End Date: 3/1/2012 - 00:00

COMPANY NAME:

Denison Environmental Services

MODELER:

Tracey Parkin

CALM WINDS:

4.45%

TOTAL COUNT:

697 hrs.

AVG. WIND SPEED:

2.49 m/s

DATE:

3/14/2012

PROJECT NO.:



Grum Meteorological



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
31	2/1/2012 0:00	2400	-8.07	82.6	1.16	10.94	35.98	-12.15	0	0.027	1.045	0	-6.565	-6.417	0.043	17.8	0	0	-1.27	209.7	420.2
32	2/1/2012 1:00	100	-7.8	82.6	0.637	2.148	42.71	-6.84	0	0	1.128	0	-6.534	-6.388	0.043	17.81	0	0	-1.27	209.7	420.2
32	2/1/2012 2:00	200	-7.64	80.3	0.794	39.83	19.07	-10.72	0	0	1.254	0	-6.508	-6.361	0.043	17.81	0	0	-1.274	209.7	420.2
32	2/1/2012 3:00	300	-7.58	78.5	0.642	41.34	30.64	-8.86	0	0	1.253	0	-6.482	-6.335	0.043	17.8	0	0	-1.271	209.7	420.2
32	2/1/2012 4:00	400	-7.71	79	1.217	18.34	11.07	-8.5	0	0	1.255	0	-6.457	-6.31	0.043	17.81	0	0	-1.272	209.8	420.3
32	2/1/2012 5:00	500	-7.67	78.2	1.206	9.81	28.97	-12.55	0	0	1.254	0	-6.433	-6.286	0.043	17.81	0	0	-1.274	209.8	420.3
32	2/1/2012 6:00	600	-8.22	76.7	1.085	8.42	32.22	-10.07	0	0	1.254	0	-6.41	-6.264	0.043	17.81	0	0	-1.271	209.8	420.3
32	2/1/2012 7:00	700	-7.89	76.5	1.215	16.87	23.4	-13.06	0	0.015	1.277	0	-6.387	-6.24	0.043	17.81	0	0	-1.27	209.8	420.3
32	2/1/2012 8:00	800	-7.23	74.3	0.818	20.94	64.25	-9.31	0	0	1.461	0	-6.364	-6.216	0.043	17.81	0	0	-1.269	209.8	420.3
32	2/1/2012 9:00	900	-7.14	71.7	0.758	82.9	51.28	-16.23	0	0	1.462	0	-6.343	-6.193	0.044	17.81	0	0	-1.274	209.8	420.3
32	2/1/2012 10:00	1000	-7.79	70.8	1.301	92.7	15.53	-26.93	0	0.232	1.458	0	-6.324	-6.174	0.044	17.81	0	0	-1.272	209.8	420.3
32	2/1/2012 11:00	1100	-6.758	65.92	1.63	112.9	13	-40.65	0.014	2.678	1.489	0	-6.305	-6.153	0.044	17.81	0	0	-1.274	209.8	420.3
32	2/1/2012 12:00	1200	-6.625	65.56	2.085	113.1	14.31	-38.86	0.031	2.316	1.673	0	-6.285	-6.132	0.044	17.81	0	0	-1.272	209.7	420.2
32	2/1/2012 13:00	1300	-7.32	71.1	3.577	110.2	14.7	-38.13	0.07	1.067	1.889	0	-6.272	-6.114	0.043	17.81	0	0	-1.271	209.7	420.2
32	2/1/2012 14:00	1400	-5.998	66.08	3.931	117.5	14.71	-65.11	0.076	1.971	2.016	0	-6.259	-6.096	0.043	17.81	0	0	-1.272	209.7	420.2
32	2/1/2012 15:00	1500	-6.681	68.74	4.794	111.7	14.54	-42.03	0.058	1.107	1.878	0	-6.248	-6.082	0.043	17.81	0	0	-1.271	209.7	420.2
32	2/1/2012 16:00	1600	-6.436	68.36	5.543	108.2	14.97	-18.76	0.042	0.872	2.036	0	-6.236	-6.068	0.044	17.81	0	0	-1.273	209.7	420.2
32	2/1/2012 17:00	1700	-6.85	72.9	6.046	109.5	14.68	-15.3	0.009	0.97	2.285	0	-6.226	-6.054	0.044	17.81	0	0	-1.274	209.7	420.2
32	2/1/2012 18:00	1800	-7.22	76.6	6.058	104.7	13.04	-14.5	0.001	0.246	2.294	0	-6.221	-6.042	0.043	17.81	0	0	-1.274	209.7	420.2
32	2/1/2012 19:00	1900	-7.25	77.8	5.798	107.6	13.79	-13.77	0	0	2.478	0	-6.215	-6.031	0.043	17.81	0	0	-1.293	209.7	420.2
32	2/1/2012 20:00	2000	-7.39	80.1	6.222	113.2	14.57	-13.63	0	0.005	2.504	0	-6.209	-6.02	0.043	17.81	0	0	-1.293	209.6	420.1
32	2/1/2012 21:00	2100	-6.972	77.8	6.917	113	14.59	-19.87	0	0.018	2.522	0	-6.202	-6.01	0.044	17.81	0	0	-1.293	209.7	420.2
32	2/1/2012 22:00	2200	-6.648	76.7	7.48	115.4	14.48	-24.63	0	0	2.763	0	-6.192	-5.998	0.044	17.81	0	0	-1.293	209.6	420.1
32	2/1/2012 23:00	2300	-6.247	77.9	6.22	110.4	15.44	-13.99	0	0.002	2.424	0	-6.186	-5.987	0.043	17.81	0	0	-1.294	209.7	420.2
32	2/2/2012 0:00	2400	-6.261	83.2	5.637	99.9	14.73	-10.89	0	0	1.816	0	-6.172	-5.975	0.044	17.81	0	0	-1.294	209.6	420.1
33	2/2/2012 1:00	100	-6.165	84.3	5.837	97.2	14.98	-11.02	0	0.005	1.439	0	-6.146	-5.963	0.043	17.81	0	0	-1.293	209.6	420.1
33	2/2/2012 2:00	200	-6.07	87.5	5.809	106.4	13.3	-10.67	0	0	1.15	0	-6.115	-5.947	0.044	17.81	0	0	-1.293	209.7	420.2
33	2/2/2012 3:00	300	-5.661	87.2	5.158	109.5	14.34	-7.38	0	0.047	0.832	0	-6.081	-5.927	0.044	17.81	0	0	-1.293	209.7	420.2
33	2/2/2012 4:00	400	-4.926	84.1	4.69	101.9	14.58	-7.04	0	0.031	0.614	0	-6.041	-5.906	0.044	17.81	0	0	-1.293	209.7	420.2
33	2/2/2012 5:00	500	-4.477	83.9	5.218	106.9	13.16	-5.294	0	0.023	0.259	0	-5.999	-5.88	0.044	17.81	0	0	-1.293	209.8	420.3
33	2/2/2012 6:00	600	-4.347	84.7	4.496	122.2	17.89	-6.13	0	0.032	-0.248	0	-5.952	-5.854	0.044	17.81	0	0	-1.293	209.8	420.3
33	2/2/2012 7:00	700	-4.4	85.9	2.999	105.3	23.85	-19.32	0	0	-0.26	0	-5.901	-5.825	0.044	17.82	0	0	-1.293	209.9	420.4
33	2/2/2012 8:00	800	-4.373	83.4	2.447	94.6	18.46	-33.09	0	0.018	-0.106	0	-5.855	-5.795	0.044	17.82	0	0	-1.293	209.9	420.4
33	2/2/2012 9:00	900	-3.26	70.8	1.596	87	42.14	-25.39	0	0.023	0.249	0	-5.815	-5.762	0.044	17.82	0	0	-1.295	209.9	420.4
33	2/2/2012 10:00	1000	-2.725	61.85	1.534	94	59.72	-30.02	0.001	0.291	0.419	0	-5.781	-5.731	0.044	17.82	0	0	-1.295	209.9	420.4
33	2/2/2012 11:00	1100	-1.737	56.12	2.021	238.7	46.57	-50.88	0.028	1.141	0.618	0	-5.75	-5.7	0.044	17.82	0	0	-1.294	209.8	420.3
33	2/2/2012 12:00	1200	-0.692	48.82	2.628	241.1	24.45	-66.85	0.088	1.047	0.481	0	-5.72	-5.669	0.044	17.82	0	0	-1.295	209.8	420.3
33	2/2/2012 13:00	1300	0.045	41.19	3.045	220.9	19.19	-75.9	0.143	1.006	0.058	0	-5.687	-5.641	0.044	17.82	0	0	-1.296	209.8	420.3
33	2/2/2012 14:00	1400	0.206	39.52	3.425	221.5	26.18	-73.9	0.146	0.975	-0.343	0	-5.651	-5.615	0.044	17.83	0	0	-1.295	209.8	420.3
33	2/2/2012 15:00	1500	-0.343	43.79	2.332	220.8	28.27	-35.11	0.086	0.874	-0.417	0	-5.61	-5.588	0.044	17.83	0	0	-1.294	209.8	420.3
33	2/2/2012 16:00	1600	-0.509	44.07	1.979	228.6	36.12	-45.82	0.066	0.913	-0.401	0	-5.567	-5.557	0.044	17.83	0	0	-1.294	209.8	420.3
33	2/2/2012 17:00	1700	-2.167	47.87	1.191	201.3	42.4	-44.27	0.021	0.954	-0.124	0	-5.532	-5.528	0.044	17.83	0	0	-1.293	209.9	420.4
33	2/2/2012 18:00	1800	-2.476	51.27	2.56	170.9	17.95	-33.17	0.002	0.616	0.399	0	-5.505	-5.499	0.044	17.83	0	0	-1.294	209.9	420.4
33	2/2/2012 19:00	1900	-2.856	56.86	2.68	134.7	17.66	-28.67	0	0	0.626	0	-5.487	-5.471	0.044	17.83	0	0	-1.295	209.9	420.4
33	2/2/2012 20:00	2000	-3.18	61.61	2.677	107.6	13.84	-24.18	0	0	0.739	0	-5.476	-5.447	0.044	17.83	0	0	-1.293	209.9	420.4
33	2/2/2012 21:00	2100	-3.071	63.03	3.045	113.4	14.04	-18.1	0	0.015	0.796	0	-5.466	-5.425	0.044	17.83	0	0	-1.294	209.9	420.4
33	2/2/2012 22:00	2200	-2.752	62.96	4.184	115.2	14.04	-16.06	0	0	0.602	0	-5.454	-5.407	0.044	17.83	0	0	-1.294	209.8	420.3
33	2/2/2012 23:00	2300	-2.932	67.49	4.339	111.6	13.64	-10.47	0	0	0.144	0	-5.434	-5.389	0.044	17.83	0	0	-1.293	209.8	420.3
33	2/3/2012 0:00	2400	-2.996	72	4.164	116.2	14.32	-9.39	0	0	-0.359	0	-5.406	-5.37	0.044	17.83	0	0	-1.293	209.8	420.3
34	2/3/2012 1:00	100	-3.785	87.1	5.04	123.1	13.92	-3.065	0	0.006	-0.627	0	-5.372	-5.351	0.044	17.83	0	0	-1.293	210.1	420.6
34	2/3/2012 2:00	200	-3.889	93.3	5.531	115.7	13.8	-3.555	0	0.058	-0.845	0	-5.334	-5.328	0.044	17.83	0	0	-1.293	210.2	420.7
34	2/3/2012 3:00	300	-3.51	91.7	5.422	116.8	13.97	-7.37	0	0.015	-1.082	0	-5.295	-5.301	0.044	17.83	0	0	-1.293	210.2	420.7
34	2/3/2012 4:00	400	-3.201	90.4	5.593	116	15.71	-25.51	0	0	-1.266	0	-5.253	-5.273	0.044	17.83	0	0	-1.294	210.2	420.7
34	2/3/2012 5:00	500	-2.594	87.8	5.71	107.9	14.79	-35.25	0	0	-1.287	0	-5.209	-5.244	0.044	17.83	0	0	-1.294	210.2	420.7
34	2/3/2012 6:00	600	-1.998	85	6.82	114.7	14.37	-51.56	0	0	-1.795	0	-5.166	-5.213	0.044	17.83	0	0	-1.294	210.2	420.7
34	2/3/2012 7:00	700	-1.506	83.8	7.35	114.3	13.58	-44.2	0	0	-2.641	0	-5.116	-5.18	0.044	17.83	0	0	-1.293	210.1	420.6
34	2/3/2012 8:00	800	-0.98	80.7	7.12	110.8	14.08	-40.31	0	0	-3.86	0	-5.056	-5.146	0.044	17.84	0	0	-1.295	210.1	420.6
34	2/3/2012 9:00	900	-1.438	79.5																	



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
34	2/3/2012 18:00	1800	-2.095	46.74	5.01	200.2	18.54	-43.32	0.007	0.69	-0.523	0	-4.584	-4.74	0.044	17.85	0	0	-1.294	210.2	420.7
34	2/3/2012 19:00	1900	-2.687	47.27	5.32	228	18.72	-51.81	0	0	0.075	0	-4.585	-4.712	0.044	17.83	0	0	-1.295	210.2	420.7
34	2/3/2012 20:00	2000	-2.986	47.05	4.941	242.7	21.3	-50	0	0	0.586	0	-4.595	-4.69	0.044	17.83	0	0	-1.295	210.2	420.7
34	2/3/2012 21:00	2100	-3.483	46.74	4.255	243.4	21.64	-58.84	0	0	1.007	0	-4.616	-4.678	0.044	17.83	0	0	-1.295	210.1	420.6
34	2/3/2012 22:00	2200	-3.705	44.2	5.372	235.6	19.07	-63.09	0	0	1.411	0	-4.645	-4.673	0.044	17.84	0	0	-1.295	210.1	420.6
34	2/3/2012 23:00	2300	-4.107	42.22	3.767	260.8	25.39	-65.68	0	0	1.772	0	-4.677	-4.674	0.044	17.84	0	0	-1.293	210.2	420.7
34	2/4/2012 0:00	2400	-4.357	40.62	3.538	281	23.44	-66.52	0	0	2.965	0	-4.715	-4.682	0.044	17.84	0	0	-1.294	210.2	420.7
35	2/4/2012 1:00	100	-4.544	40.83	2.496	263.9	24.22	-46.56	0	0	3.739	0	-4.763	-4.693	0.044	17.84	0	0	-1.295	210.2	420.7
35	2/4/2012 2:00	200	-4.727	39.35	2.192	259.4	27.81	-55.99	0	0	3.528	0	-4.809	-4.71	0.044	17.83	0	0	-1.294	210.2	420.7
35	2/4/2012 3:00	300	-5.639	42.31	2.367	325.4	33.95	-57.24	0	0.046	3.799	0	-4.847	-4.729	0.044	17.83	0	0	-1.295	210.2	420.7
35	2/4/2012 4:00	400	-7.12	48.11	1.768	353.7	36.32	-48.53	0	0	4.771	0	-4.885	-4.745	0.044	17.83	0	0	-1.298	210.2	420.7
35	2/4/2012 5:00	500	-8.68	56.22	1.587	48.6	27.48	-18.62	0	0.054	5.267	0	-4.93	-4.762	0.044	17.83	0	0	-1.296	210.2	420.7
35	2/4/2012 6:00	600	-6.188	51.22	1.703	86.4	13.52	-21.46	0	0.015	5.402	0	-4.97	-4.777	0.044	17.83	0	0	-1.295	210.2	420.7
35	2/4/2012 7:00	700	-6.548	51.49	2.132	82.1	17.68	-44.77	0	0	4.74	0	-5.01	-4.794	0.044	17.83	0	0	-1.295	210.2	420.7
35	2/4/2012 8:00	800	-6.797	49.82	1.778	87.9	37.89	-53.25	0	0	4.875	0	-5.035	-4.809	0.044	17.83	0	0	-1.294	210.2	420.7
35	2/4/2012 9:00	900	-7.12	53.7	1.954	83	19.09	-51.83	0	0	4.831	0	-5.058	-4.822	0.044	17.83	0	0	-1.296	210.2	420.7
35	2/4/2012 10:00	1000	-7.33	59.62	2.141	96.5	19.56	-37.62	0.001	0.374	5.333	0	-5.079	-4.834	0.044	17.83	0	0	-1.295	210.2	420.7
35	2/4/2012 11:00	1100	-6.61	60.99	1.757	97.7	17.1	-13.59	0.015	0.939	5.049	0	-5.103	-4.845	0.044	17.83	0	0	-1.294	210.1	420.6
35	2/4/2012 12:00	1200	-6.218	64.36	1.509	104.7	19.2	-3.898	0.022	0.794	4.05	0	-5.119	-4.858	0.044	17.83	0	0	-1.295	210.2	420.7
35	2/4/2012 13:00	1300	-6.77	81.4	0.868	313.1	41.88	-10.84	0.036	0.835	2.956	0	-5.117	-4.869	0.044	17.83	0	0	-1.294	210.8	421.3
35	2/4/2012 14:00	1400	-6.595	85.7	1.82	298.4	16.53	-40.39	0.107	1.038	2.101	0	-5.099	-4.874	0.044	17.83	0	0	-1.287	211	421.5
35	2/4/2012 15:00	1500	-6.205	81.4	3.69	295.8	14.48	-51.86	0.118	1.559	1.675	0	-5.069	-4.873	0.044	17.83	0	0	-1.286	211	421.5
35	2/4/2012 16:00	1600	-5.811	72.7	2.963	289	16.8	-66.37	0.059	3.222	1.472	0	-5.037	-4.867	0.044	17.83	0	0	-1.285	211	421.5
35	2/4/2012 17:00	1700	-6.891	73.8	2.194	312	14.84	-46.01	0.014	3.929	1.744	0	-5.01	-4.86	0.044	17.83	0	0	-1.285	211	421.5
35	2/4/2012 18:00	1800	-9.36	80	1.619	349.3	11.33	-26.34	0.002	0.908	2.372	0	-4.992	-4.853	0.044	17.83	0	0	-1.29	211	421.5
35	2/4/2012 19:00	1900	-11.15	84.8	2.349	20.69	6.685	-29.38	0	0	3.082	0	-4.99	-4.844	0.044	17.83	0	0	-1.289	211	421.5
35	2/4/2012 20:00	2000	-13.93	84.4	2.512	25.28	9.66	-18.69	0	0.005	3.975	0	-5	-4.837	0.044	17.83	0	0	-1.286	211	421.5
35	2/4/2012 21:00	2100	-13.59	81.4	2.774	33.59	5.958	-20.56	0	0	5.287	0	-5.026	-4.834	0.044	17.83	0	0	-1.287	211	421.5
35	2/4/2012 22:00	2200	-12.73	74.7	1.815	42.01	15.49	-22.8	0	0	6.599	0	-5.076	-4.837	0.044	17.83	0	0	-1.295	211	421.5
35	2/4/2012 23:00	2300	-10.45	65.01	1.362	71.8	18.4	-37.87	0	0	7.15	0	-5.141	-4.85	0.044	17.83	0	0	-1.285	211	421.5
35	2/5/2012 0:00	2400	-9.2	62.68	1.892	102.6	19.68	-38.45	0	0	6.635	0	-5.203	-4.869	0.044	17.82	0	0	-1.286	211	421.5
36	2/5/2012 1:00	100	-8.44	56.23	2.635	109.6	15.06	-41.09	0	0	6.446	0	-5.249	-4.894	0.044	17.82	0	0	-1.285	211	421.5
36	2/5/2012 2:00	200	-9.58	64.27	1.317	108.9	29.64	-31.07	0	0	5.825	0	-5.288	-4.919	0.044	17.82	0	0	-1.284	211	421.5
36	2/5/2012 3:00	300	-8.43	66.79	3.451	114.8	12.2	-34.28	0	0	5.698	0	-5.309	-4.941	0.044	17.82	0	0	-1.288	211	421.5
36	2/5/2012 4:00	400	-8.57	67.5	3.239	129.7	14.59	-30.4	0	0	5.93	0	-5.332	-4.96	0.044	17.82	0	0	-1.287	210.9	421.4
36	2/5/2012 5:00	500	-8.53	75.7	4.701	119.2	15.11	-54.44	0	0	6.098	0	-5.359	-4.982	0.044	17.82	0	0	-1.289	210.9	421.4
36	2/5/2012 6:00	600	-8.8	79.1	4.735	111.8	13.38	-62.35	0	0	6.803	0	-5.392	-5.005	0.044	17.82	0	0	-1.289	210.9	421.4
36	2/5/2012 7:00	700	-8.84	77	4.725	104	13.78	-66.34	0	0	7.5	0	-5.44	-5.03	0.044	17.82	0	0	-1.289	210.9	421.4
36	2/5/2012 8:00	800	-9.16	78.1	4.37	105.6	16.26	-67.24	0	0	7.6	0	-5.491	-5.059	0.044	17.82	0	0	-1.289	210.9	421.4
36	2/5/2012 9:00	900	-9.24	77.5	4.533	106.1	15.41	-67.09	0	0	8.08	0	-5.535	-5.088	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 10:00	1000	-9.45	77.8	4.556	107.4	16.76	-67.08	0.002	0.585	8.21	0	-5.579	-5.116	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 11:00	1100	-8.36	67.23	5.394	109.4	16.55	-74.1	0.041	1.129	9.03	0	-5.62	-5.143	0.044	17.82	0	0	-1.291	210.9	421.4
36	2/5/2012 12:00	1200	-7.35	57.89	4.864	114.3	16.99	-78.9	0.11	1.052	8.55	0	-5.664	-5.169	0.044	17.82	0	0	-1.291	210.9	421.4
36	2/5/2012 13:00	1300	-7.71	61.66	6.084	121	15.88	-84.2	0.161	1	8.33	0	-5.693	-5.198	0.044	17.82	0	0	-1.292	210.9	421.4
36	2/5/2012 14:00	1400	-7.82	60.07	6.247	122.9	15.3	-84.7	0.165	0.972	8.63	0	-5.718	-5.223	0.044	17.82	0	0	-1.292	210.9	421.4
36	2/5/2012 15:00	1500	-7.45	52.71	5.53	115.1	15.21	-80.7	0.141	0.976	8.81	0	-5.741	-5.243	0.044	17.82	0	0	-1.292	210.9	421.4
36	2/5/2012 16:00	1600	-7.59	53.02	4.768	118.5	16.58	-77.2	0.104	1.014	8.49	0	-5.763	-5.262	0.044	17.82	0	0	-1.291	210.9	421.4
36	2/5/2012 17:00	1700	-8.27	56.35	5.027	121	16.74	-65.23	0.052	0.938	8.53	0	-5.779	-5.28	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 18:00	1800	-8.88	58.72	3.859	109.8	17.64	-63.19	0.008	0.861	8.46	0	-5.796	-5.297	0.044	17.82	0	0	-1.291	210.9	421.4
36	2/5/2012 19:00	1900	-8.45	54.03	5.144	104.7	16.4	-69.07	0	0	9.16	0	-5.813	-5.311	0.044	17.82	0	0	-1.291	210.9	421.4
36	2/5/2012 20:00	2000	-8.3	53.23	5.712	103.1	14.33	-68.9	0	0	10.22	0	-5.847	-5.326	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 21:00	2100	-7.44	46.71	5.272	96.5	17.07	-67.43	0	0	9.7	0	-5.893	-5.343	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 22:00	2200	-8.59	52.66	4.218	106.1	15.95	-64.69	0	0	8.73	0	-5.927	-5.366	0.044	17.82	0	0	-1.29	210.9	421.4
36	2/5/2012 23:00	2300	-8.57	51.21	4.177	108.3	16.86	-65.28	0	0	9.15	0	-5.944	-5.386	0.044	17.82	0	0	-1.292	210.9	421.4
36	2/6/2012 0:00	2400	-8.55	49.86	4.466	103.5	16.59	-65.99	0	0	9.22	0	-5.962	-5.403	0.044	17.82	0	0	-1.292	210.9	421.4
37	2/6/2012 1:00	100	-8.68	49.75	4.244	114	15.51	-62.35	0	0	9.22	0	-5.985	-5.418	0.044	17.81	0	0	-1.291	210.9	421.4
37	2/6/2012 2:00	200	-8.44	48.39	4.64	123.4	13.8	-59.55	0	0	8.93	0	-6.004	-5.435	0.044	17.82	0	0	-1.292	210.9	421.4
37	2/6/2012 3:00	300	-8.75	49.94	3.781	124	15.89	-59.12	0	0	8.57	0	-6.017	-5.452							



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
37	2/6/2012 12:00	1200	-7.35	66.45	4.576	121.8	15.73	1.233	0.043	0.774	5.073	0	-6.074	-5.552	0.044	17.81	0	0	-1.295	210.9	421.4
37	2/6/2012 13:00	1300	-7.16	64.39	4.744	121.5	12.82	-0.665	0.105	0.8	4.159	0	-6.029	-5.556	0.044	17.82	0	0	-1.294	210.9	421.4
37	2/6/2012 14:00	1400	-6.626	61.82	4.454	120.9	15.17	3.563	0.138	0.791	3.721	0	-5.977	-5.549	0.044	17.82	0	0	-1.295	210.9	421.4
37	2/6/2012 15:00	1500	-6.27	57.73	3.711	126.2	15.22	-53.66	0.131	0.93	3.162	0	-5.922	-5.536	0.044	17.82	0	0	-1.294	210.9	421.4
37	2/6/2012 16:00	1600	-7.12	57.83	2.97	133	18.27	-42.97	0.086	0.912	3.885	0	-5.87	-5.519	0.044	17.82	0	0	-1.296	210.9	421.4
37	2/6/2012 17:00	1700	-6.898	55.01	3.44	120.8	15.82	-50.82	0.058	0.966	4.076	0	-5.831	-5.499	0.044	17.82	0	0	-1.294	210.9	421.4
37	2/6/2012 18:00	1800	-6.998	60.69	3.705	108.8	14.89	-12.76	0.007	0.64	4.949	0	-5.806	-5.477	0.044	17.82	0	0	-1.296	210.9	421.4
37	2/6/2012 19:00	1900	-8.01	61.72	3.939	113.9	13.98	-6.917	0	0.041	4.784	0	-5.794	-5.461	0.044	17.82	0	0	-1.298	210.9	421.4
37	2/6/2012 20:00	2000	-8.26	72.3	3.702	119.5	13.66	-11.81	0	0.002	5.086	0	-5.785	-5.445	0.044	17.82	0	0	-1.296	210.9	421.4
37	2/6/2012 21:00	2100	-8.63	79.3	3.397	121.5	15.66	-29.9	0	0.002	4.371	0	-5.778	-5.434	0.044	17.82	0	0	-1.297	211	421.5
37	2/6/2012 22:00	2200	-8.39	75	2.87	107.6	16.03	-35.53	0	0.005	3.988	0	-5.755	-5.423	0.044	17.82	0	0	-1.296	211	421.5
37	2/6/2012 23:00	2300	-8.26	70.2	2.993	126.6	18.68	-12.89	0	0.035	3.87	0	-5.727	-5.411	0.044	17.82	0	0	-1.296	211	421.5
37	2/7/2012 0:00	2400	-8.53	70.3	4.189	131.5	15.04	-2.996	0	0.043	3.844	0	-5.706	-5.398	0.044	17.82	0	0	-1.296	210.9	421.4
38	2/7/2012 1:00	100	-8.13	73.2	3.985	115.5	15.64	-9.01	0	0.021	3.867	0	-5.689	-5.385	0.044	17.82	0	0	-1.296	211	421.5
38	2/7/2012 2:00	200	-8.65	73.9	3.178	128.5	13.59	-26.39	0	0	3.73	0	-5.675	-5.376	0.044	17.82	0	0	-1.295	210.9	421.4
38	2/7/2012 3:00	300	-9.32	76.9	2.542	136	14.15	-34.89	0	0.012	3.388	0	-5.66	-5.368	0.044	17.82	0	0	-1.296	211	421.5
38	2/7/2012 4:00	400	-8.73	76.1	2.094	147.3	16.65	-4.909	0	0.041	3.517	0	-5.64	-5.358	0.044	17.82	0	0	-1.295	211	421.5
38	2/7/2012 5:00	500	-8.99	76.8	2.199	151.6	13.52	-10.53	0	0.009	3.071	0	-5.625	-5.348	0.044	17.82	0	0	-1.296	211	421.5
38	2/7/2012 6:00	600	-9.56	77.5	1.99	142.3	13.81	-4.081	0	0.037	2.883	0	-5.605	-5.339	0.044	17.82	0	0	-1.295	210.9	421.4
38	2/7/2012 7:00	700	-8.17	78.6	1.768	142.4	17.82	-3.499	0	0.061	2.681	0	-5.583	-5.328	0.044	17.82	0	0	-1.296	210.9	421.4
38	2/7/2012 8:00	800	-8.92	78.8	1.643	147.3	15.3	-3.156	0	0.006	2.402	0	-5.561	-5.317	0.044	17.82	0	0	-1.296	210.9	421.4
38	2/7/2012 9:00	900	-9.59	80.1	0.54	207.2	35.19	-15.62	0	0	2.185	0	-5.538	-5.305	0.044	17.82	0	0	-1.297	211	421.5
38	2/7/2012 10:00	1000	-10.82	82	1.069	23.7	52.3	-23.3	0.003	0.53	2.131	0	-5.515	-5.295	0.044	17.82	0	0	-1.296	211	421.5
38	2/7/2012 11:00	1100	-8.85	78.9	2.271	123.2	13.05	-26.13	0.025	0.905	2.899	0	-5.493	-5.279	0.044	17.82	0	0	-1.297	211	421.5
38	2/7/2012 12:00	1200	-8.24	76.5	2.049	129.7	18.81	-6.555	0.06	0.783	3.117	0	-5.485	-5.265	0.044	17.82	0	0	-1.296	210.9	421.4
38	2/7/2012 13:00	1300	-8.14	74.6	2.516	144.1	14.73	-2.714	0.09	0.783	2.755	0	-5.476	-5.254	0.044	17.82	0	0	-1.297	210.9	421.4
38	2/7/2012 14:00	1400	-7.64	70.8	2.103	157.4	17.15	-9.55	0.144	0.8	2.123	0	-5.46	-5.243	0.044	17.82	0	0	-1.297	210.9	421.4
38	2/7/2012 15:00	1500	-7.7	71.4	1.957	152.8	20.44	-0.136	0.099	0.771	1.563	0	-5.432	-5.233	0.044	17.82	0	0	-1.295	210.9	421.4
38	2/7/2012 16:00	1600	-8.25	73.1	1.366	158.9	19.07	0.429	0.069	0.764	1.363	0	-5.4	-5.22	0.044	17.82	0	0	-1.295	210.9	421.4
38	2/7/2012 17:00	1700	-9.19	74.3	1.629	155	16.91	-21.11	0.038	0.8	1.252	0	-5.365	-5.2	0.044	17.83	0	0	-1.293	210.9	421.4
38	2/7/2012 18:00	1800	-7.92	73.2	2.937	132.7	14.81	-50.59	0.008	1.013	1.745	0	-5.334	-5.182	0.044	17.83	0	0	-1.296	210.9	421.4
38	2/7/2012 19:00	1900	-8.92	76.2	1.798	145.2	16.44	-50.09	0	0	3.062	0	-5.32	-5.162	0.044	17.83	0	0	-1.294	210.9	421.4
38	2/7/2012 20:00	2000	-11.02	80.8	1.814	144.8	14.38	-46.6	0	0	3.191	0	-5.328	-5.15	0.044	17.83	0	0	-1.295	211	421.5
38	2/7/2012 21:00	2100	-10.1	78.1	2.116	135.6	15.93	-47.19	0	0.032	3.725	0	-5.334	-5.14	0.044	17.83	0	0	-1.291	211	421.5
38	2/7/2012 22:00	2200	-9.21	75.4	3.681	126.5	12.65	-52.59	0	0.009	4.969	0	-5.354	-5.135	0.044	17.83	0	0	-1.294	210.9	421.4
38	2/7/2012 23:00	2300	-8.6	73.7	3.816	123.5	13.12	-34.9	0	0.026	6.192	0	-5.395	-5.136	0.044	17.82	0	0	-1.294	210.9	421.4
38	2/8/2012 0:00	2400	-7.76	71.2	4.23	127.9	15.38	-1.829	0	0.06	5.862	0	-5.447	-5.145	0.044	17.82	0	0	-1.294	210.9	421.4
39	2/8/2012 1:00	100	-6.836	70.2	4.578	129.6	13.12	0.91	0	0.047	4.666	0	-5.482	-5.16	0.044	17.82	0	0	-1.294	210.9	421.4
39	2/8/2012 2:00	200	-7.19	80.1	3.952	135.9	14.81	0.592	0	0.026	3.546	0	-5.494	-5.177	0.044	17.82	0	0	-1.295	211	421.5
39	2/8/2012 3:00	300	-7.2	83.1	3.726	136.9	15.05	-0.347	0	0.047	2.692	0	-5.481	-5.186	0.044	17.82	0	0	-1.294	211	421.5
39	2/8/2012 4:00	400	-6.876	82.5	4.75	133.4	14.06	-0.051	0	0.046	2.503	0	-5.456	-5.188	0.044	17.83	0	0	-1.295	211	421.5
39	2/8/2012 5:00	500	-6.601	83.1	4.763	129	13.46	-6.493	0	0.031	2.483	0	-5.429	-5.184	0.044	17.83	0	0	-1.296	211.1	421.6
39	2/8/2012 6:00	600	-6.155	81.2	4.607	127.2	14.18	-6.413	0	0.024	2.443	0	-5.406	-5.177	0.044	17.83	0	0	-1.296	211.1	421.6
39	2/8/2012 7:00	700	-5.859	82	4.619	135.8	15.88	-7.82	0	0.024	2.124	0	-5.383	-5.166	0.044	17.82	0	0	-1.296	211.1	421.6
39	2/8/2012 8:00	800	-4.45	71.2	5.616	128.2	15.65	-18.55	0	0.008	1.856	0	-5.355	-5.152	0.044	17.83	0	0	-1.297	211.1	421.6
39	2/8/2012 9:00	900	-5.196	68.31	4.795	132.9	15.81	-33.37	0	0	1.509	0	-5.326	-5.139	0.044	17.83	0	0	-1.295	211.1	421.6
39	2/8/2012 10:00	1000	-4.816	64.6	5.525	121	14.98	-45.03	0.003	0.569	2.339	0	-5.296	-5.124	0.044	17.83	0	0	-1.298	211.1	421.6
39	2/8/2012 11:00	1100	-3.737	58.47	5.372	119.4	14.23	-46.21	0.057	0.924	2.756	0	-5.281	-5.105	0.044	17.83	0	0	-1.299	211.1	421.6
39	2/8/2012 12:00	1200	-3.737	56.58	5.011	136.7	18.21	-49.78	0.131	0.922	2.066	0	-5.271	-5.091	0.044	17.83	0	0	-1.299	211.1	421.6
39	2/8/2012 13:00	1300	-3.156	54.08	4.119	144.3	16.57	-61.86	0.188	0.934	1.473	0	-5.245	-5.077	0.044	17.83	0	0	-1.301	211.1	421.6
39	2/8/2012 14:00	1400	-2.281	51.26	4.279	144.6	16.11	-66.22	0.235	0.9	0.744	0	-5.203	-5.059	0.044	17.83	0	0	-1.299	211.1	421.6
39	2/8/2012 15:00	1500	-1.111	48.53	4.061	139.6	17.65	-70.3	0.21	0.922	0.404	0	-5.151	-5.038	0.044	17.83	0	0	-1.299	211	421.5
39	2/8/2012 16:00	1600	-1.396	48.99	4.533	130.6	14.58	-70.5	0.159	0.973	0.154	0	-5.094	-5.013	0.044	17.83	0	0	-1.299	211	421.5
39	2/8/2012 17:00	1700	-1.995	50.73	4.818	118.9	14.71	-62.92	0.085	0.984	0.744	0	-5.042	-4.981	0.044	17.83	0	0	-1.297	211	421.5
39	2/8/2012 18:00	1800	-3.693	56.92	4.572	105.2	14.05	-60.45	0.007	1.147	1.965	0	-5.011	-4.953	0.044	17.83	0	0	-1.296	211.1	421.6
39	2/8/2012 19:00	1900	-3.637	56.69	4.696	105.6	16.03	-62.48	0	0.017	3.067	0	-5.006	-4.926	0.044	17.83	0	0	-1.297	211.1	421.6
39	2/8/2012 20:00	2000	-3.934	57.32	3.516	99.6	19	-59.29	0	0	3.054	0	-5.016	-4.905	0.044	17.84	0	0	-1.297		



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
40	2/9/2012 6:00	600	-6.708	59.56	4.423	130	14.09	-49.63	0	0.003	5.752	0	-5.197	-4.905	0.044	17.83	0	0	-1.298	211.1	421.6
40	2/9/2012 7:00	700	-6.524	59.23	4.91	127.3	13.52	-51.96	0	0	6.177	0	-5.227	-4.914	0.044	17.83	0	0	-1.298	211.1	421.6
40	2/9/2012 8:00	800	-6.118	58.86	4.771	126.9	14.41	-52.91	0	0	5.911	0	-5.259	-4.926	0.044	17.83	0	0	-1.297	211.1	421.6
40	2/9/2012 9:00	900	-6.514	59.99	3.702	137.9	15.48	-50.88	0	0	5.382	0	-5.283	-4.94	0.044	17.83	0	0	-1.298	211.1	421.6
40	2/9/2012 10:00	1000	-7.64	63.53	3.071	134.6	17.89	-48.5	0.005	0.745	4.621	0	-5.294	-4.955	0.044	17.83	0	0	-1.298	211.1	421.6
40	2/9/2012 11:00	1100	-6.762	60.69	3.535	125.3	14.01	-56.38	0.056	1.104	6.032	0	-5.293	-4.96	0.044	17.83	0	0	-1.3	211.1	421.6
40	2/9/2012 12:00	1200	-5.688	56.34	2.194	157.7	21.4	-61.56	0.128	0.995	4.428	0	-5.309	-4.969	0.044	17.83	0	0	-1.301	211.1	421.6
40	2/9/2012 13:00	1300	-5.143	54.25	3.485	139.5	16.92	-66.95	0.188	0.937	3.247	0	-5.289	-4.977	0.044	17.83	0	0	-1.3	211.1	421.6
40	2/9/2012 14:00	1400	-5.366	55.45	5.118	135.1	15.58	-69.24	0.215	0.901	3.264	0	-5.252	-4.977	0.044	17.83	0	0	-1.3	211	421.5
40	2/9/2012 15:00	1500	-4.518	53.23	4.334	132	16.21	-70.9	0.203	0.919	3.425	0	-5.224	-4.972	0.044	17.83	0	0	-1.301	211.1	421.6
40	2/9/2012 16:00	1600	-4.818	54.73	4.878	141.8	16.19	-71.4	0.156	0.968	3.096	0	-5.201	-4.964	0.044	17.83	0	0	-1.299	211	421.5
40	2/9/2012 17:00	1700	-3.789	54.8	5.076	125.2	17.48	-62.1	0.088	0.979	3.334	0	-5.175	-4.953	0.044	17.83	0	0	-1.3	211	421.5
40	2/9/2012 18:00	1800	-4.381	58.79	5.998	121.8	13.34	-55.8	0.007	1.085	3.357	0	-5.159	-4.94	0.044	17.83	0	0	-1.298	211	421.5
40	2/9/2012 19:00	1900	-4.411	61.63	5.585	113.5	17.94	-56.28	0	0.02	3.352	0	-5.151	-4.929	0.044	17.83	0	0	-1.299	211	421.5
40	2/9/2012 20:00	2000	-5.597	63.43	5.776	118.2	14.12	-54.31	0	0	4.169	0	-5.146	-4.92	0.044	17.83	0	0	-1.299	211	421.5
40	2/9/2012 21:00	2100	-5.766	63.25	7.16	120.8	13.26	-47.71	0	0	5.465	0	-5.161	-4.914	0.044	17.83	0	0	-1.298	211	421.5
40	2/9/2012 22:00	2200	-5.78	63.37	7.68	117.4	14.09	-33.92	0	0	5.179	0	-5.191	-4.911	0.044	17.84	0	0	-1.298	211	421.5
40	2/9/2012 23:00	2300	-6.003	63.06	6.587	121.3	13.68	-13.31	0	0.011	4.272	0	-5.208	-4.914	0.044	17.83	0	0	-1.299	211	421.5
40	2/10/2012 0:00	2400	-5.856	62.62	6.497	112.5	13.57	-12.1	0	0.005	3.744	0	-5.205	-4.917	0.044	17.84	0	0	-1.299	211	421.5
41	2/10/2012 1:00	100	-5.636	62.38	5.889	108.7	14.23	-16.89	0	0.002	3.526	0	-5.197	-4.917	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 2:00	200	-5.533	62.91	6.165	109.7	14.62	-15.86	0	0	3.371	0	-5.185	-4.916	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 3:00	300	-5.51	68.55	5.251	109.7	14.17	-9.54	0	0.006	3.223	0	-5.175	-4.913	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 4:00	400	-5.465	72.5	5.487	105.6	14.8	-26.63	0	0.005	2.797	0	-5.159	-4.91	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 5:00	500	-5.687	71.7	6.149	105.6	13.47	-45.47	0	0.002	3.06	0	-5.141	-4.904	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 6:00	600	-5.707	74	5.896	105.2	13.51	-34.66	0	0	3.849	0	-5.132	-4.897	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 7:00	700	-5.56	74.1	5.078	105.5	13.74	-64.41	0	0	3.633	0	-5.132	-4.891	0.044	17.83	0	0	-1.298	211	421.5
41	2/10/2012 8:00	800	-4.814	71.6	4.788	105.7	13.65	-63.48	0	0	3.934	0	-5.129	-4.885	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 9:00	900	-4.551	71.1	5.124	111.7	13.35	-63.63	0	0	3.67	0	-5.128	-4.879	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 10:00	1000	-5.025	71.9	4.285	113.7	13.3	-62.07	0.006	0.807	3.546	0	-5.122	-4.877	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 11:00	1100	-5.315	71.7	3.997	117.3	13.94	-60.47	0.02	1.055	3.587	0	-5.115	-4.873	0.044	17.83	0	0	-1.298	211	421.5
41	2/10/2012 12:00	1200	-4.636	66.38	3.644	112.3	15.6	-59.09	0.058	0.961	3.668	0	-5.11	-4.868	0.044	17.83	0	0	-1.299	211	421.5
41	2/10/2012 13:00	1300	-3.257	58.89	3.44	108.5	16.44	-48.47	0.185	0.862	3.103	0	-5.1	-4.862	0.044	17.83	0	0	-1.302	211	421.5
41	2/10/2012 14:00	1400	-2.28	53.98	3.652	114	16.34	-60.74	0.218	0.872	1.852	0	-5.073	-4.853	0.044	17.83	0	0	-1.303	211	421.5
41	2/10/2012 15:00	1500	-1.533	49.76	3.943	126	14.31	-75.3	0.207	0.898	1.092	0	-5.025	-4.842	0.044	17.83	0	0	-1.302	210.9	421.4
41	2/10/2012 16:00	1600	-1.95	51.88	3.475	129.7	14.21	-64.87	0.151	0.91	1.187	0	-4.972	-4.826	0.044	17.84	0	0	-1.302	211	421.5
41	2/10/2012 17:00	1700	-2.781	53.99	2.862	117.9	15.66	-55.69	0.068	0.909	1.498	0	-4.928	-4.805	0.044	17.84	0	0	-1.301	211	421.5
41	2/10/2012 18:00	1800	-4.038	58.52	2.7	113.8	14.75	-56.57	0.01	1.197	2.213	0	-4.897	-4.783	0.044	17.84	0	0	-1.299	211	421.5
41	2/10/2012 19:00	1900	-4.599	60.66	2.666	120.7	15.58	-48.82	0	0.038	3.103	0	-4.886	-4.762	0.044	17.84	0	0	-1.299	211	421.5
41	2/10/2012 20:00	2000	-5.023	61.05	2.175	99.9	15.25	-54.19	0	0	3.401	0	-4.886	-4.745	0.044	17.84	0	0	-1.299	211	421.5
41	2/10/2012 21:00	2100	-5.537	64.1	1.917	86.9	15.82	-54.06	0	0	3.804	0	-4.893	-4.733	0.044	17.84	0	0	-1.301	211	421.5
41	2/10/2012 22:00	2200	-5.161	61.97	2.06	87.3	16.88	-51.38	0	0	4.145	0	-4.903	-4.724	0.044	17.84	0	0	-1.299	211	421.5
41	2/10/2012 23:00	2300	-5.08	62.39	2.54	95.1	15.81	-44.75	0	0	4.379	0	-4.916	-4.719	0.044	17.84	0	0	-1.299	211	421.5
41	2/11/2012 0:00	2400	-5.293	63.59	2.674	94.7	14.65	-48.72	0	0	4.38	0	-4.93	-4.717	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 1:00	100	-5.369	63.77	2.968	103.4	15.87	-43.22	0	0	4.492	0	-4.944	-4.717	0.044	17.84	0	0	-1.299	211	421.5
42	2/11/2012 2:00	200	-5.576	64.42	2.973	105.4	13.51	-46.15	0	0	4.281	0	-4.955	-4.718	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 3:00	300	-5.387	62.66	3.49	116.6	15.86	-42.16	0	0	4.614	0	-4.962	-4.72	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 4:00	400	-5.206	60.4	3.788	112.3	15.47	-40.19	0	0	4.637	0	-4.972	-4.721	0.044	17.84	0	0	-1.301	211	421.5
42	2/11/2012 5:00	500	-5.124	57.92	3.78	115	17.25	-31.84	0	0	4.686	0	-4.984	-4.723	0.044	17.84	0	0	-1.302	211	421.5
42	2/11/2012 6:00	600	-5.179	55.93	3.175	112	16.59	-29.28	0	0.021	4.154	0	-4.992	-4.726	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 7:00	700	-5.039	55.43	3.903	114.4	14.89	-15.68	0	0.02	4.162	0	-4.992	-4.728	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 8:00	800	-4.89	54.63	3.455	110.2	16.59	-16.83	0	0	3.854	0	-4.99	-4.73	0.044	17.84	0	0	-1.3	211	421.5
42	2/11/2012 9:00	900	-4.588	53.56	3.191	111.2	15.84	-15.8	0	0.011	3.479	0	-4.982	-4.729	0.044	17.84	0	0	-1.301	211	421.5
42	2/11/2012 10:00	1000	-4.339	51.15	3.95	114.4	14.03	-44.86	0.006	0.734	3.642	0	-4.971	-4.728	0.044	17.84	0	0	-1.302	211	421.5
42	2/11/2012 11:00	1100	-3.931	48.98	3.325	110.7	14.71	-29.43	0.045	0.83	3.952	0	-4.965	-4.724	0.044	17.84	0	0	-1.302	211	421.5
42	2/11/2012 12:00	1200	-3.341	45.81	3.802	109.3	14.51	-24.48	0.078	0.799	3.422	0	-4.961	-4.719	0.044	17.84	0	0	-1.303	211	421.5
42	2/11/2012 13:00	1300	-2.814	43	3.417	107.8	14.51	-33.29	0.103	0.824	2.838	0	-4.944	-4.714	0.044	17.84	0	0	-1.302	210.9	421.4
42	2/11/2012 14:00	1400	-2.628	42.61	3.494	109.5	13.83	-20.06	0.114	0.769	2.491	0	-4.919	-4.706	0.044	17.84	0	0	-1.302	211	421.5
42	2/11/2012 15:00	1500	-2.204	41.64	3.4																



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
42	2/12/2012 0:00	2400	-3.687	48.01	4.472	107.9	14.76	-23.52	0	0.003	4.54	0	-4.841	-4.606	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 1:00	100	-4.115	49.93	4.357	105.3	13.77	-35.07	0	0	3.856	0	-4.846	-4.605	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 2:00	200	-4.441	51.08	4.886	110	13.33	-35.97	0	0	4.585	0	-4.848	-4.606	0.044	17.84	0	0	-1.301	210.9	421.4
43	2/12/2012 3:00	300	-4.771	55.81	4.065	108.9	13.88	-45.81	0	0	5.047	0	-4.862	-4.607	0.044	17.84	0	0	-1.3	211	421.5
43	2/12/2012 4:00	400	-4.773	64.54	3.82	108	14.43	-56.4	0	0	4.727	0	-4.877	-4.609	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 5:00	500	-4.365	69.7	5.154	107.1	13.43	-54.86	0	0	4.441	0	-4.884	-4.611	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 6:00	600	-4.674	72.6	4.023	103.6	13.9	-62.17	0	0	3.596	0	-4.881	-4.613	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 7:00	700	-4.353	70.6	3.519	107.8	18.41	-51.04	0	0	3.694	0	-4.871	-4.613	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 8:00	800	-4.09	70.3	3.351	102.4	16.17	-30.58	0	0.002	3.109	0	-4.86	-4.611	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 9:00	900	-4.195	69.07	3.173	100.5	13.59	-57.28	0	0	2.621	0	-4.839	-4.607	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 10:00	1000	-4.246	66.87	2.046	97.3	17.45	-38.51	0.015	0.769	3.231	0	-4.819	-4.602	0.044	17.84	0	0	-1.302	211	421.5
43	2/12/2012 11:00	1100	-3.135	60.64	1.313	142.8	50.49	-15.67	0.054	0.819	2.487	0	-4.803	-4.591	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 12:00	1200	-3.009	56.24	1.594	229	36.41	-2.526	0.1	0.794	1.357	0	-4.774	-4.582	0.044	17.84	0	0	-1.303	211	421.5
43	2/12/2012 13:00	1300	-3.574	54.08	2.56	260.6	25.54	-1.755	0.079	0.782	0.627	0	-4.73	-4.571	0.044	17.84	0	0	-1.301	210.9	421.4
43	2/12/2012 14:00	1400	-3.781	54.53	3.576	267.4	22.69	0.152	0.06	0.783	0.991	0	-4.682	-4.555	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 15:00	1500	-4.545	65.78	3.833	280.4	20.55	3.842	0.068	0.783	1.434	0	-4.651	-4.535	0.044	17.84	0	0	-1.301	211	421.5
43	2/12/2012 16:00	1600	-5.702	83.6	3.775	301.1	13.82	6.023	0.08	0.786	1.845	0	-4.633	-4.518	0.044	17.84	0	0	-1.301	211.3	421.8
43	2/12/2012 17:00	1700	-6.022	86.8	3.408	296.6	14.02	-2.467	0.063	0.803	1.809	0	-4.62	-4.504	0.044	17.84	0	0	-1.3	211.4	421.9
43	2/12/2012 18:00	1800	-6.207	84.2	3.454	304.7	13.3	-17.23	0.014	0.907	1.493	0	-4.605	-4.491	0.044	17.84	0	0	-1.3	211.4	421.9
43	2/12/2012 19:00	1900	-6.229	80.5	3.358	294	17.61	-27.41	0	0.05	1.634	0	-4.585	-4.477	0.044	17.84	0	0	-1.3	211.4	421.9
43	2/12/2012 20:00	2000	-6.261	79.8	3.675	284.4	18.37	-35.24	0	0	1.847	0	-4.569	-4.463	0.044	17.84	0	0	-1.301	211.4	421.9
43	2/12/2012 21:00	2100	-6.47	81.5	3.993	299.8	15.01	-45.06	0	0	2.431	0	-4.559	-4.449	0.044	17.84	0	0	-1.301	211.4	421.9
43	2/12/2012 22:00	2200	-6.626	80	4.342	308.9	12.18	-51.83	0	0	2.924	0	-4.56	-4.438	0.044	17.84	0	0	-1.299	211.4	421.9
43	2/12/2012 23:00	2300	-6.459	74.2	4.153	306.4	12.81	-55.45	0	0	3.547	0	-4.571	-4.431	0.044	17.84	0	0	-1.3	211.4	421.9
43	2/13/2012 0:00	2400	-6.625	70.8	4.239	305.1	11.13	-63.99	0	0	3.957	0	-4.59	-4.429	0.044	17.84	0	0	-1.3	211.4	421.9
44	2/13/2012 1:00	100	-7.01	69.12	3.913	302.6	11.42	-65.44	0	0	4.523	0	-4.617	-4.431	0.044	17.84	0	0	-1.301	211.4	421.9
44	2/13/2012 2:00	200	-7.29	67.65	4.125	317.4	10.29	-66.91	0	0	4.879	0	-4.648	-4.437	0.044	17.84	0	0	-1.301	211.4	421.9
44	2/13/2012 3:00	300	-7.34	66.57	4.389	321.9	9.93	-68.28	0	0	5.552	0	-4.683	-4.447	0.044	17.84	0	0	-1.302	211.4	421.9
44	2/13/2012 4:00	400	-7.56	67.01	3.297	309	12.46	-64.65	0	0	5.722	0	-4.726	-4.461	0.044	17.84	0	0	-1.3	211.4	421.9
44	2/13/2012 5:00	500	-7.49	66.54	3.679	316.2	11.64	-66.05	0	0	5.735	0	-4.767	-4.478	0.044	17.84	0	0	-1.3	211.4	421.9
44	2/13/2012 6:00	600	-7.82	67.07	3.024	321.5	14.66	-64.7	0	0	5.756	0	-4.802	-4.497	0.044	17.84	0	0	-1.3	211.4	421.9
44	2/13/2012 7:00	700	-7.91	67.09	2.556	345.4	11.56	-63.8	0	0	5.595	0	-4.836	-4.518	0.044	17.84	0	0	-1.302	211.4	421.9
44	2/13/2012 8:00	800	-7.76	66.23	2.163	333.8	14.89	-45.92	0	0	5.328	0	-4.862	-4.535	0.044	17.84	0	0	-1.301	211.4	421.9
44	2/13/2012 9:00	900	-7.43	63.79	1.646	336.5	19.85	-28.78	0	0.018	4.908	0	-4.877	-4.551	0.044	17.84	0	0	-1.303	211.4	421.9
44	2/13/2012 10:00	1000	-8	64.08	1.356	3.673	18.75	-19.76	0.007	0.946	4.387	0	-4.887	-4.564	0.044	17.84	0	0	-1.301	211.4	421.9
44	2/13/2012 11:00	1100	-7.32	61.34	0.767	102.5	42.19	-19.58	0.054	0.847	3.847	0	-4.888	-4.574	0.044	17.83	0	0	-1.303	211.4	421.9
44	2/13/2012 12:00	1200	-4.65	51.29	1.56	121.8	16.44	-48.57	0.127	0.937	3.226	0	-4.877	-4.577	0.044	17.84	0	0	-1.307	211.3	421.8
44	2/13/2012 13:00	1300	-2.696	45.61	0.88	183.6	50.56	-32.49	0.194	0.867	2.585	0	-4.858	-4.576	0.044	17.83	0	0	-1.305	211.3	421.8
44	2/13/2012 14:00	1400	-1.933	44.93	0.734	213.5	56.39	-48.11	0.244	0.869	1.853	0	-4.826	-4.571	0.044	17.83	0	0	-1.307	211.3	421.8
44	2/13/2012 15:00	1500	-1.417	44.14	1.079	167.8	36.1	-72.8	0.219	0.911	1.277	0	-4.789	-4.563	0.044	17.84	0	0	-1.306	211.3	421.8
44	2/13/2012 16:00	1600	-1.804	46.07	1.943	147.1	18.52	-74.4	0.175	0.955	1.042	0	-4.752	-4.554	0.044	17.84	0	0	-1.306	211.3	421.8
44	2/13/2012 17:00	1700	-3.206	50.81	1.916	130.1	14.28	-60.74	0.072	1.027	1.042	0	-4.713	-4.539	0.044	17.84	0	0	-1.302	211.3	421.8
44	2/13/2012 18:00	1800	-6.217	61.2	1.002	105.9	26.45	-46.31	0.01	1.255	1.265	0	-4.683	-4.526	0.044	17.84	0	0	-1.3	211.4	421.9
44	2/13/2012 19:00	1900	-6.735	62.71	1.063	77.5	27.62	-40.85	0	0.046	1.755	0	-4.661	-4.511	0.044	17.84	0	0	-1.303	211.4	421.9
44	2/13/2012 20:00	2000	-9.88	72	1.098	8.92	36.85	-35.57	0	0.005	2.427	0	-4.653	-4.496	0.044	17.84	0	0	-1.298	211.4	421.9
44	2/13/2012 21:00	2100	-10.15	74.9	0.959	23.58	35.25	-23.81	0	0.053	3.217	0	-4.661	-4.488	0.044	17.84	0	0	-1.302	211.4	421.9
44	2/13/2012 22:00	2200	-7.3	67.92	0.637	88	14.92	-15.54	0	0.069	3.548	0	-4.679	-4.483	0.044	17.84	0	0	-1.304	211.4	421.9
44	2/13/2012 23:00	2300	-6.183	64.39	1.437	108	18.94	-18.07	0	0.024	3.543	0	-4.703	-4.484	0.044	17.84	0	0	-1.299	211.4	421.9
44	2/14/2012 0:00	2400	-6.135	64.1	1.556	127.3	25.57	-21.91	0	0	3.243	0	-4.722	-4.489	0.044	17.84	0	0	-1.301	211.3	421.8
45	2/14/2012 1:00	100	-6.233	65.02	2.246	120.3	13.32	-29.82	0	0	3.049	0	-4.735	-4.496	0.044	17.84	0	0	-1.298	211.3	421.8
45	2/14/2012 2:00	200	-5.232	59.98	2.484	127.4	15.5	-33.55	0	0.002	2.916	0	-4.742	-4.504	0.044	17.84	0	0	-1.3	211.3	421.8
45	2/14/2012 3:00	300	-5.491	60.68	2.48	136.3	13.86	-35.28	0	0	2.68	0	-4.746	-4.51	0.044	17.84	0	0	-1.3	211.3	421.8
45	2/14/2012 4:00	400	-5.867	61.68	2.126	134.9	14.81	-41.43	0	0	2.502	0	-4.746	-4.516	0.044	17.84	0	0	-1.301	211.3	421.8
45	2/14/2012 5:00	500	-6	59.47	1.966	136.5	16.68	-46.38	0	0	2.434	0	-4.745	-4.521	0.044	17.84	0	0	-1.301	211.3	421.8
45	2/14/2012 6:00	600	-6.421	57.85	1.385	142.5	19.63	-35.24	0	0	2.503	0	-4.743	-4.525	0.044	17.84	0	0	-1.3	211.3	421.8
45	2/14/2012 7:00	700	-6.387	61.8	1.925	149.2	15.7	-23.02	0	0.014	2.648	0	-4.743	-4.528	0.044	17.84	0	0	-1.301	211.3	421.8
45	2/14/2012 8:00	800	-5.847	61.13	2.287	127.1	15.3	-41.25	0	0	2.712	0	-4.748	-4.532	0.044	17.84	0	0	-1.3	211.3	421.8
45	2/14/2012 9																				



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
45	2/14/2012 18:00	1800	-4.663	73.6	2.469	292	18.63	-7.65	0.011	0.804	0.672	0	-4.611	-4.506	0.044	17.84	0	0	-1.3	211.3	421.8
45	2/14/2012 19:00	1900	-5.06	80.2	2.429	292.9	18.78	-5.099	0	0.095	0.834	0	-4.587	-4.488	0.044	17.84	0	0	-1.299	211.8	422.3
45	2/14/2012 20:00	2000	-5.555	92.7	3.321	287.5	18.29	-2.644	0	0.04	0.839	0	-4.568	-4.471	0.044	17.84	0	0	-1.269	213.1	423.6
45	2/14/2012 21:00	2100	-5.504	93.8	3.679	280.8	20.16	-7.43	0	0.005	0.828	0	-4.549	-4.455	0.044	17.84	0	0	-1.273	213.2	423.7
45	2/14/2012 22:00	2200	-5.546	91.1	4.009	282.7	18.02	-13.86	0	0.005	0.634	0	-4.529	-4.44	0.044	17.84	0	0	-1.281	213.2	423.7
45	2/14/2012 23:00	2300	-5.778	82.9	4.324	286.6	16.01	-26.26	0	0	0.652	0	-4.509	-4.424	0.044	17.84	0	0	-1.278	213.2	423.7
45	2/15/2012 0:00	2400	-6.153	78.4	4.58	300.6	12.79	-43.25	0	0	0.796	0	-4.491	-4.411	0.044	17.84	0	0	-1.275	213.2	423.7
46	2/15/2012 1:00	100	-6.612	76.4	4.599	315.8	12.39	-65.87	0	0	0.959	0	-4.477	-4.396	0.044	17.84	0	0	-1.284	213.2	423.7
46	2/15/2012 2:00	200	-8.11	79.2	3.097	326.7	11.52	-62.35	0	0	1.398	0	-4.468	-4.383	0.044	17.84	0	0	-1.284	213.2	423.7
46	2/15/2012 3:00	300	-9.18	81.2	2.264	325.1	14.4	-57.53	0	0	1.779	0	-4.466	-4.371	0.044	17.84	0	0	-1.285	213.2	423.7
46	2/15/2012 4:00	400	-8.57	77.8	2.178	334.8	11.64	-59.54	0	0	2.062	0	-4.469	-4.361	0.044	17.84	0	0	-1.284	213.2	423.7
46	2/15/2012 5:00	500	-8.72	76.9	1.755	348.9	13.7	-54.52	0	0	2.363	0	-4.478	-4.356	0.044	17.84	0	0	-1.286	213.2	423.7
46	2/15/2012 6:00	600	-8.72	74.8	2.067	359.3	12.46	-57.7	0	0	2.601	0	-4.489	-4.352	0.044	17.84	0	0	-1.288	213.2	423.7
46	2/15/2012 7:00	700	-10.49	76.1	2.216	355.5	10.8	-56.55	0	0	2.819	0	-4.506	-4.354	0.044	17.84	0	0	-1.293	213.2	423.7
46	2/15/2012 8:00	800	-13.03	80	2.451	20.03	4.15	-45.21	0	0.003	3.04	0	-4.525	-4.356	0.044	17.84	0	0	-1.292	213.2	423.7
46	2/15/2012 9:00	900	-12.66	78.6	1.913	44.89	16.74	-37.42	0	0.195	3.276	0	-4.546	-4.36	0.044	17.84	0	0	-1.285	213.2	423.7
46	2/15/2012 10:00	1000	-7.85	60.61	2.008	99.8	16.68	-52.58	0.016	1.416	3.445	0	-4.564	-4.364	0.044	17.84	0	0	-1.289	213.2	423.7
46	2/15/2012 11:00	1100	-6.042	56.88	3.151	122.8	14.71	-65.58	0.09	1.114	3.472	0	-4.583	-4.372	0.044	17.84	0	0	-1.289	213.1	423.6
46	2/15/2012 12:00	1200	-4.916	54.16	4.263	126.4	15.44	-79.5	0.169	1.02	3.571	0	-4.603	-4.383	0.044	17.84	0	0	-1.289	213.1	423.6
46	2/15/2012 13:00	1300	-4.766	55.13	4.391	123.2	13.15	-81.4	0.233	0.957	3.701	0	-4.626	-4.398	0.044	17.84	0	0	-1.291	213.1	423.6
46	2/15/2012 14:00	1400	-4.065	49.02	4.747	117	15.32	-79.4	0.255	0.942	3.238	0	-4.649	-4.414	0.044	17.84	0	0	-1.289	213.1	423.6
46	2/15/2012 15:00	1500	-4.577	50.2	5.163	115.3	14.35	-64.44	0.252	0.919	2.93	0	-4.661	-4.431	0.044	17.83	0	0	-1.289	213.1	423.6
46	2/15/2012 16:00	1600	-5.086	50.21	5.683	118.2	15.43	-68.7	0.144	0.965	2.971	0	-4.666	-4.445	0.044	17.84	0	0	-1.288	213	423.5
46	2/15/2012 17:00	1700	-5.714	54.52	5.253	117.9	14.22	-56.71	0.106	0.987	3.412	0	-4.675	-4.457	0.044	17.84	0	0	-1.288	213.1	423.6
46	2/15/2012 18:00	1800	-6.795	57.85	4.608	109.1	12.41	-54.74	0.02	1.201	3.753	0	-4.691	-4.467	0.044	17.84	0	0	-1.287	213.1	423.6
46	2/15/2012 19:00	1900	-7.11	56.74	4.453	107	12.92	-48.56	0	0.104	3.855	0	-4.712	-4.478	0.044	17.83	0	0	-1.287	213.1	423.6
46	2/15/2012 20:00	2000	-7.05	52.84	4.322	114.7	13.27	-47.42	0	0	4.322	0	-4.729	-4.488	0.044	17.83	0	0	-1.287	213.1	423.6
46	2/15/2012 21:00	2100	-7.12	51.78	3.85	111.7	13.3	-34.86	0	0	4.345	0	-4.752	-4.5	0.044	17.83	0	0	-1.288	213	423.5
46	2/15/2012 22:00	2200	-6.452	52.06	4.023	111	14.04	-8.43	0	0.017	4.261	0	-4.773	-4.514	0.044	17.83	0	0	-1.288	213	423.5
46	2/15/2012 23:00	2300	-5.905	56.66	3.857	113.7	14.69	-3.417	0	0.075	3.823	0	-4.789	-4.529	0.044	17.83	0	0	-1.292	213.1	423.6
46	2/16/2012 0:00	2400	-6.491	74.6	3.764	110.8	15.05	-5.066	0	0.049	3.242	0	-4.793	-4.54	0.044	17.83	0	0	-1.297	213.2	423.7
47	2/16/2012 1:00	100	-5.896	64.48	3.998	104.9	14.38	-5.02	0	0.023	2.784	0	-4.782	-4.545	0.044	17.83	0	0	-1.296	213.2	423.7
47	2/16/2012 2:00	200	-5.954	65.08	3.451	102.3	15.76	-7.34	0	0.003	2.41	0	-4.766	-4.545	0.044	17.83	0	0	-1.297	213.2	423.7
47	2/16/2012 3:00	300	-6.154	69.22	3.577	102.6	13.48	-5.24	0	0.002	2.278	0	-4.744	-4.541	0.044	17.84	0	0	-1.297	213.2	423.7
47	2/16/2012 4:00	400	-6.452	76	3.128	107.9	13.68	-7.78	0	0.008	2.084	0	-4.721	-4.534	0.044	17.83	0	0	-1.297	213.2	423.7
47	2/16/2012 5:00	500	-6.236	75.3	2.539	103.3	14.8	-10.38	0	0	1.905	0	-4.698	-4.524	0.044	17.83	0	0	-1.297	213.2	423.7
47	2/16/2012 6:00	600	-5.972	77.2	2.417	99.2	14.35	-8.09	0	0.037	1.722	0	-4.673	-4.513	0.044	17.84	0	0	-1.299	213.3	423.8
47	2/16/2012 7:00	700	-6.054	78.3	1.884	105.7	13.55	-18.39	0	0.002	1.552	0	-4.65	-4.5	0.044	17.84	0	0	-1.299	213.3	423.8
47	2/16/2012 8:00	800	-5.934	76.9	1.402	111.8	12.89	-7.38	0	0.003	1.435	0	-4.624	-4.487	0.044	17.84	0	0	-1.297	213.3	423.8
47	2/16/2012 9:00	900	-6.219	82.5	0.256	81	12.57	-4.639	0	0.018	1.252	0	-4.599	-4.472	0.044	17.84	0	0	-1.297	213.6	424.1
47	2/16/2012 10:00	1000	-6.749	90.3	0.839	328.9	43.4	-4.643	0.01	0.877	1.17	0	-4.575	-4.457	0.044	17.84	0	0	-1.296	213.7	424.2
47	2/16/2012 11:00	1100	-5.791	85.8	2.858	322	13.11	-4.171	0.072	1.056	1.043	0	-4.549	-4.44	0.044	17.84	0	0	-1.288	213.7	424.2
47	2/16/2012 12:00	1200	-4.711	80.9	4.07	307.3	14.58	-9.43	0.263	0.955	0.865	0	-4.519	-4.42	0.044	17.84	0	0	-1.29	213.7	424.2
47	2/16/2012 13:00	1300	-4.319	78.2	5.021	305.9	13.51	-12.55	0.308	0.884	0.207	0	-4.485	-4.399	0.044	17.84	0	0	-1.283	213.6	424.1
47	2/16/2012 14:00	1400	-4.691	79.6	3.767	289.5	17.35	-5.174	0.167	0.835	-0.644	0	-4.442	-4.38	0.044	17.84	0	0	-1.285	213.7	424.2
47	2/16/2012 15:00	1500	-4.239	79.4	3.194	293.5	17.48	-15.26	0.19	0.859	-0.696	0	-4.388	-4.353	0.044	17.84	0	0	-1.286	213.7	424.2
47	2/16/2012 16:00	1600	-3.567	73.4	3.501	304.7	14.82	-13.31	0.202	0.906	-0.625	0	-4.337	-4.325	0.044	17.84	0	0	-1.286	213.7	424.2
47	2/16/2012 17:00	1700	-3.637	67.43	2.873	291.3	16.52	-64.61	0.076	1.05	-0.492	0	-4.293	-4.295	0.044	17.85	0	0	-1.288	213.7	424.2
47	2/16/2012 18:00	1800	-4.485	69.41	1.829	312.3	14.52	-56.35	0.028	1.101	-0.215	0	-4.257	-4.268	0.044	17.85	0	0	-1.287	213.7	424.2
47	2/16/2012 19:00	1900	-6.576	74.5	1.582	323.7	17.88	-50.9	0	0.276	0.255	0	-4.233	-4.245	0.044	17.85	0	0	-1.295	213.7	424.2
47	2/16/2012 20:00	2000	-10.53	82.9	1.953	19.99	25.21	-44.13	0	0.131	0.687	0	-4.218	-4.222	0.044	17.85	0	0	-1.29	213.7	424.2
47	2/16/2012 21:00	2100	-9.15	76.1	1.741	42.06	17.84	-38.88	0	0.044	1.283	0	-4.211	-4.2	0.044	17.85	0	0	-1.291	213.7	424.2
47	2/16/2012 22:00	2200	-8.46	68.9	1.931	24.39	17.5	-29.41	0	0.046	1.983	0	-4.217	-4.183	0.044	17.85	0	0	-1.291	213.7	424.2
47	2/16/2012 23:00	2300	-7.46	57.35	1.377	12.09	21.97	-30.95	0	0.067	2.443	0	-4.237	-4.174	0.044	17.85	0	0	-1.29	213.7	424.2
47	2/17/2012 0:00	2400	-5.678	44.17	1.752	350.6	21.54	-39.66	0	0.084	2.505	0	-4.26	-4.169	0.044	17.84	0	0	-1.287	213.7	424.2
48	2/17/2012 1:00	100	-6.404	46.77	1.891	351.6	10.71	-36.34	0	0.003	2.591	0	-4.281	-4.17	0.044	17.85	0	0	-1.292	213.7	424.2
48	2/17/2012 2:00	200	-8.66	53.51	1.755	7.83	22.41	-37.33	0	0.017	2.713	0	-4.303	-4.175	0.044	17.84					



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
48	2/17/2012 12:00	1200	-4.322	44.37	0.661	250.6	37.74	-60.75	0.186	0.965	3.334	0	-4.574	-4.299	0.044	17.84	0	0	-1.292	213.6	424.1
48	2/17/2012 13:00	1300	-2.836	44.47	0.862	192.7	16.36	-65.43	0.239	0.919	2.701	0	-4.574	-4.309	0.044	17.84	0	0	-1.296	213.6	424.1
48	2/17/2012 14:00	1400	-1.288	39.96	0.458	210.7	32.99	-51.34	0.244	0.891	2.043	0	-4.56	-4.312	0.044	17.84	0	0	-1.301	213.6	424.1
48	2/17/2012 15:00	1500	-0.807	38.28	0.241	209.5	11.17	-45.71	0.2	0.881	1.512	0	-4.54	-4.313	0.044	17.84	0	0	-1.298	213.6	424.1
48	2/17/2012 16:00	1600	-3.938	48.3	0.149	330.3	16.82	-29.02	0.134	0.871	1.251	0	-4.52	-4.317	0.044	17.84	0	0	-1.299	213.6	424.1
48	2/17/2012 17:00	1700	-3.084	48.69	0.905	184.2	26.59	-26.63	0.145	0.869	1.251	0	-4.495	-4.31	0.044	17.84	0	0	-1.289	213.6	424.1
48	2/17/2012 18:00	1800	-5.427	57.08	1.468	109.5	13.19	-27.03	0.026	0.91	1.251	0	-4.475	-4.304	0.044	17.84	0	0	-1.287	213.6	424.1
48	2/17/2012 19:00	1900	-6.632	61.92	1.298	96.1	13.13	-29.21	0.001	0.272	1.348	0	-4.461	-4.298	0.044	17.84	0	0	-1.288	213.7	424.2
48	2/17/2012 20:00	2000	-6.947	65.19	1.374	110.7	13.89	-30.61	0	0	1.472	0	-4.448	-4.291	0.044	17.84	0	0	-1.289	213.7	424.2
48	2/17/2012 21:00	2100	-6.759	66.96	1.009	91.5	21.28	-15.16	0	0.047	1.668	0	-4.437	-4.282	0.044	17.84	0	0	-1.288	213.7	424.2
48	2/17/2012 22:00	2200	-7.52	70.5	0.924	36.03	44.39	-8.97	0	0.026	1.805	0	-4.434	-4.278	0.044	17.84	0	0	-1.287	213.7	424.2
48	2/17/2012 23:00	2300	-7.68	73.1	0.807	29.43	27.1	-4.475	0	0.061	1.877	0	-4.432	-4.274	0.044	17.84	0	0	-1.289	213.7	424.2
48	2/18/2012 0:00	2400	-8.06	76.5	0.682	15.1	28.4	-4	0	0.055	1.878	0	-4.433	-4.271	0.044	17.84	0	0	-1.289	213.7	424.2
49	2/18/2012 1:00	100	-7.95	76.1	0.674	13.82	42.64	-4.747	0	0.064	1.878	0	-4.432	-4.269	0.044	17.84	0	0	-1.288	213.7	424.2
49	2/18/2012 2:00	200	-8.11	78.7	0.74	9.78	24.5	-5.534	0	0.06	1.878	0	-4.431	-4.267	0.044	17.84	0	0	-1.288	213.7	424.2
49	2/18/2012 3:00	300	-8.37	79	0.295	29.27	50.37	-5.871	0	0.046	1.784	0	-4.427	-4.264	0.044	17.84	0	0	-1.287	213.7	424.2
49	2/18/2012 4:00	400	-8.4	79.3	0.353	96.3	50.25	-6.722	0	0.049	1.67	0	-4.422	-4.262	0.044	17.84	0	0	-1.286	213.7	424.2
49	2/18/2012 5:00	500	-8.27	78.4	0.447	305.7	71	-7.31	0	0.049	1.669	0	-4.416	-4.259	0.044	17.84	0	0	-1.288	213.7	424.2
49	2/18/2012 6:00	600	-8.54	79.1	0.195	67.41	30.73	-6.066	0	0.017	1.669	0	-4.411	-4.255	0.044	17.85	0	0	-1.29	213.7	424.2
49	2/18/2012 7:00	700	-9.13	82.1	0.629	10.13	21.37	-6.524	0	0.021	1.67	0	-4.406	-4.252	0.044	17.84	0	0	-1.289	213.7	424.2
49	2/18/2012 8:00	800	-9.41	83	0.569	356.4	23.89	-8.07	0	0.014	1.671	0	-4.401	-4.248	0.044	17.84	0	0	-1.289	213.7	424.2
49	2/18/2012 9:00	900	-9.49	82	0.578	8.84	28.2	-8.33	0	0.105	1.713	0	-4.397	-4.244	0.044	17.84	0	0	-1.288	213.7	424.2
49	2/18/2012 10:00	1000	-9.17	81	0.492	211.7	40.75	-6.66	0.007	0.98	1.871	0	-4.393	-4.24	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 11:00	1100	-8.36	78.4	1.216	142.9	22.16	-3.745	0.037	0.814	1.846	0	-4.388	-4.236	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 12:00	1200	-7.89	77	1.86	146.9	18.45	-0.622	0.086	0.806	1.668	0	-4.383	-4.232	0.044	17.84	0	0	-1.289	213.7	424.2
49	2/18/2012 13:00	1300	-7.8	76.6	1.503	158.6	20.14	1.202	0.114	0.801	1.416	0	-4.375	-4.229	0.044	17.84	0	0	-1.29	213.7	424.2
49	2/18/2012 14:00	1400	-7.44	72.9	1.176	159.2	24.85	3.98	0.135	0.807	1.153	0	-4.361	-4.225	0.044	17.84	0	0	-1.29	213.7	424.2
49	2/18/2012 15:00	1500	-7.81	72.9	1.257	171.7	17.88	1.231	0.118	0.807	0.899	0	-4.345	-4.22	0.044	17.85	0	0	-1.29	213.7	424.2
49	2/18/2012 16:00	1600	-7.84	70.8	1.23	156.7	19.34	-0.836	0.094	0.808	0.765	0	-4.323	-4.211	0.044	17.85	0	0	-1.289	213.7	424.2
49	2/18/2012 17:00	1700	-8.13	69.61	0.487	304	44.93	-3.692	0.051	0.806	0.634	0	-4.302	-4.201	0.044	17.85	0	0	-1.289	213.7	424.2
49	2/18/2012 18:00	1800	-8.54	73.2	1.459	136.9	14.4	-7.72	0.017	0.855	0.819	0	-4.28	-4.189	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 19:00	1900	-9.15	76.7	1.282	116.1	15.67	-9.96	0.001	0.298	0.975	0	-4.265	-4.177	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 20:00	2000	-9.41	77	0.536	119.1	27.93	-8.84	0	0.002	1.159	0	-4.256	-4.167	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 21:00	2100	-9.64	79.4	0.963	140.8	25.59	-9.33	0	0.002	1.288	0	-4.249	-4.158	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 22:00	2200	-9.87	80	0.802	61.98	28.51	-9.22	0	0.035	1.463	0	-4.246	-4.151	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/18/2012 23:00	2300	-9.28	77.1	1.682	125	12.72	-9.56	0	0.006	1.616	0	-4.246	-4.145	0.044	17.85	0	0	-1.288	213.7	424.2
49	2/19/2012 0:00	2400	-9.02	78	2.196	119.4	11.66	-10.41	0	0.002	1.809	0	-4.247	-4.139	0.044	17.85	0	0	-1.289	213.7	424.2
50	2/19/2012 1:00	100	-9.07	79.3	1.503	130.1	13.73	-9.33	0	0	1.878	0	-4.251	-4.137	0.044	17.85	0	0	-1.289	213.7	424.2
50	2/19/2012 2:00	200	-9.25	80.4	1.118	119.6	13.04	-9.24	0	0	1.879	0	-4.257	-4.136	0.044	17.84	0	0	-1.289	213.7	424.2
50	2/19/2012 3:00	300	-9.41	81.5	0.695	135.8	9.7	-8.81	0	0	1.879	0	-4.26	-4.137	0.044	17.85	0	0	-1.29	213.7	424.2
50	2/19/2012 4:00	400	-10.15	85.1	0.367	52.18	26.67	-8.36	0	0.005	1.88	0	-4.262	-4.138	0.044	17.85	0	0	-1.289	213.8	424.3
50	2/19/2012 5:00	500	-10.17	85.4	0.204	52.43	34.56	-8.68	0	0.044	1.879	0	-4.264	-4.138	0.044	17.85	0	0	-1.289	213.8	424.3
50	2/19/2012 6:00	600	-10.39	86.7	0.499	26.24	20.56	-8.8	0	0.026	1.881	0	-4.266	-4.138	0.044	17.85	0	0	-1.289	213.8	424.3
50	2/19/2012 7:00	700	-10.28	86.6	0.412	40.69	25.08	-9.86	0	0.014	1.88	0	-4.267	-4.137	0.044	17.85	0	0	-1.289	213.8	424.3
50	2/19/2012 8:00	800	-11	87.3	0.829	20.45	20.41	-16.83	0	0	2.028	0	-4.271	-4.136	0.044	17.85	0	0	-1.293	213.8	424.3
50	2/19/2012 9:00	900	-12.1	88.4	1.14	24.78	20.83	-13.62	0	0.112	2.187	0	-4.274	-4.135	0.044	17.85	0	0	-1.29	213.8	424.3
50	2/19/2012 10:00	1000	-10.92	87	0.689	23.23	58.44	-8.73	0.013	0.897	2.455	0	-4.28	-4.134	0.044	17.85	0	0	-1.291	213.8	424.3
50	2/19/2012 11:00	1100	-9.83	83.3	0.519	332.1	46.7	-9.16	0.049	0.815	2.502	0	-4.289	-4.135	0.044	17.85	0	0	-1.291	213.8	424.3
50	2/19/2012 12:00	1200	-8.61	77.2	0.401	327.6	39.16	-9.43	0.097	0.81	2.267	0	-4.295	-4.136	0.044	17.85	0	0	-1.293	213.8	424.3
50	2/19/2012 13:00	1300	-6.777	64.37	0.59	208.4	47.64	-14.94	0.178	0.83	1.928	0	-4.295	-4.137	0.044	17.85	0	0	-1.294	213.7	424.2
50	2/19/2012 14:00	1400	-6.378	49.57	0.637	347.6	26.67	-12.64	0.189	0.84	1.529	0	-4.289	-4.139	0.044	17.85	0	0	-1.299	213.7	424.2
50	2/19/2012 15:00	1500	-5.305	51.74	0.69	186.6	15	-5.909	0.183	0.819	1.157	0	-4.273	-4.134	0.044	17.85	0	0	-1.292	213.7	424.2
50	2/19/2012 16:00	1600	-7.07	62.04	1.396	158.9	21.32	-5.323	0.124	0.804	0.903	0	-4.256	-4.131	0.044	17.85	0	0	-1.292	213.7	424.2
50	2/19/2012 17:00	1700	-7.41	65.78	2.086	122.9	13.96	-8.86	0.077	0.806	0.835	0	-4.235	-4.124	0.044	17.85	0	0	-1.29	213.7	424.2
50	2/19/2012 18:00	1800	-8.13	70.4	1.871	120.9	14.97	-20.69	0.026	0.879	1.006	0	-4.215	-4.115	0.044	17.85	0	0	-1.29	213.7	424.2
50	2/19/2012 19:00	1900	-9.01	66.73	1.75	97	12.9	-23.19	0.001	0.366	1.32	0	-4.201	-4.104	0.044	17.85	0	0	-1.289	213.7	424.2
50	2/19/2012 20:00	2000	-8.87	64.91	2.007	97.2	14.04	-12.58	0	0	1.685	0	-4.194	-4.094	0.044	17					



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
51	2/20/2012 6:00	600	-11.67	81.9	3.832	108	12.83	-52.05	0	0	6.426	0	-4.449	-4.176	0.044	17.84	0	0	-1.287	213.7	424.2
51	2/20/2012 7:00	700	-11.84	83	3.559	113.3	12.75	-55.66	0	0	6.472	0	-4.521	-4.209	0.044	17.84	0	0	-1.288	213.7	424.2
51	2/20/2012 8:00	800	-11.79	83.2	3.555	114	14.58	-55.89	0	0	6.472	0	-4.585	-4.248	0.044	17.84	0	0	-1.288	213.7	424.2
51	2/20/2012 9:00	900	-11.94	84	4.235	110.6	13.87	-59.85	0	0.125	6.611	0	-4.641	-4.286	0.044	17.84	0	0	-1.288	213.7	424.2
51	2/20/2012 10:00	1000	-11.88	83.3	4.627	107.3	13.83	-52.73	0.018	1.093	7.43	0	-4.699	-4.324	0.044	17.84	0	0	-1.288	213.7	424.2
51	2/20/2012 11:00	1100	-11.11	79	4.908	103.3	14.73	-41.19	0.134	0.928	7.7	0	-4.767	-4.363	0.044	17.84	0	0	-1.289	213.7	424.2
51	2/20/2012 12:00	1200	-11.06	78.3	5.163	110.9	14.65	-36.3	0.127	0.861	7.71	0	-4.835	-4.407	0.044	17.83	0	0	-1.297	213.7	424.2
51	2/20/2012 13:00	1300	-10.71	76.8	5.41	114.1	13.2	-9.37	0.149	0.798	8.24	0	-4.896	-4.448	0.044	17.83	0	0	-1.302	213.7	424.2
51	2/20/2012 14:00	1400	-10.6	77.4	6.03	115.4	13.64	6.555	0.115	0.787	8.02	0	-4.955	-4.49	0.044	17.84	0	0	-1.302	213.7	424.2
51	2/20/2012 15:00	1500	-10.58	77.8	6.265	113.9	14.35	11.32	0.118	0.786	8.57	0	-5.005	-4.528	0.044	17.83	0	0	-1.303	213.7	424.2
51	2/20/2012 16:00	1600	-10.46	78.1	6.724	114.4	13.74	-1.558	0.099	0.778	9.4	0	-5.058	-4.56	0.044	17.83	0	0	-1.302	213.7	424.2
51	2/20/2012 17:00	1700	-10.53	80.4	6.764	109.2	14.89	-5.153	0.064	0.76	9.79	0	-5.107	-4.59	0.044	17.83	0	0	-1.302	213.7	424.2
51	2/20/2012 18:00	1800	-10.44	81.9	6.637	109.1	14.71	-2.817	0.018	0.8	9.47	0	-5.149	-4.615	0.044	17.83	0	0	-1.302	213.8	424.3
51	2/20/2012 19:00	1900	-10.32	83	6.085	107.8	15.15	-4.723	0.001	0.244	9.14	0	-5.183	-4.639	0.044	17.83	0	0	-1.302	213.8	424.3
51	2/20/2012 20:00	2000	-10.2	84.2	6.31	108.2	14.31	-4.462	0	0.018	8.5	0	-5.208	-4.662	0.044	17.83	0	0	-1.302	213.9	424.4
51	2/20/2012 21:00	2100	-10.14	85.4	6.494	106.1	12.52	-3.535	0	0.029	8.28	0	-5.224	-4.684	0.044	17.83	0	0	-1.302	214.2	424.7
51	2/20/2012 22:00	2200	-10.03	84.8	6.346	106	13.14	-6.782	0	0.005	7.95	0	-5.236	-4.702	0.044	17.83	0	0	-1.303	214.2	424.7
51	2/20/2012 23:00	2300	-9.71	85.4	4.937	111.4	14.03	-7.79	0	0.017	7.44	0	-5.247	-4.72	0.044	17.83	0	0	-1.302	214.3	424.8
51	2/21/2012 0:00	2400	-9.5	85.4	3.918	112.7	16.39	-17.37	0	0.002	6.21	0	-5.246	-4.736	0.044	17.83	0	0	-1.301	214.3	424.8
52	2/21/2012 1:00	100	-9.18	85.6	3.122	125.9	15.3	-19.4	0	0	5.527	0	-5.227	-4.746	0.044	17.83	0	0	-1.302	214.3	424.8
52	2/21/2012 2:00	200	-9.47	86.3	2.723	138.1	13	-49.58	0	0	4.809	0	-5.201	-4.753	0.044	17.83	0	0	-1.301	214.3	424.8
52	2/21/2012 3:00	300	-8.94	83.6	2.186	112.6	18.68	-46.36	0	0	5.072	0	-5.172	-4.755	0.044	17.83	0	0	-1.301	214.3	424.8
52	2/21/2012 4:00	400	-7.77	80.1	2.372	112.9	13.87	-27.12	0	0.002	5.204	0	-5.154	-4.754	0.044	17.84	0	0	-1.302	214.3	424.8
52	2/21/2012 5:00	500	-7.66	79.5	2.308	115.5	14.01	-29.07	0	0	4.748	0	-5.14	-4.752	0.044	17.83	0	0	-1.302	214.3	424.8
52	2/21/2012 6:00	600	-7.02	78.7	2.468	116.9	13.55	-10.1	0	0.018	4.309	0	-5.122	-4.75	0.044	17.84	0	0	-1.301	214.3	424.8
52	2/21/2012 7:00	700	-6.813	78.1	2.212	117.4	16.51	-14.38	0	0	3.554	0	-5.101	-4.749	0.044	17.83	0	0	-1.301	214.3	424.8
52	2/21/2012 8:00	800	-6.808	78	2.059	123	17.53	-20.78	0	0	3.125	0	-5.074	-4.746	0.044	17.83	0	0	-1.303	214.3	424.8
52	2/21/2012 9:00	900	-6.78	78.6	2.381	112.3	15.08	-15.76	0.001	0.25	3.015	0	-5.041	-4.739	0.044	17.83	0	0	-1.302	214.3	424.8
52	2/21/2012 10:00	1000	-6.369	78.8	2.283	120	13.41	-6.731	0.02	0.84	2.965	0	-5.012	-4.728	0.044	17.83	0	0	-1.303	214.3	424.8
52	2/21/2012 11:00	1100	-6.03	80.3	2.322	123.4	14.42	-1.4	0.044	0.768	2.375	0	-4.983	-4.717	0.044	17.84	0	0	-1.303	214.3	424.8
52	2/21/2012 12:00	1200	-5.52	82.1	1.895	132.4	15.86	6.083	0.108	0.793	1.672	0	-4.947	-4.703	0.044	17.83	0	0	-1.304	214.5	425
52	2/21/2012 13:00	1300	-3.815	77.5	1.424	146.6	23.06	4.933	0.212	0.816	0.685	0	-4.898	-4.684	0.044	17.83	0	0	-1.305	214.5	425
52	2/21/2012 14:00	1400	-3.142	73.7	0.681	78.8	56.07	-6.046	0.189	0.821	-0.147	0	-4.83	-4.66	0.044	17.83	0	0	-1.302	214.6	425.1
52	2/21/2012 15:00	1500	-2.895	71.7	0.516	284.5	42.18	-18.98	0.189	0.829	-0.721	0	-4.756	-4.631	0.044	17.83	0	0	-1.306	214.6	425.1
52	2/21/2012 16:00	1600	-2.747	70	0.904	285.4	24.81	-16.41	0.22	0.852	-1.054	0	-4.679	-4.596	0.044	17.84	0	0	-1.306	214.6	425.1
52	2/21/2012 17:00	1700	-2.69	69.36	1.108	266.7	16.86	-24.19	0.163	0.865	-1.098	0	-4.603	-4.556	0.044	17.83	0	0	-1.301	214.6	425.1
52	2/21/2012 18:00	1800	-4.344	79.1	1.648	301.6	14.18	-22.03	0.045	0.874	-0.71	0	-4.538	-4.518	0.044	17.84	0	0	-1.302	214.6	425.1
52	2/21/2012 19:00	1900	-4.75	83.5	1.84	321.4	10.57	-9.04	0.002	0.319	0.118	0	-4.487	-4.479	0.044	17.84	0	0	-1.303	214.6	425.1
52	2/21/2012 20:00	2000	-4.832	83.5	2.523	329.2	10.99	-15.52	0	0.011	0.554	0	-4.454	-4.44	0.044	17.84	0	0	-1.304	214.6	425.1
52	2/21/2012 21:00	2100	-4.908	84.7	2.287	321.8	14.93	-10.72	0	0	0.811	0	-4.432	-4.406	0.044	17.84	0	0	-1.304	214.6	425.1
52	2/21/2012 22:00	2200	-5.001	82.1	4.025	308.2	13.3	-13.94	0	0	1.023	0	-4.415	-4.377	0.044	17.84	0	0	-1.297	214.6	425.1
52	2/21/2012 23:00	2300	-5.209	81.4	3.88	292.2	17.91	-19.05	0	0	1.459	0	-4.404	-4.353	0.044	17.84	0	0	-1.296	214.7	425.2
52	2/22/2012 0:00	2400	-5.353	79.1	3.643	307	13.31	-13.36	0	0	1.46	0	-4.399	-4.333	0.044	17.84	0	0	-1.296	214.6	425.1
53	2/22/2012 1:00	100	-5.71	81.9	3.518	291.8	16.58	-10.72	0	0	1.468	0	-4.391	-4.317	0.044	17.84	0	0	-1.297	214.7	425.2
53	2/22/2012 2:00	200	-6.148	86.1	3.979	287.7	16.05	-12.42	0	0	1.46	0	-4.385	-4.305	0.044	17.84	0	0	-1.303	214.9	425.4
53	2/22/2012 3:00	300	-6.478	87.9	4.544	293.4	12.93	-13.24	0	0	1.46	0	-4.376	-4.292	0.044	17.84	0	0	-1.302	215	425.5
53	2/22/2012 4:00	400	-6.843	90.3	4.471	296.2	14.28	-7.91	0	0	1.46	0	-4.366	-4.281	0.044	17.84	0	0	-1.303	215.2	425.7
53	2/22/2012 5:00	500	-7.07	91	4.411	295.8	14.24	-9.07	0	0.005	1.602	0	-4.36	-4.27	0.044	17.84	0	0	-1.302	215.6	426.1
53	2/22/2012 6:00	600	-7.36	87.2	3.424	295.5	11.54	-15.1	0	0	1.668	0	-4.357	-4.261	0.044	17.84	0	0	-1.302	215.6	426.1
53	2/22/2012 7:00	700	-7.79	83.3	3.618	299.1	11.58	-16.5	0	0	1.668	0	-4.354	-4.253	0.044	17.84	0	0	-1.302	215.6	426.1
53	2/22/2012 8:00	800	-8.63	81.3	3.058	305.8	11.29	-39.9	0	0	1.808	0	-4.349	-4.244	0.044	17.84	0	0	-1.302	215.6	426.1
53	2/22/2012 9:00	900	-9.91	83	2.473	326.4	9.97	-50.16	0.001	0.326	2.013	0	-4.348	-4.237	0.044	17.85	0	0	-1.303	215.6	426.1
53	2/22/2012 10:00	1000	-9.69	78	2.772	327.9	10.63	-47.31	0.026	0.96	2.357	0	-4.351	-4.231	0.044	17.84	0	0	-1.303	215.6	426.1
53	2/22/2012 11:00	1100	-9.01	72.5	2.929	311.6	10.63	-51.38	0.135	0.947	2.631	0	-4.357	-4.224	0.044	17.84	0	0	-1.305	215.6	426.1
53	2/22/2012 12:00	1200	-7.91	66.86	2.969	296.8	11.99	-64.07	0.229	0.926	2.609	0	-4.365	-4.219	0.044	17.84	0	0	-1.305	215.6	426.1
53	2/22/2012 13:00	1300	-7.51	64.89	3.591	288.4	14.57	-68.75	0.284	0.906	2.19	0	-4.372	-4.22	0.044	17.84	0	0	-1.304	215.6	426.1
53	2/22/2012 14:00	1400	-7.43	66.58	3.436	281.1	20.19	-68.63	0.299	0.901	1.841	0	-4.368	-4.218	0.044	17.84	0	0	-1.305		



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
53	2/23/2012 0:00	2400	-10.3	72.7	1.155	331.6	21.11	-22.07	0	0	3.132	0	-4.39	-4.186	0.044	17.84	0	0	-1.302	215.6	426.1
54	2/23/2012 1:00	100	-11.86	79.5	1.184	23.78	13.98	-15.14	0	0.017	3.132	0	-4.41	-4.195	0.044	17.84	0	0	-1.305	215.6	426.1
54	2/23/2012 2:00	200	-12.57	82.4	1.095	359	19.36	-18.73	0	0.003	3.137	0	-4.425	-4.202	0.044	17.84	0	0	-1.303	215.6	426.1
54	2/23/2012 3:00	300	-12.79	81.3	1.288	7.06	16.18	-23.35	0	0.011	3.14	0	-4.44	-4.21	0.044	17.84	0	0	-1.305	215.6	426.1
54	2/23/2012 4:00	400	-13.43	83	1.334	6.083	11.74	-23.32	0	0.005	3.306	0	-4.456	-4.221	0.044	17.84	0	0	-1.303	215.6	426.1
54	2/23/2012 5:00	500	-13.39	83.7	1.188	1.584	14.02	-13.64	0	0.011	3.461	0	-4.474	-4.23	0.044	17.84	0	0	-1.303	215.6	426.1
54	2/23/2012 6:00	600	-13.2	83.6	1.465	10.98	6.551	-19.58	0	0.003	3.563	0	-4.494	-4.24	0.044	17.84	0	0	-1.306	215.6	426.1
54	2/23/2012 7:00	700	-13.76	85.3	1.453	359.6	12.26	-21.9	0	0.008	3.763	0	-4.518	-4.253	0.044	17.84	0	0	-1.302	215.6	426.1
54	2/23/2012 8:00	800	-13.3	82.4	1.774	343.7	9.55	-25.39	0	0.005	3.768	0	-4.542	-4.265	0.044	17.84	0	0	-1.303	215.6	426.1
54	2/23/2012 9:00	900	-12.73	82.5	2.135	319.4	11.33	-23.36	0.001	0.241	3.942	0	-4.566	-4.279	0.044	17.84	0	0	-1.302	215.6	426.1
54	2/23/2012 10:00	1000	-12.24	82.7	1.703	299.6	14.37	-4.489	0.014	0.897	4.16	0	-4.593	-4.295	0.044	17.84	0	0	-1.303	215.7	426.2
54	2/23/2012 11:00	1100	-11.67	85	1.522	306.2	14.02	-1.652	0.071	0.812	3.888	0	-4.618	-4.31	0.044	17.84	0	0	-1.303	215.9	426.4
54	2/23/2012 12:00	1200	-11.33	84.1	1.678	300.5	12.09	-17.76	0.12	0.837	3.488	0	-4.635	-4.327	0.044	17.84	0	0	-1.304	215.9	426.4
54	2/23/2012 13:00	1300	-9.65	77.6	1.134	291.3	13.84	-43.57	0.225	0.897	3.034	0	-4.639	-4.34	0.044	17.84	0	0	-1.309	215.9	426.4
54	2/23/2012 14:00	1400	-7.63	71	1.471	266.5	20.79	-36.71	0.369	0.88	2.409	0	-4.629	-4.347	0.044	17.83	0	0	-1.309	215.9	426.4
54	2/23/2012 15:00	1500	-7.13	71	2.144	248.1	17.59	-10.31	0.444	0.859	1.606	0	-4.608	-4.351	0.044	17.83	0	0	-1.306	215.9	426.4
54	2/23/2012 16:00	1600	-8.04	73.9	2.389	275.9	20.47	-17.88	0.289	0.857	0.977	0	-4.575	-4.351	0.044	17.84	0	0	-1.304	215.9	426.4
54	2/23/2012 17:00	1700	-9.22	79.8	1.779	271.7	20.68	-16.88	0.125	0.829	0.834	0	-4.535	-4.345	0.044	17.84	0	0	-1.304	216	426.5
54	2/23/2012 18:00	1800	-9.62	83.6	1.692	275.4	20.12	-16.86	0.05	0.852	0.911	0	-4.494	-4.329	0.044	17.84	0	0	-1.305	216	426.5
54	2/23/2012 19:00	1900	-10.7	88.3	1.581	297.3	14.81	-31.3	0.004	0.597	1.211	0	-4.467	-4.313	0.044	17.84	0	0	-1.305	216.1	426.6
54	2/23/2012 20:00	2000	-11.55	86.7	1.792	330.1	12.8	-46.7	0	0	1.646	0	-4.451	-4.298	0.044	17.84	0	0	-1.307	216.1	426.6
54	2/23/2012 21:00	2100	-12.07	86.3	1.819	349	9.53	-49.74	0	0	2.135	0	-4.446	-4.285	0.044	17.84	0	0	-1.308	216.1	426.6
54	2/23/2012 22:00	2200	-14.32	84.5	1.623	5.613	9.98	-49.96	0	0	2.654	0	-4.455	-4.279	0.044	17.84	0	0	-1.312	216.1	426.6
54	2/23/2012 23:00	2300	-16.84	86.3	1.671	8.06	9	-46.07	0	0.002	3.197	0	-4.473	-4.277	0.044	17.84	0	0	-1.314	216.1	426.6
54	2/24/2012 0:00	2400	-19.6	84.1	1.957	19.13	8.88	-42.92	0	0.005	4.023	0	-4.505	-4.281	0.044	17.84	0	0	-1.307	216.1	426.6
55	2/24/2012 1:00	100	-18.17	86.5	1.693	28.18	13.78	-42.03	0	0.005	4.706	0	-4.551	-4.291	0.044	17.85	0	0	-1.311	216.1	426.6
55	2/24/2012 2:00	200	-19.06	84.9	1.978	28.79	18.38	-40.27	0	0	5.601	0	-4.61	-4.307	0.044	17.85	0	0	-1.312	216.1	426.6
55	2/24/2012 3:00	300	-18.52	85.2	2.067	27.72	3.468	-40.71	0	0	6.664	0	-4.684	-4.33	0.044	17.84	0	0	-1.31	216.1	426.6
55	2/24/2012 4:00	400	-19.21	85.2	1.958	17.35	5.711	-41.21	0	0	7.36	0	-4.775	-4.362	0.044	17.83	0	0	-1.306	216.1	426.6
55	2/24/2012 5:00	500	-19.52	84.9	2.047	26.94	3.796	-31.41	0	0.002	7.91	0	-4.872	-4.405	0.044	17.83	0	0	-1.308	216.1	426.6
55	2/24/2012 6:00	600	-17.75	86.1	1.171	34.22	18.32	-9.97	0	0.011	8	0	-4.969	-4.451	0.044	17.83	0	0	-1.305	216.1	426.6
55	2/24/2012 7:00	700	-15.47	87.4	0.875	48.38	18.64	-3.224	0	0.029	7.3	0	-5.051	-4.501	0.044	17.83	0	0	-1.302	216.1	426.6
55	2/24/2012 8:00	800	-15.87	87	1.069	51.86	11.67	-4.774	0	0	6.482	0	-5.107	-4.55	0.044	17.83	0	0	-1.302	216.1	426.6
55	2/24/2012 9:00	900	-16.31	86.5	0.835	47.17	14.23	-4.317	0.001	0.36	5.839	0	-5.144	-4.594	0.044	17.83	0	0	-1.301	216.1	426.6
55	2/24/2012 10:00	1000	-16.99	85.8	0.81	355.6	12.24	-5.032	0.02	0.921	5.26	0	-5.165	-4.631	0.044	17.82	0	0	-1.302	216.1	426.6
55	2/24/2012 11:00	1100	-16.93	86	0.673	21.31	24.38	-3.285	0.06	0.876	4.907	0	-5.175	-4.661	0.044	17.83	0	0	-1.302	216.1	426.6
55	2/24/2012 12:00	1200	-15.42	86.8	0.332	24.5	54.15	-1.513	0.109	0.866	4.367	0	-5.175	-4.683	0.044	17.83	0	0	-1.302	216.1	426.6
55	2/24/2012 13:00	1300	-15	86.8	0.232	280.7	31.84	-14.27	0.185	0.81	3.716	0	-5.166	-4.7	0.044	17.83	0	0	-1.304	216.1	426.6
55	2/24/2012 14:00	1400	-14.5	86	0.607	249.9	21.79	-22.37	0.245	0.769	3.029	0	-5.147	-4.713	0.044	17.82	0	0	-1.302	216.1	426.6
55	2/24/2012 15:00	1500	-13.44	85	0.722	270.4	15.81	-40.69	0.311	0.742	2.477	0	-5.117	-4.719	0.044	17.82	0	0	-1.303	216.1	426.6
55	2/24/2012 16:00	1600	-14.1	84.8	0.837	239.5	15.07	-12.26	0.178	0.814	2.076	0	-5.08	-4.718	0.044	17.83	0	0	-1.3	216.1	426.6
55	2/24/2012 17:00	1700	-14.82	85.8	0.794	235.8	18.63	-12.7	0.099	0.854	1.903	0	-5.045	-4.713	0.044	17.84	0	0	-1.298	216.1	426.6
55	2/24/2012 18:00	1800	-15.69	86.2	0.538	248	25.62	-15.19	0.032	0.932	2.009	0	-5.015	-4.704	0.044	17.84	0	0	-1.298	216.1	426.6
55	2/24/2012 19:00	1900	-16.2	86.3	0.469	257.2	65.65	-11.56	0.003	0.601	2.275	0	-4.989	-4.693	0.044	17.84	0	0	-1.298	216.1	426.6
55	2/24/2012 20:00	2000	-16.58	86.1	0.298	302.5	28.52	-10.3	0	0	2.64	0	-4.976	-4.683	0.044	17.83	0	0	-1.298	216.1	426.6
55	2/24/2012 21:00	2100	-16.7	85.8	0.509	95.7	21.69	-6.997	0	0	2.914	0	-4.974	-4.679	0.044	17.83	0	0	-1.298	216.1	426.6
55	2/24/2012 22:00	2200	-17.31	85.2	1.241	74.1	20.21	-5.826	0	0.002	3.131	0	-4.978	-4.677	0.044	17.83	0	0	-1.298	216.1	426.6
55	2/24/2012 23:00	2300	-17.43	85.3	1.399	71.9	14.97	-6.309	0	0	3.439	0	-4.988	-4.679	0.044	17.84	0	0	-1.298	216.1	426.6
55	2/25/2012 0:00	2400	-17.42	85	0.899	64.74	22.55	-7.16	0	0	3.628	0	-5.002	-4.683	0.044	17.83	0	0	-1.297	216.1	426.6
56	2/25/2012 1:00	100	-17.55	85.1	1.081	90.9	30.23	-7.01	0	0.002	3.653	0	-5.018	-4.69	0.044	17.84	0	0	-1.298	216.1	426.6
56	2/25/2012 2:00	200	-17.57	85	1.028	81.2	26.05	-7.86	0	0	3.86	0	-5.034	-4.699	0.044	17.83	0	0	-1.299	216.1	426.6
56	2/25/2012 3:00	300	-17.76	84.8	0.937	49.79	24.33	-8.59	0	0	3.851	0	-5.051	-4.709	0.044	17.83	0	0	-1.299	216.1	426.6
56	2/25/2012 4:00	400	-17.92	84.7	0.831	50.23	22.51	-8.41	0	0	3.852	0	-5.068	-4.721	0.044	17.83	0	0	-1.299	216.1	426.6
56	2/25/2012 5:00	500	-18.03	84.5	0.911	63.47	23.68	-8.4	0	0	4.025	0	-5.086	-4.732	0.044	17.83	0	0	-1.3	216.1	426.6
56	2/25/2012 6:00	600	-18.22	84.3	1.066	70.9	18.96	-8.53	0	0	4.061	0	-5.105	-4.744	0.044	17.83	0	0	-1.3	216.1	426.6
56	2/25/2012 7:00	700	-18.48	84	1.058	69.76	19.32	-8.77	0	0	4.11	0	-5.123	-4.757	0.044	17.83	0	0	-1.3	216.1	426.6
56	2/25/2012 8:00	800	-18.42	84.2	1.074	72.1	20.73	-9.43	0	0	4.263	0	-5.142	-4.77	0.044	17.83	0	0	-1.3	216.1	426.6
56																					



Grum Meteorological Data February 1 - February 29, 2012



Grum Climate Station - February 2012 data

Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
56	2/25/2012 18:00	1800	-14.2	59.32	0.633	129.2	33.04	-54.75	0.086	0.801	2.422	0	-5.171	-4.872	0.044	17.82	0	0	-1.305	216.1	426.6
56	2/25/2012 19:00	1900	-17.82	76.5	1.07	73.6	7.4	-42.09	0.004	0.773	3.109	0	-5.162	-4.868	0.044	17.82	0	0	-1.312	216.1	426.6
56	2/25/2012 20:00	2000	-22.1	80.4	1.465	29.36	24.47	-45.39	0	0.002	4.399	0	-5.178	-4.87	0.044	17.82	0	0	-1.309	216.2	426.7
56	2/25/2012 21:00	2100	-22.39	81.4	1.53	37.83	17.99	-41.66	0	0	6.004	0	-5.218	-4.875	0.044	17.82	0	0	-1.314	216.2	426.7
56	2/25/2012 22:00	2200	-23.36	80.2	1.501	29.69	21.15	-39.53	0	0.003	8.02	0	-5.291	-4.889	0.044	17.83	0	0	-1.309	216.2	426.7
56	2/25/2012 23:00	2300	-22.67	80.9	2.09	35.4	9.4	-34.75	0	0.002	9.09	0	-5.395	-4.918	0.044	17.83	0	0	-1.307	216.2	426.7
56	2/26/2012 0:00	2400	-22.01	82.7	1.88	20.84	19.18	-34.96	0	0.003	10.04	0	-5.51	-4.958	0.044	17.82	0	0	-1.307	216.2	426.7
57	2/26/2012 1:00	100	-20.98	82.8	1.198	14.97	19.23	-26.66	0	0.009	9.92	0	-5.627	-5.01	0.044	17.81	0	0	-1.309	216.2	426.7
57	2/26/2012 2:00	200	-21.61	82.9	1.078	15.7	27.11	-33.51	0	0.018	9.52	0	-5.728	-5.068	0.044	17.81	0	0	-1.306	216.2	426.7
57	2/26/2012 3:00	300	-20.33	82.8	0.745	3.436	43	-16.1	0	0.002	9.02	0	-5.809	-5.125	0.044	17.82	0	0	-1.307	216.1	426.6
57	2/26/2012 4:00	400	-19.55	82.3	0.715	22.81	22.98	-13.52	0	0.005	8.28	0	-5.87	-5.179	0.044	17.81	0	0	-1.311	216.1	426.6
57	2/26/2012 5:00	500	-20.48	80.3	1.084	21.69	25.18	-23	0	0	7.79	0	-5.916	-5.229	0.044	17.82	0	0	-1.31	216.1	426.6
57	2/26/2012 6:00	600	-20.69	75.7	1.276	26.33	17.07	-29.98	0	0	7.69	0	-5.953	-5.27	0.044	17.82	0	0	-1.308	216.1	426.6
57	2/26/2012 7:00	700	-21.31	75.7	1.221	30.19	11.41	-29.82	0	0.006	7.91	0	-5.987	-5.307	0.044	17.82	0	0	-1.312	216.1	426.6
57	2/26/2012 8:00	800	-21.29	76.1	1.119	10.65	26.41	-20.98	0	0.002	8.11	0	-6.028	-5.343	0.044	17.81	0	0	-1.308	216.1	426.6
57	2/26/2012 9:00	900	-19.82	76.9	0.786	357.3	28.29	-7.72	0.002	0.39	8	0	-6.071	-5.378	0.044	17.81	0	0	-1.308	216.1	426.6
57	2/26/2012 10:00	1000	-18.92	77.2	0.598	329.4	27.4	-8.1	0.027	0.852	7.3	0	-6.108	-5.414	0.044	17.81	0	0	-1.308	216.1	426.6
57	2/26/2012 11:00	1100	-17.86	74	0.53	344.1	39.68	-16.38	0.088	0.824	6.547	0	-6.13	-5.448	0.044	17.81	0	0	-1.31	216.1	426.6
57	2/26/2012 12:00	1200	-16.59	70.2	1.048	162.6	19.4	-12.22	0.134	0.825	5.723	0	-6.134	-5.475	0.043	17.8	0	0	-1.307	216.1	426.6
57	2/26/2012 13:00	1300	-15.35	63.22	1.015	183.2	21.51	-20.79	0.216	0.786	4.803	0	-6.123	-5.494	0.044	17.81	0	0	-1.308	216.1	426.6
57	2/26/2012 14:00	1400	-14.67	60.54	0.789	187.6	13.4	-2.722	0.156	0.839	3.983	0	-6.097	-5.507	0.044	17.81	0	0	-1.309	216.1	426.6
57	2/26/2012 15:00	1500	-14.28	58.95	0.821	172.6	29.27	-2.803	0.139	0.834	3.425	0	-6.066	-5.517	0.044	17.81	0	0	-1.308	216.1	426.6
57	2/26/2012 16:00	1600	-14.25	59.63	0.489	194.7	57.67	-2.723	0.118	0.827	3.026	0	-6.03	-5.52	0.044	17.81	0	0	-1.305	216.1	426.6
57	2/26/2012 17:00	1700	-14.15	60.29	0.097	221.3	35.31	-0.789	0.055	0.845	2.961	0	-5.996	-5.519	0.043	17.81	0	0	-1.305	216.1	426.6
57	2/26/2012 18:00	1800	-14.53	62.3	0.383	212.7	66.66	-3.798	0.025	0.853	2.961	0	-5.966	-5.514	0.044	17.81	0	0	-1.303	216.1	426.6
57	2/26/2012 19:00	1900	-14.35	66.17	0.672	149.3	28.87	-4.896	0.003	0.533	2.969	0	-5.941	-5.507	0.043	17.81	0	0	-1.299	216.1	426.6
57	2/26/2012 20:00	2000	-14.53	78.6	0.585	129.8	32.14	-5.865	0	0.038	2.973	0	-5.921	-5.5	0.044	17.81	0	0	-1.298	216.2	426.7
57	2/26/2012 21:00	2100	-14.39	81.9	0.963	112.9	42.61	-15.82	0	0.006	2.975	0	-5.904	-5.494	0.044	17.82	0	0	-1.3	216.2	426.7
57	2/26/2012 22:00	2200	-13.66	79	1.947	139.9	21.25	-23.52	0	0.035	3.068	0	-5.89	-5.488	0.044	17.82	0	0	-1.299	216.2	426.7
57	2/26/2012 23:00	2300	-13.08	76.1	1.237	145	30.16	-21.54	0	0.002	3.175	0	-5.879	-5.485	0.044	17.82	0	0	-1.298	216.2	426.7
57	2/27/2012 0:00	2400	-13.5	76.6	1.468	146.5	23.05	-38.76	0	0	3.172	0	-5.873	-5.484	0.044	17.82	0	0	-1.299	216.2	426.7
58	2/27/2012 1:00	100	-12.82	76.5	1.857	140.7	20.68	-40.18	0	0.009	3.255	0	-5.866	-5.481	0.044	17.82	0	0	-1.299	216.2	426.7
58	2/27/2012 2:00	200	-11.32	73.8	2.479	131.6	14.08	-14.15	0	0.058	3.57	0	-5.864	-5.482	0.044	17.82	0	0	-1.298	216.2	426.7
58	2/27/2012 3:00	300	-10.65	75.9	3.088	124.1	14.5	-13.55	0	0	3.817	0	-5.87	-5.483	0.044	17.81	0	0	-1.297	216.2	426.7
58	2/27/2012 4:00	400	-10.34	72.8	3.34	115	14.03	-11	0	0	3.98	0	-5.882	-5.488	0.044	17.82	0	0	-1.297	216.2	426.7
58	2/27/2012 5:00	500	-10.43	73.6	3.125	109.7	13.67	-8.32	0	0.003	3.981	0	-5.899	-5.498	0.044	17.81	0	0	-1.297	216.2	426.7
58	2/27/2012 6:00	600	-10.06	72.6	3.554	113.1	13.9	-9.37	0	0	3.972	0	-5.909	-5.509	0.044	17.82	0	0	-1.296	216.2	426.7
58	2/27/2012 7:00	700	-9.99	73.8	4.118	109.9	13.67	-11.67	0	0	3.986	0	-5.915	-5.519	0.044	17.81	0	0	-1.296	216.2	426.7
58	2/27/2012 8:00	800	-9.83	75.1	4.501	112.9	14.74	-9.84	0	0	4.236	0	-5.923	-5.525	0.044	17.82	0	0	-1.297	216.2	426.7
58	2/27/2012 9:00	900	-9.76	77.3	4.503	112.6	14.8	-9.73	0.002	0.405	4.379	0	-5.934	-5.532	0.044	17.82	0	0	-1.297	216.2	426.7
58	2/27/2012 10:00	1000	-9.4	77.9	4.238	111.5	15.26	-6.586	0.029	0.826	4.221	0	-5.945	-5.541	0.044	17.81	0	0	-1.297	216.2	426.7
58	2/27/2012 11:00	1100	-9.07	77.1	4.662	109.2	13.68	-0.431	0.073	0.796	3.918	0	-5.947	-5.546	0.043	17.81	0	0	-1.297	216.1	426.6
58	2/27/2012 12:00	1200	-8.64	75.8	4.445	110.3	13.39	0.348	0.105	0.802	3.634	0	-5.944	-5.552	0.043	17.81	0	0	-1.297	216.2	426.7
58	2/27/2012 13:00	1300	-7.71	72	4.271	114.6	14.4	2.427	0.163	0.815	3.132	0	-5.929	-5.552	0.044	17.81	0	0	-1.298	216.1	426.6
58	2/27/2012 14:00	1400	-6.668	66.9	4.424	117.6	14.71	-19.97	0.221	0.843	2.492	0	-5.904	-5.55	0.043	17.81	0	0	-1.299	216.1	426.6
58	2/27/2012 15:00	1500	-5.638	63.25	3.763	119	16.04	-23.49	0.274	0.844	1.791	0	-5.866	-5.541	0.044	17.82	0	0	-1.3	216.1	426.6
58	2/27/2012 16:00	1600	-5.236	60.63	3.417	114.9	17.37	-50.13	0.228	0.867	1.181	0	-5.816	-5.526	0.044	17.81	0	0	-1.299	216.1	426.6
58	2/27/2012 17:00	1700	-5.956	63.98	3.775	115.4	14.51	-39.91	0.154	0.852	1.029	0	-5.76	-5.506	0.044	17.82	0	0	-1.298	216.1	426.6
58	2/27/2012 18:00	1800	-7.01	69.47	3.695	109.2	13.67	-37.05	0.054	0.858	1.272	0	-5.708	-5.481	0.044	17.82	0	0	-1.296	216.1	426.6
58	2/27/2012 19:00	1900	-7.67	72.9	3.255	107.3	13.01	-45.36	0.006	0.928	1.781	0	-5.671	-5.454	0.044	17.81	0	0	-1.296	216.1	426.6
58	2/27/2012 20:00	2000	-7.87	74.2	2.667	102.8	13.19	-38.59	0	0	2.231	0	-5.645	-5.427	0.044	17.81	0	0	-1.295	216.1	426.6
58	2/27/2012 21:00	2100	-7.54	75.8	2.921	111.2	13.44	-16.97	0	0	2.472	0	-5.631	-5.405	0.044	17.82	0	0	-1.295	216.1	426.6
58	2/27/2012 22:00	2200	-7.74	77	2.908	109.5	13.68	-13.65	0	0	2.614	0	-5.624	-5.391	0.044	17.82	0	0	-1.295	216.1	426.6
58	2/27/2012 23:00	2300	-7.97	76.2	3.048	111.8	14.78	-21.04	0	0	2.507	0	-5.617	-5.378	0.044	17.81	0	0	-1.294	216.2	426.7
58	2/28/2012 0:00	2400	-8.69	79.2	2.91	105.9	12.56	-25.18	0	0	2.509	0	-5.607	-5.367	0.044	17.81	0	0	-1.295	216.2	426.7
59	2/28/2012 1:00	100	-8.63	80.5	2.708	118.6	13.53	-9.86	0	0	2.509	0	-5.597	-5.356	0.044	17.82	0	0	-1.294	216.2	426.7
59	2/28/2012 2:00	200	-9.04	83.3	2.778	120.3	13.65	-11.6	0	0	2.509	0	-5.588	-5.347	0.044						



Grum Meteorological Data February 1 - February 29, 2012

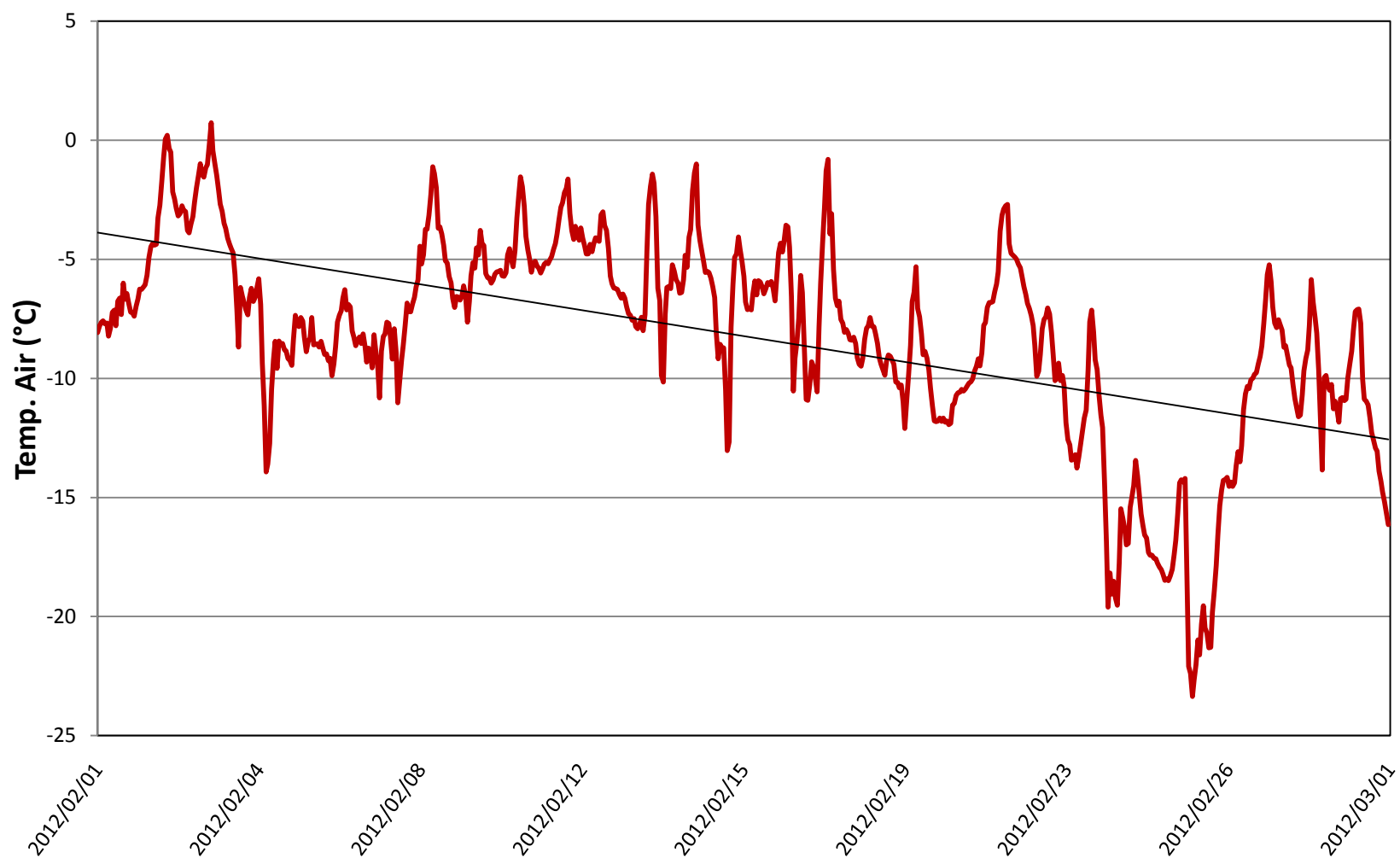


Grum Climate Station - February 2012 data

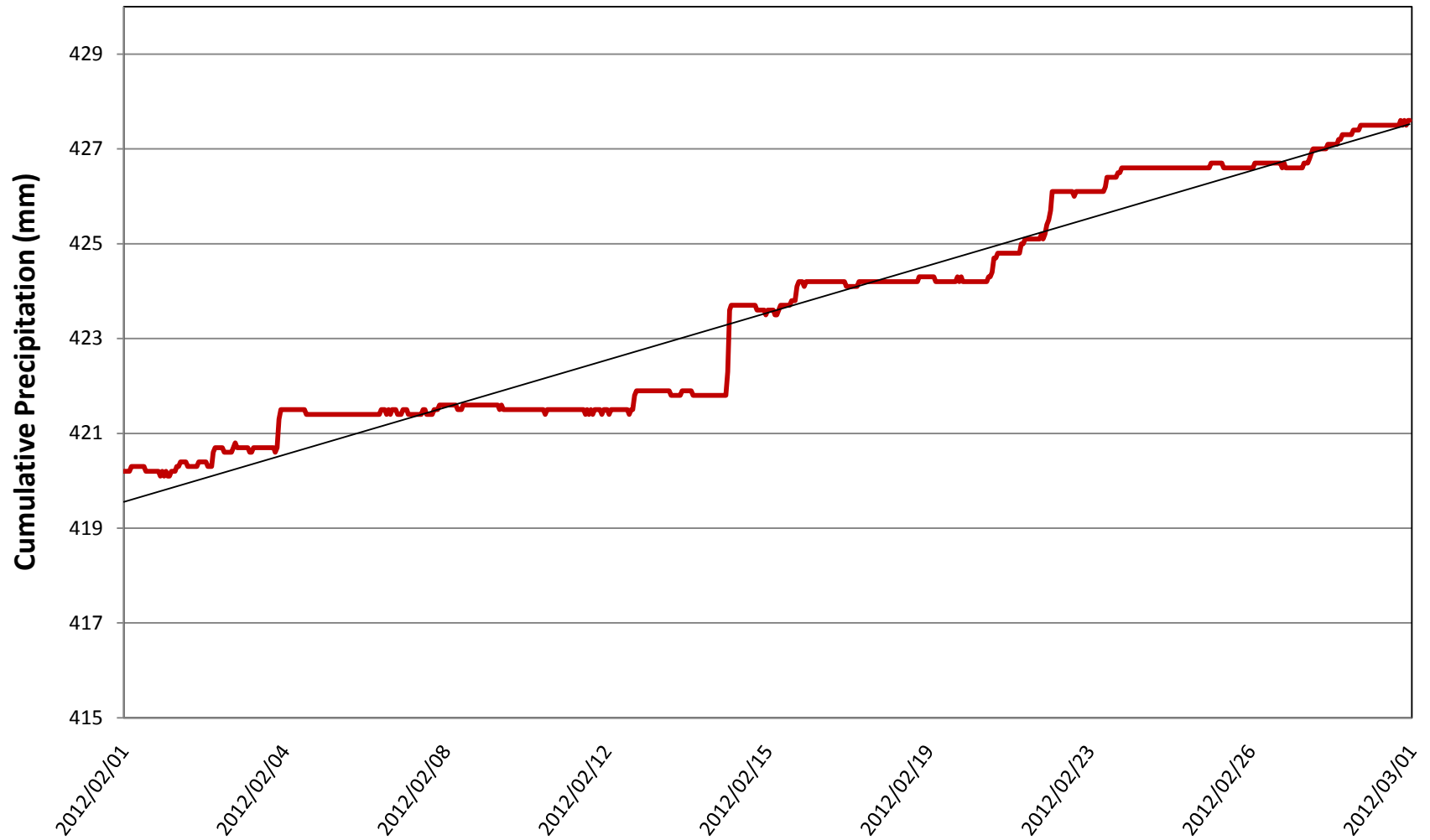
Note: Cumulative precipitation is calculated in column 'V', while raw instrument numbers are seen in column 'U'.

Julian Day	Date	Hr	Tair	RH	WindV	WindD	StdDev	NetRad	SolRad	Albedo	SoilHF	SoilT1	SoilT2	SoilT3	Soil W	Ave	Rain	SWE	SnoD	Precip	Precip (rev)
59	2/28/2012 12:00	1200	-9.16	87.7	1.543	164.3	19.99	-3.924	0.14	0.886	2.616	0	-5.559	-5.29	0.044	17.82	0	0	-1.295	216.6	427.1
59	2/28/2012 13:00	1300	-8.81	86	1.528	182.9	15.16	0.139	0.19	0.883	1.891	0	-5.547	-5.29	0.044	17.82	0	0	-1.294	216.6	427.1
59	2/28/2012 14:00	1400	-7.76	81.9	1.394	182.9	17.65	-1.671	0.272	0.85	1.175	0	-5.52	-5.285	0.044	17.82	0	0	-1.3	216.6	427.1
59	2/28/2012 15:00	1500	-5.854	72.3	1.102	202.8	15.78	-11.93	0.335	0.835	0.555	0	-5.478	-5.272	0.044	17.82	0	0	-1.301	216.6	427.1
59	2/28/2012 16:00	1600	-6.809	74.9	0.705	196	12.74	-21.09	0.141	0.856	0.243	0	-5.426	-5.257	0.044	17.82	0	0	-1.298	216.6	427.1
59	2/28/2012 17:00	1700	-7.46	77.8	0.672	185.7	10.48	-19.43	0.1	0.846	0.21	0	-5.375	-5.236	0.044	17.82	0	0	-1.297	216.6	427.1
59	2/28/2012 18:00	1800	-8.1	81.8	0.563	163	22.04	-12.9	0.05	0.818	0.373	0	-5.33	-5.21	0.044	17.83	0	0	-1.3	216.7	427.2
59	2/28/2012 19:00	1900	-9.64	85	0.309	146.4	13.37	-20.67	0.008	0.743	0.623	0	-5.291	-5.181	0.044	17.83	0	0	-1.291	216.7	427.2
59	2/28/2012 20:00	2000	-11.85	88.5	0.73	85.4	23	-38.18	0	0	0.86	0	-5.265	-5.156	0.044	17.82	0	0	-1.296	216.8	427.3
59	2/28/2012 21:00	2100	-13.85	87.3	1.046	42.39	21.86	-30.52	0	0.101	1.585	0	-5.25	-5.132	0.044	17.82	0	0	-1.287	216.8	427.3
59	2/28/2012 22:00	2200	-9.97	84.7	0.997	103.6	11.65	-14.28	0	0.05	2.333	0	-5.246	-5.109	0.044	17.82	0	0	-1.288	216.8	427.3
59	2/28/2012 23:00	2300	-9.88	86.6	0.924	90.6	14.16	-16.97	0	0	2.511	0	-5.256	-5.095	0.044	17.83	0	0	-1.288	216.8	427.3
59	2/29/2012 0:00	2400	-10.29	87.7	1.282	101.9	9.68	-25.02	0	0	2.513	0	-5.267	-5.086	0.044	17.83	0	0	-1.287	216.8	427.3
60	2/29/2012 1:00	100	-10.5	85.4	1.241	99.3	16.44	-15.26	0	0.063	2.52	0	-5.276	-5.081	0.044	17.83	0	0	-1.29	216.8	427.3
60	2/29/2012 2:00	200	-10.25	90.9	1.478	124.9	11.31	-14.92	0	0.018	2.512	0	-5.282	-5.078	0.044	17.83	0	0	-1.284	216.9	427.4
60	2/29/2012 3:00	300	-11.28	89.8	1.341	116.8	14.39	-27.24	0	0.04	2.344	0	-5.285	-5.074	0.044	17.83	0	0	-1.283	216.9	427.4
60	2/29/2012 4:00	400	-10.95	88.2	1.463	117.9	11.62	-20.73	0	0	2.396	0	-5.285	-5.071	0.044	17.83	0	0	-1.284	216.9	427.4
60	2/29/2012 5:00	500	-11.3	89.8	1.084	133.4	16.24	-26.81	0	0	2.518	0	-5.287	-5.07	0.044	17.83	0	0	-1.289	216.9	427.4
60	2/29/2012 6:00	600	-11.84	91.6	1.144	142	23.95	-14.62	0	0.081	2.516	0	-5.289	-5.068	0.044	17.83	0	0	-1.288	217	427.5
60	2/29/2012 7:00	700	-10.85	90.5	2.113	134.6	14.44	-8.17	0	0	2.515	0	-5.29	-5.065	0.044	17.82	0	0	-1.283	217	427.5
60	2/29/2012 8:00	800	-10.81	88.8	2.524	136.4	13.94	-10.94	0	0	2.513	0	-5.295	-5.066	0.044	17.82	0	0	-1.283	217	427.5
60	2/29/2012 9:00	900	-10.93	87.6	2.282	139.3	17.35	-13.73	0.004	0.662	2.455	0	-5.297	-5.067	0.044	17.83	0	0	-1.285	217	427.5
60	2/29/2012 10:00	1000	-10.88	88	1.531	145.1	21.19	-10.39	0.027	0.925	2.196	0	-5.3	-5.069	0.044	17.82	0	0	-1.286	217	427.5
60	2/29/2012 11:00	1100	-9.96	82.5	3.248	126.8	16.15	-9.74	0.119	0.888	2.039	0	-5.296	-5.07	0.044	17.83	0	0	-1.286	217	427.5
60	2/29/2012 12:00	1200	-9.4	79.5	3.366	132.7	15.52	-30.74	0.174	0.85	1.793	0	-5.289	-5.071	0.044	17.82	0	0	-1.284	217	427.5
60	2/29/2012 13:00	1300	-8.85	76.8	3.105	138.4	16.23	-34.78	0.212	0.84	1.462	0	-5.277	-5.069	0.044	17.83	0	0	-1.286	217	427.5
60	2/29/2012 14:00	1400	-7.99	72.6	3.406	135.4	16.35	-44.01	0.297	0.855	1.073	0	-5.259	-5.066	0.044	17.83	0	0	-1.29	217	427.5
60	2/29/2012 15:00	1500	-7.19	67.45	3.537	136.1	18.27	-70.1	0.332	0.904	0.686	0	-5.235	-5.061	0.044	17.82	0	0	-1.292	217	427.5
60	2/29/2012 16:00	1600	-7.11	65.5	3.676	121.1	15.62	-71.6	0.288	0.917	0.627	0	-5.205	-5.053	0.044	17.83	0	0	-1.286	217	427.5
60	2/29/2012 17:00	1700	-7.09	64.08	3.418	121.7	15.2	-76.2	0.204	0.949	0.627	0	-5.172	-5.039	0.044	17.82	0	0	-1.285	217	427.5
60	2/29/2012 18:00	1800	-7.69	66.73	3.076	123.3	13.46	-65.58	0.106	0.978	0.799	0	-5.144	-5.023	0.044	17.82	0	0	-1.283	217	427.5
60	2/29/2012 19:00	1900	-10.04	77.1	2.279	117.2	13.43	-52.48	0.008	1.076	1.197	0	-5.126	-5.005	0.044	17.83	0	0	-1.28	217	427.5
60	2/29/2012 20:00	2000	-10.87	79.9	2.334	105.3	11.98	-53.46	0	0	1.623	0	-5.117	-4.99	0.044	17.83	0	0	-1.279	217	427.5
60	2/29/2012 21:00	2100	-10.96	81.6	2.516	106.1	12.69	-48.42	0	0	2.174	0	-5.117	-4.977	0.044	17.83	0	0	-1.279	217	427.5
60	2/29/2012 22:00	2200	-11.12	82.9	3.051	109.2	11.73	-44.81	0	0	2.718	0	-5.129	-4.968	0.044	17.83	0	0	-1.279	217	427.5
60	2/29/2012 23:00	2300	-11.68	80.3	3.024	108.9	11.99	-50.36	0	0	3.115	0	-5.15	-4.966	0.044	17.82	0	0	-1.279	217	427.5
60	3/1/2012 0:00	2400	-12.27	79	3.001	111.8	11.67	-46.06	0	0	3.408	0	-5.178	-4.97	0.044	17.82	0	0	-1.279	217	427.5
61	3/1/2012 1:00	100	-12.6	78	3.198	111.7	12.12	-39.17	0	0	3.716	0	-5.208	-4.978	0.044	17.83	0	0	-1.278	217	427.5
61	3/1/2012 2:00	200	-12.93	77.3	3.173	112.5	12.66	-51.6	0	0	4.091	0	-5.242	-4.989	0.044	17.83	0	0	-1.278	217	427.5
61	3/1/2012 3:00	300	-13.05	75.9	3.241	112.1	11.93	-56.65	0	0	4.315	0	-5.28	-5.005	0.044	17.82	0	0	-1.277	217	427.5
61	3/1/2012 4:00	400	-13.89	79.4	3.523	113.9	11.79	-56.75	0	0	4.734	0	-5.319	-5.021	0.044	17.82	0	0	-1.277	217.1	427.6
61	3/1/2012 5:00	500	-14.32	81.2	4.236	111.1	13.07	-57.96	0	0	5.313	0	-5.362	-5.04	0.044	17.82	0	0	-1.277	217	427.5
61	3/1/2012 6:00	600	-14.78	80.6	3.691	115.7	12.17	-57.06	0	0	6.01	0	-5.418	-5.064	0.044	17.81	0	0	-1.277	217.1	427.6
61	3/1/2012 7:00	700	-15.18	79.7	3.933	109.8	13.78	-57.35	0	0	6.343	0	-5.484	-5.094	0.044	17.82	0	0	-1.28	217	427.5
61	3/1/2012 8:00	800	-15.66	80.2	3.601	118.7	13.76	-55.86	0	0	6.518	0	-5.549	-5.128	0.044	17.82	0	0	-1.277	217.1	427.6
61	3/1/2012 9:00	900	-16.14	79.2	3.399	128.4	15.53	-53.57	0.007	0.847	6.437	0	-5.61	-5.166	0.044	17.82	0	0	-1.279	217.1	427.6

Grum Air Temperature - February 2012



Grum Cumulative Precipitation - February 2012

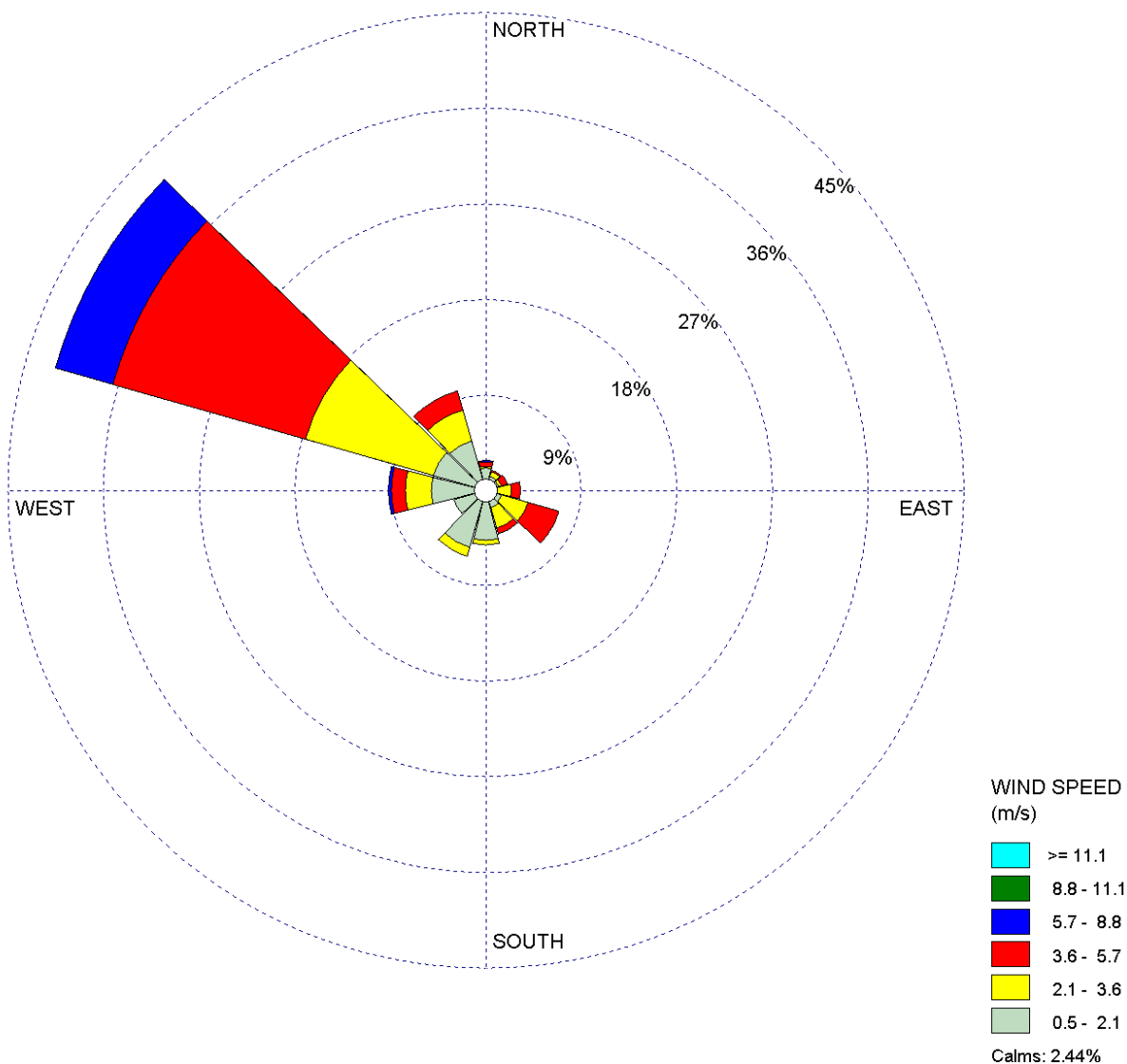


WIND ROSE PLOT:

Station #2 - Grum Climate Station
Faro, YT

DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:

DATA PERIOD:

Start Date: 2/1/2012 - 00:00
End Date: 3/1/2012 - 00:00

COMPANY NAME:

Denison Environmental Services

MODELER:

Tracey Parkin

CALM WINDS:

2.44%

TOTAL COUNT:

697 hrs.

AVG. WIND SPEED:

2.81 m/s

DATE:

3/14/2012

PROJECT NO.:



9 – GEOTECHNICAL MONITORING

Faro Pit Geotechnical

Photo Log:
Faro Pit Southeast Wall



Photo 1: Faro Pit – January 18, 2012, Southeast Wall

Photo Log:
Faro Pit Southeast Wall



Photo 2: Faro Pit – February 14, 2012, Southeast Wall

Grum Pit Geotechnical



Top of Pipe Elevations (masl)	
SRK09-GSA (GS-1A)	SRK09-GSB (GS-1B)
1230.00	1229.98

Well Dry
Well Frozen

[illegible]

Water Elevations - Grum Slot Cut Piezometers

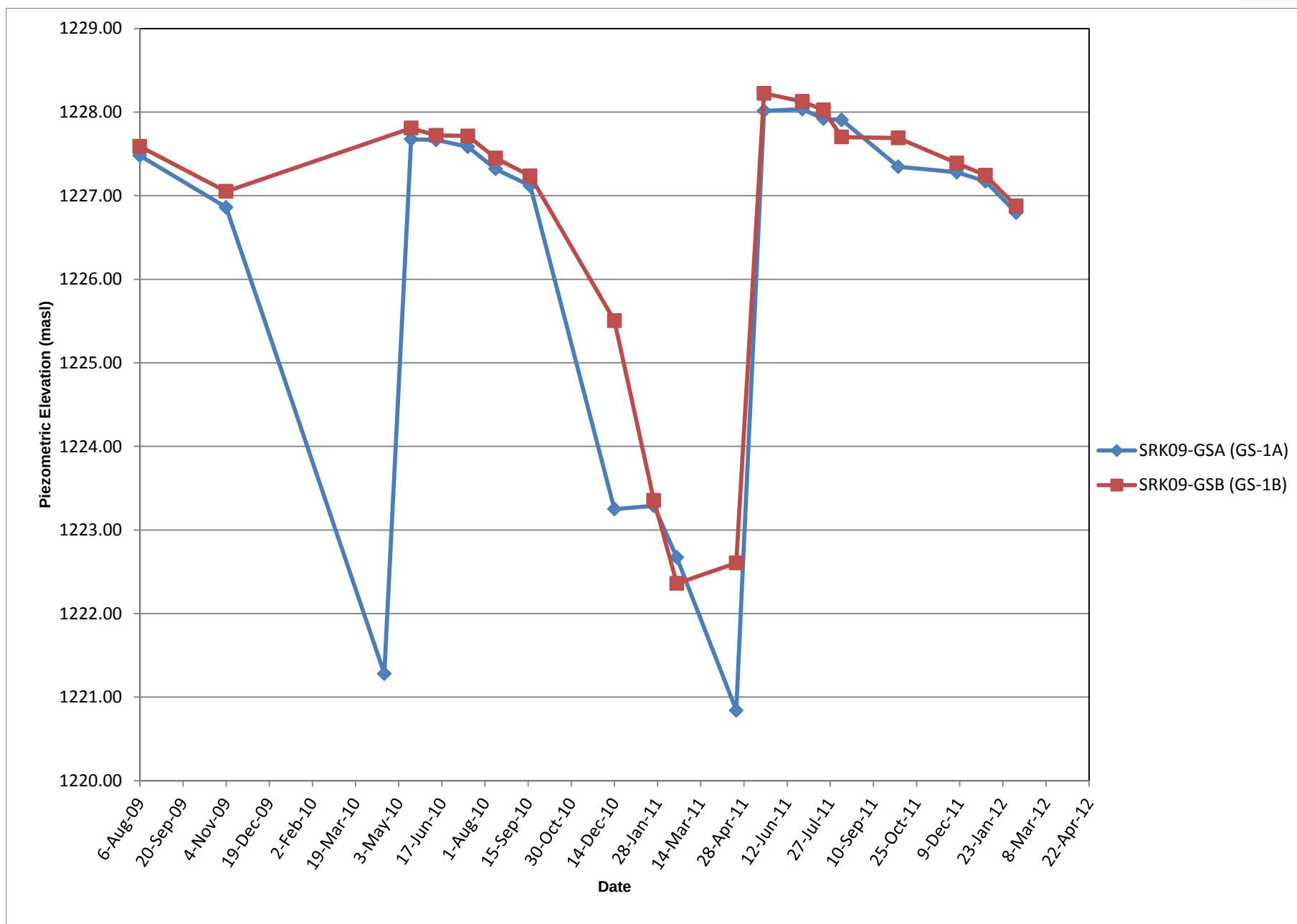


Photo Log:
Grum Pit Southeast Wall



Photo 1: Grum Pit – January 18, 2012, Southeast Wall

Photo Log:
Grum Pit Southeast Wall



Photo 2: Grum Pit – February 14, 2012, Southeast Wall

Vangorda Pit Geotechnical

Photo Log:
Vangorda Pit Walls



Photo 1: Vangorda Pit – January 18, 2012, Southwest Wall

Photo Log:
Vangorda Pit Walls



Photo 2: Vangorda Pit – January 18, 2012, Northwest/Northeast Walls

Photo Log:
Vangorda Pit Walls



Photo 3: Vangorda Pit – February 14, 2012, Southwest Wall

Photo Log:
Vangorda Pit Walls



Photo 4: Vangorda Pit – February 14, 2012, Northwest/Northeast Walls

Structural Facilities Inspections

**Facility Inspection Report
TMA**

TMA Report Form



Month: February

Regular Monthly Inspection

Page 1 of 5

OPERATING SPILLWAYS & CONTROL STRUCTURES		Schedule*	Status**	Action Item	Photos Taken	Comments (Condition and Action Recommended)						
Rose Creek Diversion/Canal Dyke		M	clear	no	no							
Backslope of Rose Creek Diversion		M	clear	no	no							
Downvalley Treatment Plant		M	clear	no	no							
Polishing Pond (water level)		M	clear	no	no	Elevation taken on February 27, 2012 - 1028.651 masl.						
Polishing Pond Spillway		M	clear	no	no							
Intermediate Pond Spillway		M	clear	no	no							
Intermediate Pond (water level)		M	clear	no	no	Elevation taken on February 27, 2012 - 1045.481 masl.						
Original Tailings Impoundment		M	clear	no	no							
Secondary Impoundment		M	clear	no	no							
Series of Step-down Ponds		M	clear	no	no							
Lower Northwall Interceptor Diversion		M	clear	no	no							
Lower North Fork Rose Creek		M	clear	no	no	Monthly photo taken on February 14, 2012.						
ETA Emergency Tailings Area / SIS		M	clear	no	no							

DAMS & BERMS		Schedule*	Crest		Upstream Slope		Downstream Slope			Action Item	Photos	Comments
			Physical Change	Veg. Status	Physical Change	Veg. Status	Physical Change	Veg. Status	Seepage			
Intermediate Dam		M	none	< 1 m	none	< 1 m	none	< 1 m	none	no	no	Snow covered. No new sluffs or slumps.
Cross Valley Dam		M	none	< 1 m	none	< 1 m	none	< 1 m	clear	no	no	Snow covered. No new sluffs or slumps.

INFRASTRUCTURE		Schedule*	Status	Action Item	Photos Taken	Comments (Condition and Action Recommended)						
SECURITY	Lower Guardhouse Creek Culvert- GDHSCRK	M	clear flow	no	no							
	Upper Guardhouse Creek Culvert - GDHSCRK	M	clear flow	no	no							
	ETA Culvert - FCS2	M	clear flow	no	no							
	Northwall Interceptor Diversion Upper Culvert	M	clear flow	no	no							
	Northwall Interceptor Diversion Lower Culvert	M	clear flow	no	no							
	Culverts in Gravel Pit	M	clear flow	no	no							
	Culvert by Downvalley Treatment Plant	M	clear flow	no	no							
	X11 Culvert	M	clear flow	no	no							
	X12 Culvert	M	clear flow	no	no							
	Weir 3 Culvert	M	clear flow	no	no							
ROADS	Old Pumphouse Security Check	M	secure	no	no							
	Freshwater Pumphouse below X2	M	secure	no	no							
	Access Gate - Entrance Lower Road Downvalley	M	secure	no	no							
	Access Gate#2 - Secondary Impoundment Entrance	M	secure	no	no							
	Access Gate#3 - S-Wells Entrance	M	secure	no	no							
	Access Gate#4 (T.B.A.)	M				Not yet in place.						
	TMA Access Roads	M	other	no	no							
	Upper Road Tailings Area	M	other	no	no							
	Lower Road Tailings Area	M	other	no	no							
	Road to X14	M	other	no	no							
	Access to Old Pumphouse Culverts	M	other	no	no							

Issued by:

DES

Issued on: July 16, 2009
Last printed: 12/03/2012

Month: February

Regular Monthly Inspection

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SIGNS	Slow Down Dangerous Curve Sign on Mine Road	M	good	no	no	
	Danger Do Not Enter Sign into ETA / SIS	M	good	no	no	
	Danger Do Not Enter Sign into S-Wells	M	good	no	no	
	Danger Do Not Enter Sign into Old Pumphouse	M	good	no	no	
	Do Not Contaminate Drinking Water Sign Mine Road	M	good	no	no	
	Moose Management Sign in Gravel Pit	M	good	no	no	
	Signs Heading Down Valley (No Hunting, Moose Management)	M	good	no	no	
	Do Not Enter Sign Entrance Lower Road Downvalley	M	good	no	no	
	Do Not Enter Sign Exit Lower Road Downvalley	M	good	no	no	
	Do Not Enter Sign Secondary Impoundment Entrance	M	good	no	no	
	Do Not Enter Sign X5 Discharge	M	good	no	no	

OBSERVATION NOTES:

Inspected by: Noella Gardiner & Ben Bekk

Action items reported (sign and date):

Date: February 27th, 2012

Environmental Coordinator review (sign and date):

* Schedule Legend

Annual - A
Monthly - M (during snow free months)
Quarterly - Q2 (month of the Quarter)
Semi-Annual - S

**** Status notes are specific terms refer to Inspection Instructions.**

Facility Inspection Report
Faro Pit & Wasterock

Faro Pit & Wasterock Report Form



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CONTROL STRUCTURES		Schedule*	Status**	Action Item	Photos Taken	Comments (Condition and Action Recommended)					
Faro Pit (level)		M	clear	no	no						
Faro Valley Interceptor Ditch		Q	clear	no	no	Water frozen and snow has drifted in.					
Upper North Wall Interceptor Diversion		Q	clear	no	no						
North Fork Rock Drain		M	clear	no	no						

DIVERSIONS & BERMS		Schedule*	Crest		Upstream Slope		Downstream Slope			Action Item	Photos	Comments
			Physical Change	Veg. Status	Physical Change	Veg. Status	Physical Change	Veg. Status	Seepage			
Faro Creek Diversion - North Pit Wall		M	rip-rap	< 1 m	none	< 1 m	none	< 1 m	clear	no	no	No new cracks or slumps.

INFRASTRUCTURE		Schedule*	Status	Action Item	Photo Taken	Comments					
Top of Faro Waste Dump Weather Station - Station #1		M	secure	no	no						
PUMPS	Zone II Pit / Pump	M	Off	no	no	Elevation taken on February 27, 2012 - 1110.325 masl (Old Zone II). New Zone II not measured since November.					
	Faro Pit Pump	M	Off	no	no						
	S-Wells Pump (AMP#5)	M	Operating	no	no						
ROADS	Faro Diversion Access Road	M	ok	no	no						
	Faro Pit Access Road	M	ok	no	no						
	Haul Road	M	ok	no	no						
STABILITY	Faro Waste Rock Dumps NE	M	Inspected - OK	no	no						
	Faro Waste Rock Dumps NW	M	Inspected - OK	no	no						
	Faro Waste Rock Dumps SE	M	Inspected - OK	no	no						
	Faro Water Rock Dumps SW	M	Inspected - OK	no	no						
	Rose Creek Gravel Pit	M	Inspected - OK	no	no						
SIGNS	Yield Sign - Rose Creek Gravel Pit	M	good	yes	no	Yield sign is missing					
	Caution Overhead Powerline Signage for Faro Pit Area	M	good	no	no						
	Garbage Signs at Dump	M	good	no	no						
	Main Entrance Sign	M	good	no	no						
	Yield Sign Access Road to NW Dumps	M	good	no	no						
	Generator Building for S-Wells Haul Road	M	good	no	no						
	Speed Limit Signage on Haul Road	M	good	no	no						

OBSERVATION NOTES:

Inspected by: Noella Gardiner & Chantel Fulton

Date: February 27th, 2012

Action items reported (sign and date):

Environmental Coordinator review (sign and date):

*** Schedule Legend**

Annual - A
Monthly - M (during snow free months)
Quarterly - Q2 (month of the Quarter)
Semi-Annual - S

** Status notes are specific terms refer to Inspection Instructions.

Issued by:

DES

Issued on: July 16, 2009
Last printed: 12/03/2012

Month: February

Regular Monthly Inspection

CONTROL STRUCTURES	Schedule*	Status**	Action Item	Photos Taken	Comments (Condition and Action Recommended)
V15 Ditch	M	clear	no	no	
Freshwater Pond for Water Treatment Plant - (old V24)	M	clear	no	no	
CPD Spillway	M	clear	no	no	
Grum Till Dump	M	clear	no	no	
Sludge Pond Enbankment	M	clear	no	no	
Grum Waste Rock Dump	M	clear	no	no	
Sheep Pad Sediment Ponds	M	clear	no	no	
Moose Pond Area (AMP#4)	M	clear	no	no	
Ore Transfer Pad	M	clear	no	no	
Grum Pit (level)	M	clear	no	yes	Elevation taken February 27, 2012 - 1211.714 masl; Monthly photo taken on February 14, 2012.
Grum Pit Interceptor Ditch	M	clear	no	no	
Vangorda Clarification Pond	M	clear	no	no	

DIVERSIONS & BERMS	Schedule	Crest		Upstream Slope		Downstream Slope			Action Item	Photos	Comments
		Physical Change	Veg. Status	Physical Change	Veg. Status	Physical Change	Veg. Status	Seepage			
Grum Access Road Berm	M	none	> 1 m	none	> 1 m	none	> 1 m	none	no	no	

INFRASTRUCTURE		Schedule	Status	Action Item	Photo Taken	Comments
SECURITY	Weather Station by Vangorda Treatment Plant - Station #2	M	secure	no	no	
	Grum Shop and Dry (Town of Faro)	M	secure	no	no	
	Gate (to Grum)	M	secure	no	no	
	Grum Adit - sealed off	M	secure	no	no	
CULVERTS	Culvert Below Access Water Treatment Plant	M	clear flow	no	no	
	Culverts Above Sheep Pad Pond	M	clear flow	no	no	
	Slotcut Culvert	M	clear flow	no	no	
	Culvert at Access to Grum Dump	M	clear flow	no	no	
	Access to Claification Sludge Cells Culvert	M				No access. Too much snow.
	Access to V25 Culvert	M	clear flow	no	no	
	Grum Inteceptor Ditch Culverts	M	clear flow	no	no	
	V2A Culvert	M	clear flow	no	no	
	CPD Culvert#1	M	clear flow	no	no	
	CPD Culvert#2	M	clear flow	no	no	
	Below V15 Culvert	M	clear flow	no	no	
SIGNS	Grum Access Road Signs (No Hunting Sign, Moose Management)	M	good	no	no	
	Intersection Sign South Access to Haul Road	M	good	no	no	
	Grum Substation and Overhead High Voltage Hazard Sign	M	good	no	no	
	Speed Limit Sign Haul Road	M	good	no	no	
	Caution High Voltage Sign by V25BSP	M	good	no	no	
	Overhead Powerline Sign Grum Interceptor Ditch	M	good	no	no	

OBSERVATION NOTES

Inspected by: Noella Gardiner & Chantel Fulton

Date: February 28th, 2012

Action items reported (sign and date):

Environmental Coordinator review (sign and date):

* Schedule Legend

Annual - A
Monthly - M (during snow free months)
Quarterly - Q2 (month of the Quarter)
Semi-Annual - S

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INFRASTRUCTURE		Schedule	Status	Action Item	Photo Taken	Comments
STABILITY	Till Covers	M	Inspected - OK	no	no	
	Vangorda Test Pad Covers Area	M	Inspected - OK	no	no	
	Vangorda Waste Rock	M	Inspected - OK	no	no	
	Vangorda Overburden Stockpile	M	Inspected - OK	no	no	
SECURITY	Vangorda Substation	M	secure	no	no	
	Step Down Station for Barge	M	secure	no	no	
	Old Pumphouse	M	secure	no	no	
	Vangorda Gate	M	secure	no	no	
CULVERTS	Below V25BSP Culvert	M	clear flow	no	no	
	Vangorda Creek Culvert	M	clear flow	no	no	
	Culvert into Drop Box	M	clear flow	no	no	
	Culvert from Drop Box into Vangorda Creek	M	clear flow	no	no	
	Little Creek Dam Culvert	M	clear flow	no	no	
	Series of Road Culverts above Vangorda Pit	M	clear flow	no	no	
SIGN	Caution Overhead Powerline Sign Haul Road	M	good	no	no	
	Danger High Voltage Sign into Swimming Hole	M	good	no	no	

Environmental Coordinator review (sign and date):

**** Status notes are specific terms refer to Inspection Instructions.**

10 – SPECIAL PROJECTS

FIELD MEMORANDUM

TO: Kevin Ramsay, Environmental Supervisor
DATE: March 2nd, 2012
FROM: Tracey Parkin, Senior Environmental Technologist
SUBJECT: 2012 Snow Survey Results – February 22nd

Background

Snow pack monitoring was added to the scope of the Care and Maintenance Contract as of February 2010. Snow survey data is to be collected and compiled twice per year, though assessment of the monitoring data was specifically excluded from the scope.

Meteorological stations located on the Faro Waste Rock Dump and northeast of the Grum Overburden Pile have snow monitoring equipment installed. In addition, snow depth gauges remain on the north, south, east, and west aspects of the Faro Waste Rock Dump and on the south and west aspects of the Vangorda Waste Rock Dump from historic snow pack monitoring that was conducted as part of the Cover Trials testing.

In addition to the snow depth gauges and meteorological station sensors, snow courses are also included as part of the monitoring program. Data from the snow monitoring program provides information for catchment run-off and required water pumping management estimations. The program includes two monitoring events, each with five snow courses, snow gauge readings from the gauges installed on the Faro and Vangorda Waste Rock Dumps, and meteorological station snow depth measurements (Figures 1-5). This field memo reports results for the first of the two snow survey events in 2012, which took place on February 22nd.

Results

The results of the snow course monitoring, readings of snow depth gauges, and readings of meteorological station depth gauges are attached (Tables 1 to 7). A photo log of the snow courses and snow depth gauges on the respective dump slope aspects is also attached (Photos 1 to 13). Monthly precipitation at the meteorological stations is reported monthly to YG as part of the Monthly Environmental Monitoring reports and is therefore not included in this memo.

Snow Courses Methods and Comments

The snow survey equipment used for the February 2012 snow surveys was the same as that used previously in the 2010 and 2011 snow surveys. This equipment includes a digital scale for measuring the weights of the snow cores, with the weight report in kilograms (and not calibrated for snow water equivalent (SWE)). For this reason, SWE was calculated rather than measured for the February 2012 snow surveys.

**Table 1: Monitoring Site Locations - Snow Survey
February 22, 2012**

Station ID	Northing	Easting	Elevation
Faro Dump - Snow Course - Flat (Plateau, Hard pack)			
FS-SC-H1A-12	6913801	584126	1220
FS-SC-H2A-12	6913801	584131	1220
FS-SC-H3A-12	6913801	584133	1219
FS-SC-H4A-12	6913802	584138	1223
FS-SC-H5A-12	6913800	584142	1223
FS-SC-H6A-12	6913797	584145	1224
FS-SC-H7A-12	6913797	584147	1225
FS-SC-H8A-12	6913794	584151	1225
FS-SC-H9A-12	6913792	584156	1222
FS-SC-H10A-12	6913790	584160	1225
Faro Dump - Snow Course - "Bubble" Zone			
FS-SC-B1A-12	6913739	583892	1216
FS-SC-B2A-12	6913738	583896	1217
FS-SC-B3A-12	6913738	583896	1219
FS-SC-B4A-12	6913736	583901	1221
FS-SC-B5A-12	6913732	583904	1221
FS-SC-B6A-12	6913730	583909	1222
FS-SC-B7A-12	6913727	583914	1221
FS-SC-B8A-12	6913722	583916	1221
FS-SC-B9A-12	6913720	583919	1219
FS-SC-B10A-12	6913714	583922	1220
Faro Side - Snow Course - Forested (Spruce Forest, Mid-Elevation)			
FS-SC-F1A-12	6914215	581850	1113
FS-SC-F2A-12	6914218	581849	1115
FS-SC-F3A-12	6914220	581848	1115
FS-SC-F4A-12	6914223	581848	1117
FS-SC-F5A-12	6914229	581849	1117
FS-SC-F6A-12	6914232	581849	1118
FS-SC-F7A-12	6914236	581850	1118
FS-SC-F8A-12	6914239	581850	1118
FS-SC-F9A-12	6914241	581852	1118
FS-SC-F10A-12	6914246	581855	1118
Faro Dump - Snow Depth Gauges - Four Aspects of Dump (At road below gauges)			
FD-EA	6913848	584800	1162
FD-NA	6914490	583693	1167

**Table 1: Monitoring Site Locations - Snow Survey
February 22, 2012**

Station ID	Northing	Easting	Elevation
FD-SA	6913337	584290	1158
FD-WA	6914289	583415	1163
Faro Dump - Meteorological Station			
Faro Meteorological Station	6913934	584018	1228
Vangorda Dump - Snow Course - Flat (Plateau, Hard pack)			
VS-SC-H1A-12	6902541	593853	1174
VS-SC-H2A-12	6902541	593850	1175
VS-SC-H3A-12	6902541	593846	1174
VS-SC-H4A-12	6902542	593844	1176
VS-SC-H5A-12	6902544	593839	1175
VS-SC-H6A-12	6902547	593835	1175
VS-SC-H7A-12	6902545	593830	1173
VS-SC-H8A-12	6902546	593827	1174
VS-SC-H9A-12	6902546	593822	1174
VS-SC-H10A-12	6902545	593817	1175
Vangorda Dump - Snow Course - "Bubble" Zone			
VS-SC-B1A-12	6902476	593823	1180
VS-SC-B2A-12	6902476	593824	1177
VS-SC-B3A-12	6902476	593828	1176
VS-SC-B4A-12	6902476	593831	1175
VS-SC-B5A-12	6902476	593837	1177
VS-SC-B6A-12	6902475	593841	1177
VS-SC-B7A-12	6902474	593844	1177
VS-SC-B8A-12	6902474	593848	1178
VS-SC-B9A-12	6902474	593852	1175
VS-SC-B10A-12	6902473	593853	1177
Vangorda Dump - Snow Depth Gauges - Two Aspects of Dump (At road below gauges)			
VD-SA	6902565	593211	1116
VD-WA	6902803	593653	1162
Vangorda Dump - Meteorological Station			
Grum Meteorological Station	6904837	593215	1281

* GPS Waypoints (Datum: NAD 83)

**Table 2: Faro Waste Rock Dump - Slopes -
Snow Depth Gauges February 22, 2012**

Table 2a: Faro Dump - South Aspect

Site	Depth (m)	Comment
FD-SA1	0.29	Slightly Angled Post.
FD-SA2	0.21	Slightly Angled Post.
FD-SA3	0.37	
FD-SA4	0.29	
FD-SA5	0.24	Slightly Angled Post.

Table 2b: Faro Dump - East Aspect

Site	Depth (m)	Comment
FD-EA1	0.78	
FD-EA2	0.80	
FD-EA3	0.80	
FD-EA4	0.60	
FD-EA5	0.80	

Table 2c: Faro Dump - North Aspect

Site	Depth (m)	Comment
FD-NA1	0.60	
FD-NA2	0.69	
FD-NA3	0.68	
FD-NA4	0.67	
FD-NA5	0.68	

Table 2d: Faro Dump - West Aspect

Site	Depth (m)	Comment
FD-WA1		Snow Gauge Down - No Reading
FD-WA2	0.42	
FD-WA3	0.42	
FD-WA4	0.44	
FD-WA5	0.43	

Note: Site snow gauge numbering increases with slope elevation increase.

**Table 3: Faro Waste Rock Dump - Snow
Courses – February 22, 2012**

Table 3a: Faro Dump Snow Course, Bubble Zone

Station	Snow Depth (cm)		Core Length (cm)	Weight Tube & Core (kg)	Weight Tube Only (kg)	Snow Density (g/cm ³)	Snow Water Equiv. (cm)	Density %	Comments
	Plug	No plug							
FS-SC-B1A-12	112	111	97	1.78	1.38	0.31	29.86	26.90%	
FS-SC-B2A-12	108	107.5	95	1.76	1.38	0.30	28.37	26.39%	
FS-SC-B3A-12	110	109.5	101	1.81	1.38	0.32	32.10	29.31%	
FS-SC-B4A-12	100	98	93	1.73	1.38	0.28	26.13	26.66%	
FS-SC-B5A-12	123	121	113	1.84	1.38	0.30	34.34	28.38%	
FS-SC-B6A-12	136	134	129	1.91	1.38	0.31	39.56	29.52%	
FS-SC-B7A-12	24	23	21	1.44	1.38	0.21	4.48	19.47%	
FS-SC-B8A-12	47	45	40	1.50	1.38	0.22	8.96	19.91%	
FS-SC-B9A-12	32	30	23	1.45	1.38	0.23	5.23	17.42%	
FS-SC-B10A-12	38	37	29	1.48	1.38	0.26	7.46	20.17%	

Note: Bolded "Weight Tube Only" Values indicate stations at which the weight of the tube was measured.

**Table 3: Faro Waste Rock Dump - Snow
Courses – February 22, 2012**

Table 3b: Faro Dump Snow Course, Flat (Plateau, Hard pack)

Station	Snow Depth (cm)		Core Length (cm)	Weight Tube & Core (kg)	Weight Tube Only (kg)	Snow Density (g/cm ³)	Snow Water Equiv. (cm)	Density %	Comments
	Plug	No plug							
FS-SC-H1A-12	53	52	41	1.53	1.38	0.27	11.20	21.53%	
FS-SC-H2A-12	50	49	29	1.50	1.38	0.31	8.96	18.28%	
FS-SC-H3A-12	44	42	26	1.47	1.38	0.26	6.72	16.00%	
FS-SC-H4A-12	38	37	29	1.47	1.38	0.23	6.72	18.16%	
FS-SC-H5A-12	44	43	15	1.45	1.38	0.35	5.23	12.15%	
FS-SC-H6A-12	36	35	31	1.47	1.38	0.22	6.72	19.19%	
FS-SC-H7A-12	34	33	22	1.46	1.38	0.27	5.97	18.10%	
FS-SC-H8A-12	41	40	22.5	1.46	1.38	0.27	5.97	14.93%	
FS-SC-H9A-12	43	42.5	17	1.44	1.38	0.26	4.48	10.54%	
FS-SC-H10A-12	40	39	22	1.46	1.38	0.27	5.97	15.31%	

Note: Bolded "Weight Tube Only" values indicate stations at which the weight of the tube was measured.

**Table 4: Faro Side - Snow Course –
February 22, 2012**



Table 4: Faro Side Snow Course, Mid-Elevation Spruce Forest

Station	Snow Depth (cm)		Core Length (cm)	Weight Tube & Core (kg)	Weight Tube Only (kg)	Snow Density (g/cm ³)	Snow Water Equiv. (cm)	Density %	Comments
	Plug	No plug							
FS-SC-F1A-12	47	46	29	1.48	1.38	0.26	7.46	16.23%	
FS-SC-F2A-12	57	56.5	45	1.52	1.38	0.23	10.45	18.50%	
FS-SC-F3A-12	51	50	42	1.50	1.38	0.21	8.96	17.92%	
FS-SC-F4A-12	63	62.5	35	1.50	1.38	0.26	8.96	14.33%	
FS-SC-F5A-12	61	60	45	1.51	1.38	0.22	9.70	16.17%	
FS-SC-F6A-12	63	62	42	1.51	1.38	0.23	9.70	15.65%	
FS-SC-F7A-12	56	55	42	1.51	1.38	0.23	9.70	17.64%	
FS-SC-F8A-12	65	64	52	1.54	1.38	0.23	11.94	18.66%	
FS-SC-F9A-12	64	62	52	1.53	1.38	0.22	11.20	18.06%	
FS-SC-F10A-12	60	57	52	1.52	1.38	0.20	10.45	18.33%	

Note: Bolded "Weight Tube Only" values indicate stations at which the weight of the tube was measured.

Table 5: Vangorda Waste Rock Dump - Slopes - Snow Depth Gauges February 22, 2012

Table 5a: Vangorda Dump - South Aspect

Site	Depth (m)	Comment
VD-SA1	1.35	
VD-SA2		Above Snow Gauge – No Reading
VD-SA3		Snow Gauge Down - No Reading
VD-SA4	0.27	
VD-SA3	0.27	

Table 5b: Vangorda Dump - West Aspect

Site	Depth (m)	Comment
VD-WA1	0.70	
VD-WA2	0.40	
VD-WA3	0.27	
VD-WA4	0.36	
VD-WA5	0.83	

Note: Site snow gauge numbering increases with slope elevation increase.

**Table 6: Vangorda Waste Rock Dump - Snow
Courses – February 22, 2012**

Table 6a: Vangorda Dump Snow Course, Bubble Zone

Station	Snow Depth (cm)		Core Length (cm)	Weight Tube & Core (kg)	Weight Tube Only (kg)	Snow Density (g/cm ³)	Snow Water Equiv. (cm)	Density %	Comments
	Plug	No plug							
VS-SC-B1A-12	6	5	6	1.41	1.38	0.37	2.24	44.79%	
VS-SC-B2A-12									No Snow. Bare Rock Exposed.
VS-SC-B3A-12	2	1.5	1	1.39	1.38	0.75	0.75	49.76%	
VS-SC-B4A-12									No Snow. Bare Rock Exposed.
VS-SC-B5A-12									No Snow. Bare Rock Exposed.
VS-SC-B6A-12	22	21.5	19	1.45	1.38	0.28	5.23	24.30%	
VS-SC-B7A-12									No Snow. Bare Rock Exposed.
VS-SC-B8A-12	36	35	29.5	1.48	1.38	0.25	7.46	21.33%	
VS-SC-B9A-12	8	7	7	1.40	1.38	0.21	1.49	21.33%	
VS-SC-B10A-12									No Snow. Bare Rock Exposed.

Note: Bolded "Weight Tube Only" values indicate stations at which the weight of the tube was measured.

**Table 6: Vangorda Waste Rock Dump - Snow
Courses – February 22, 2012**

Table 6b: Vangorda Dump Snow Course, Flat (Plateau, Hard pack)

Station	Snow Depth (cm)		Core Length (cm)	Weight Tube & Core (kg)	Weight Tube Only (kg)	Snow Density (g/cm ³)	Snow Water Equiv. (cm)	Density %	Comments
	Plug	No plug							
VS-SC-H1A-12	26	25.5	25.5	1.46	1.38	0.23	5.97	23.42%	
VS-SC-H2A-12	20	19	18	1.45	1.38	0.29	5.23	27.50%	
VS-SC-H3A-12	7	7	6	1.41	1.38	0.37	2.24	31.99%	
VS-SC-H4A-12	8	7	7	1.40	1.38	0.21	1.49	21.33%	
VS-SC-H5A-12	24	23	23	1.50	1.38	0.39	8.96	38.95%	
VS-SC-H6A-12	13	12	12	1.43	1.38	0.31	3.73	31.10%	
VS-SC-H7A-12	13	12	12	1.42	1.38	0.25	2.99	24.88%	
VS-SC-H8A-12	12	11	11	1.41	1.38	0.20	2.24	20.36%	
VS-SC-H9A-12	5	4	3	1.40	1.38	0.50	1.49	37.32%	
VS-SC-H10A-12	9	8	6	1.42	1.38	0.50	2.99	37.32%	

Note: Bolded "Weight Tube Only" values indicate stations at which the weight of the tube was measured.

**Table 7: Climate Station Snow Depth Readings –
February 22, 2012**

Weather Station	Snow Depth (cm)
Faro Waste Rock Dump	22.9
Northeast of Grum Overburden	21.0

*As measured at meteorological station depth gauges

Photo Log: Snow Surveys February 22, 2012



Photo 1: Faro Side Snow Course – Spruce Forest (February 23, 2012)



Photo 2: Faro Waste Rock Dump Snow Course – Plateau, Hard Pack (February 23, 2012)

Photo Log: Snow Surveys February 22, 2012



*Photo 5: Faro Waste Rock Dump Snow Course – “Bubble” Zone
(February 23, 2012)*



*Photo 6: Vangorda Waste Rock Dump Snow Course – Plateau, Hard Pack
(February 23, 2012)*

Photo Log: Snow Surveys
February 22, 2012



*Photo 7: Vangorda Waste Rock Dump Snow Course – Plateau, Hard Pack
(February 23, 2012)*



*Photo 8: Faro Waste Rock Dump Snow Depth Gauges – North Aspect
(February 22, 2012)*

Photo Log: Snow Surveys February 22, 2012



*Photo 9: Faro Waste Rock Dump Snow Depth Gauges – South Aspect
(February 22, 2012)*



*Photo 10: Faro Waste Rock Dump Snow Depth Gauges – East Aspect
(February 22, 2012)*

Photo Log: Snow Surveys February 22, 2012



*Photo 11: Faro Waste Rock Dump Snow Depth Gauges – West Aspect
(February 22, 2012)*



*Photo 12: Vangorda Waste Rock Dump Snow Depth Gauges – South Aspect
(February 22, 2012)*

Photo Log: Snow Surveys February 22, 2012



*Photo 13: Vangorda Waste Rock Dump Snow Depth Gauges – West Aspect
(February 22, 2012)*

**Figure 1 – Faro Snow Monitoring Locations
February 22, 2012**



**Figure 2 – Vangorda Snow Monitoring Locations
February 22, 2012**



**Figure 3 – Faro Dump Snow Survey Courses
February 22, 2012**



**Figure 4 – Faro Side Snow Survey Course
February 22, 2012**



**Figure 5 – Vangorda Dump Snow Survey Courses
February 22, 2012**

