[redacted]

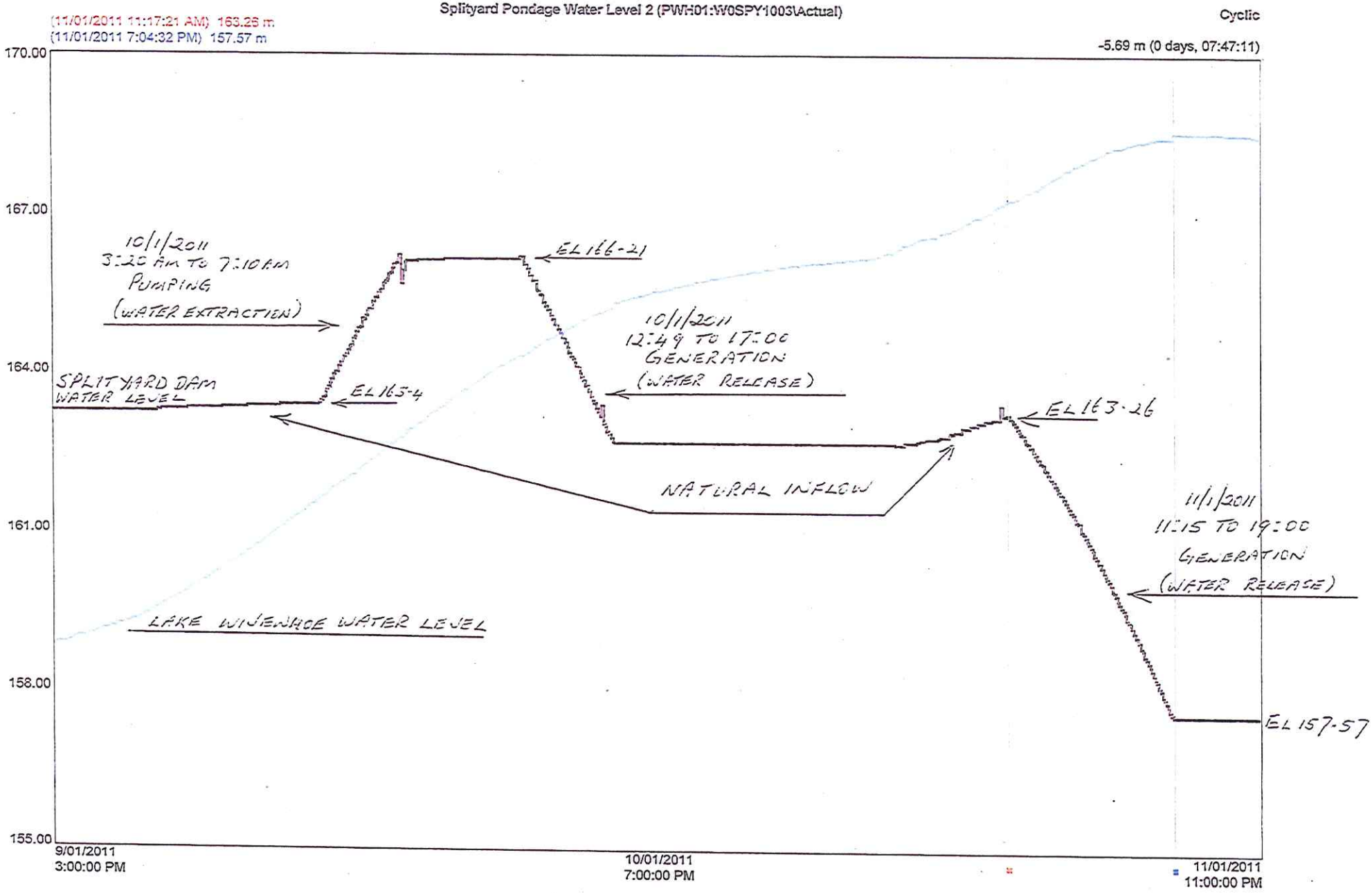
om: [redacted]
Sent: Wednesday, 2 February 2011 9:04 AM
To: [redacted]
Subject: Splityard and Wivenhoe with manual annotations.PDF - Adobe Reader

Attachments: Splityard and Wivenhoe with manual annotations.PDF

Splityard and Wivenhoe with ma...

Dave, the attached shows all movements of water (one pump & two generate runs) over the period of the flood event, with annotations showing time & levels etc. I do have the raw copy of each of these where I have printed out the same graph but with the cursors on the start & stop times of each runs; I used these to provide the information for the annotations on this sheet.
Regards, Trev

IndustrialSQL Server: Trend



[redacted]

. .om: [redacted]
Sent: Wednesday, 2 February 2011 9:40 AM
To: [redacted]
Subject: Emailing: Splityard to Wiv water volume relationships

Attachments: Splityard to Wiv water volume relationships.PDF

Dave, the attached sheet shows (I hope) what you are asking for WRT the relationship of amount of water released from Splityard into Wivenhoe & the level rise associated.
For example:

- During the pump run on the 10th, the Wivenhoe level rose from 70.3 at 2:57 to 72.2 at 7:10, the volume of water extracted from Wivenhoe Dam would have been 2760ML and this would have resulted in a drop in level at Wivenhoe of 20mm.
- During the first generation run on the 10th, the Wivenhoe level rose from 72.2 at 12:48 to 72.9 at 17:09, the volume of water released to Wivenhoe Dam would have been 3385ML and this would have resulted in a rise in level at Wivenhoe of 30mm.
- During the second generation run on the 11th, the Wivenhoe level rose from 74.2 at 11:17 to 75.1 at 19:04, the volume of water released to Wivenhoe Damwould have been 5262ML and this would have resulted in a rise in level at Wivenhoe of 40mm.
- The total effect of water release from Splityard "Full" down to "Black start" level would be a release to Wivenhoe Dam of 19750ML resulting in a rise in Wivenhoe Dam level of 140mm

Hope this helps, please advise if you need any further information on this.
Regards, Trev

The message is ready to be sent with the following file or link attachments:

Splityard to Wiv water volume relationships

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Splityard to Wiv water volume ...

SCENARIO	VOLUME TO WIVENHOE		INITIAL WIVENHOE LEVEL	FINAL WIVENHOE LEVEL	WIVENHOE LEVEL DIFFERENCE		INITIAL WIVENHOE VOLUME	FINAL WIVENHOE VOLUME	FINAL WIVENHOE VOLUME (Closest reference to calculated volume)
Splityard Full (EL166.60) to Empty (EL132.00)	23700		74.60	74.66	160mm		2138326	2138326	2151574
	23700		74.60	74.77	170mm		2152848	2152848	2177594
	23700		74.70	74.87	170mm		2167396	2167396	2192184
	23700		74.80	74.97	170mm		2181968	2181968	2206709
	23700		74.90	75.07	170mm		2196566	2196566	2221439
	23700		76.00	76.17	170mm		2211188	2211188	2236104
	23700		76.10	76.27	170mm		2225836	2225836	2250784
Splityard Full (EL166.6) to top of Black Start reserve (EL141.00)	19760		74.60	74.64	140mm		2138326	2138326	2158664
	19760		74.60	74.74	140mm		2152848	2152848	2173222
	19760		74.70	74.84	140mm		2167396	2167396	2187804
	19760		74.80	74.94	140mm		2181968	2181968	2202412
	19760		74.90	75.04	140mm		2196566	2196566	2217044
	19760		76.00	75.14	140mm		2211188	2211188	2231702
	19760		76.10	75.24	140mm		2225836	2225836	2245596
Pump run - 10 January 2011 (EL163.40 to EL160.24)	-2760		74.50	74.48	-20mm		2138326	2138326	2136424
	-2760		74.60	74.58	-20mm		2152848	2152848	2149942
	-2760		74.70	74.68	-20mm		2167396	2167396	2164484
	-2760		74.80	74.78	-20mm		2181968	2181968	2178052
	-2760		74.90	74.88	-20mm		2196566	2196566	2193644
	-2760		76.00	74.98	-20mm		2211188	2211188	2208262
	-2760		76.10	75.08	-20mm		2225836	2225836	2222904
Generation run - 10 January 2011 (EL163.21 to EL162.71)	3385		74.60	74.63	30mm		2138326	2138326	2142680
	3385		74.60	74.63	30mm		2152848	2152848	2157210
	3385		74.70	74.73	30mm		2167396	2167396	2171765
	3385		74.80	74.83	30mm		2181968	2181968	2186345
	3385		74.90	74.93	30mm		2196566	2196566	2200950
	3385		76.00	76.03	30mm		2211188	2211188	2215580
	3385		76.10	76.13	30mm		2225836	2225836	2230236
Generation run - 11 January 2011 (EL163.26 to EL157.57)	6262		74.60	74.64	40mm		2138326	2138326	2144132
	6262		74.60	74.64	40mm		2152848	2152848	2158664
	6262		74.70	74.74	40mm		2167396	2167396	2173222
	6262		74.80	74.84	40mm		2181968	2181968	2187804
	6262		74.90	74.94	40mm		2196566	2196566	2202412
	6262		76.00	76.04	40mm		2211188	2211188	2217044
	6262		76.10	76.14	40mm		2225836	2225836	2231702
Volume difference - 03:20 10/01/2011 to 19:05 11/01/2011 (EL163.40 to EL157.57)	6395		74.60	74.64	40mm		2138326	2138326	2144132
	6395		74.60	74.64	40mm		2152848	2152848	2158664
	6395		74.70	74.74	40mm		2167396	2167396	2173222
	6395		74.80	74.84	40mm		2181968	2181968	2187804
	6395		74.90	74.94	40mm		2196566	2196566	2202412
	6395		76.00	76.04	40mm		2211188	2211188	2217044
	6395		76.10	76.14	40mm		2225836	2225836	2231702
change from 03:20 10/01/2011actual (...163.40) to EL160.00	3230		74.60	74.63	30mm		2138326	2138326	2142680
	3230		74.60	74.63	30mm		2152848	2152848	2157210
	3230		74.70	74.73	30mm		2167396	2167396	2171765
	3230		74.80	74.83	30mm		2181968	2181968	2186345
	3230		74.90	74.93	30mm		2196566	2196566	2200950
	3230		76.00	76.03	30mm		2211188	2211188	2215580
	3230		76.10	76.13	30mm		2225836	2225836	2230236