

Appendix B - Stormwater Management Facility Data

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
1	7.2	55	Dry Pond	Quantity - 100 Year Storm	6.18	35	2262
2	8.6	48	Dry Pond	Quantity - 5 Year Storm	5.06	19	6,427
3	26.5	44	Dry Pond	Quantity - 100 Year Storm	26.543	Unknown	8,500
4	8.0	46	Forebay, Wet Pond	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	29	55	9,840
5	5.3	41	Dry Pond	Quantity - 100 Year Storm	46.64	29	105,444
6	9.7	47	Dry Pond	Quantity - 100 Year Storm	6.175	Unknown	1,760
7	10.7	40	Wetland	Quantity - 5 Year Storm	32.6	71 (CN)	1,580
8	4.9	39	Wetland	Quantity - 5 Year Storm	32.6	72 (CN)	388
10	48.8	40	Dry Pond	Quantity - 5 Year Storm	59.55	98 (CN)	22,193
11	11.2	49	Wetland	Quantity - 5 Year Storm	55.1	69 (CN)	109,250
12	8.8	54	Dry Pond	Quantity - 100 Year Storm	7.5	43.1	Unknown

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
13	1.7	34	Dry Pond	Quantity - 100 Year Storm	0.85	72 (CN)	1,390
14	11.1	48	Dry Pond	Quantity - 5 Year Storm	13.5	83(CN)	793
15	5.7	49	Dry Pond	Quantity - 5 Year Storm	6.2	82 (CN)	496
16	5.1	45	Dry Pond	Quantity - 5 Year Storm	5.9	90 (CN)	360
17	44.9	48	Forebay, Wet Pond	Level 2 - Normal	20.87	80	4,930
18	6.7	18	Wetland	Quantity - 5 Year Storm	6.95	40	1,149
19	13.3	45	Dry Pond	Quantity - 100 Year Storm	10.7	35	2,500
20	6.0	34	Wetland	Quantity - 100 Year Storm	40.66	70 (CN)	7,915
21	30.6	28	Wetland	Quantity - 100 Year Storm	31.4	60 (CN)	5,265
22	38.3	38	Forebay, Wet Pond, Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	37	47	12,500
23	7.5	49	Dry Pond	Quantity & Quality - 100 Year Storm	2.6	79 (CN)	1,190
24	2.0	35	Wet Pond	Unknown	50.4	Unknown	41,721
25	25.4	16	Dry Pond, Wetland	Quality - 100 Year Storm	16	15	N/A

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
26	59.1	46	Forebay, Wet Pond	Quantity & Quality - Regional Storm (Level 2 –Normal)	45.3	61	16,000
28	30.8	43	Dry Pond	Quality – 100 Year Storm (Level 3 - Basic)	34.2	50	11,600
29	7.5	54	Dry Pond	Quantity & Quality - 100 Year Storm (Level 3 –Basic)	8.5	30	2,079
30	25.4	54	Forebay, Wet Pond	100 Year Storm (Level 1 –Enhanced)	32	Unknown	16,020
32	3.1	47	Natural Pond	Quantity - 5 Year Storm	1.2	50	29,922
33	2.2	50	Wetland	Quantity & Quality - 100 Year Storm (Level 3 –Basic)	8.1	45	24,355
34	1.8	52	Dry Pond	Quantity & Quality - 100 Year Storm (Level 3 –Basic)	4.4	45	
36	11.1	48	Wet Pond	Quantity - 5 Year Storm	10	Unknown	1,537
37	2.5	55	Wet Pond	Quantity - 5 Year Storm	4.1		581
39	12.9	52	Dry Pond	Quantity & Quality - 100 Year Storm	15.9	40	2,329
40	3.9	30	Forebay, Wetland	(Level 3 –Basic)	3.5	35	416.75

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
41	4.0	53	Wet Pond	Unknown	--	--	11,822
42	19.4	47	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 3 -Basic)	55.8	40	11,953
43	9.7	46	Wet Pond	Quantity & Quality - 5 Year Storm	12.1	43	1,892
44	9.9	46	Forebay, Wetland	Quantity & Quality - 100 Year Storm (Level 2 - Normal)	3.3	39	3123
45	4.6	49	Dry Pond	Quantity - 100 Year Storm	6.2	45	2,077
46	1.7	74	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 1 -Enhanced)	2.5	34	894
47	33.4	48	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 3 -Basic)	31	50	3,874
48	15.6	2	Wetland	Quantity - Regional Storm			
49	19.0	60	Wetland	25mm & 5 Year Storm (Level 3 -Basic)	18.2	43	1,582
50	1.3	38	Dry Pond	Quantity - 100 Year Storm	2.6	85 (CN)	275
51	20.7	49	Wetland	Quantity & Quality - 100 Year Storm	28.9	45	3,567

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
52	14.8	31	Forebay, Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	6.55	35	3,975
53	41.6	41	Wet Pond	(Level 2 – Normal)	39	45	4,464
54	43.9	58	Wet Pond, Wetland	Quantity & Quality - 100 Year Storm (Level 2 – Normal)	56.6	51	14,919
55	3.9	64	Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	6.4	75	2,508
56	1.5	39	Wet Pond	Quantity & Quality - 100 Year Storm (Level 3 –Basic)	1.65		320
57	4.6	53	Dry Pond	Quantity - 5 Year Storm	3.66	58 (CN)	6,957
58	1.4	54	Dry Pond	Quantity - 5 Year Storm	2.49	65 (CN)	2,377
59	3.8	34	Dry Pond	Unknown	67	30	2,500
60	1.5	95	Forebay	Quality – 25mm, 2 Year Storm (Level 1 –Enhanced)	2.83	35	191
61	4.0	35	Wet Pond	Regional Storm	600	70	57,375
62	23.1	26	Wetland	(Level 1 –Enhanced)			58,800

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
63	5.5	79	Wetland	(Level 1 –Enhanced)	--	--	
64	0.4	38	Wetland	(Level 1 –Enhanced)	--	--	
65	53.9	57	Dry Pond, Wet Pond	Quantity – Regional Event	600	70	25,337
66	17.0	77	Wet Pond	Quantity – Regional Storm (Level 1 –Enhanced)			65,760
67	4.7	58	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 2 – Normal)	5.2	48	1,168
68	21.0	45	Wetland	Quantity & Quality - 100 Year Storm (Level 2 – Normal)	26.7	55	8,585
69	10.9	47	Forebay, Wetland	Quantity & Quality - (Level 2 – Normal)	10.83	35	2,458
70	13.6	56	Forebay, Dry Pond	Quantity & Quality - 100 Year Storm (Level 3 – Basic)	9	30	Unknown
71	1.6	39	Forebay	Quality – 25mm Storm (Level 1 –Enhanced)	21.9	80	14,679
72	23.9	57	Wetland	(Level 2 – Normal)	22.8	45	6,882
73	4.4	45	Wetland	(Level 2 – Normal)	2.9	55	973

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
74	30.9	58	Forebay, Wet Pond	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	25.6	55	11,980
75	8.6	53	Wetland	Quantity - 100 Year Storm (Level 1 –Enhanced)	17	66	0
76	4.9	56	Wetland	Quality - (Level 2 – Normal)	2.99	50	0
77	6.0	34	Wetland	Quality - (Level 2 – Normal)	2.54	69	0
78	66.3	20	Forebay, Wetland	Quantity - 100 Year Storm (Level 1 –Enhanced)	25.5	48	5,888
79	5.1	34	Forebay, Wetland	Quantity - 100 Year Storm (Level 1 –Enhanced)	4.6	53	1,760
80	15.3	45	Wetland	Quantity & Quality - 5 Year Storm (Level 2 –Normal)	14.13	45	2,740
81	5.9	39	Wetland	Quality - 5 Year Storm (Level 2 –Normal)	4.73	70	2,189
82	4.1	36	Wetland	5 Year Storm (Level 2 –Normal)	4.42	70	1,796

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
83	1.7	31	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 2 –Normal)	21.4	55	5,277
84	19.4	23	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 2 –Normal)	13.2	60	6,140
85	35.5	36	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 2 –Normal)	40	60	10,544
86	19.0	35	Wetland	100 Year Storm (Level 1 –Enhanced)	19.1	51	2,314
87	30.0	41	Wetland	(Level 2 –Normal)	44	59	4,330
88	No Data	No Data	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 3 – Basic)	10.04	29.5	1,074
93	3.3	65	Forebay, Wetland	Quantity & Quality - 100 Year Storm (Level 3 –Basic)	22.6	35	361
94	25.5	37	Forebay, Wet Pond	Quantity & Quality - Regional Storm	Unknown	Unknown	13,072
95	10.9	51	Forebay, Wet Pond	(Level 3 – Basic)	17.8	59	1,070
96	33.2	50	Forebay, Wet Pond	(Level 3 –Basic)	32.9	56	1,974
97	51.1	54	Forebay, Wet Pond	(Level 3 – Basic)	60	51.6	4,384

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
99	62.5	40	Forebay, Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	69.8	47	20,805
100	17.2	39	Wetland	100 Year Storm (Level 2 –Normal)	25.5	90	7,033
101	25.6	56	Forebay, Wet Pond	Quantity & Quality – 25mm, 5 Year Storm (Level 3 –Basic)	Unknown	55	3,237
102	2.4	69	Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	3.95	60	2,325
105	7.6	60	Wet Pond	Unknown	--	--	No report
106	111.3	40	Wetland	Quantity	--	--	No report
107	43.5	41	Forebay, Wet Pond	Quantity & Quality - 100 Year Storm (Level 2 –Normal)	70.1	48	16,849
108	60.5	43	Wet Pond	Unknown	--	--	No report
109	15.8	25	Wetland	100 Year Storm (Level 2 –Normal)	34.3	75	24,500
111	27.7	58	Wet Pond	Unknown	25.8	90	See Basin 107
112	43.8	43	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 1 –Enhanced)	4.9	55	978

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	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
114	48.5	14	Forebay, Wet Pond	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	37.8	50	18,938
115	31.1	39	Forebay, Wet Pond	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	32.5	51	10,601
116	2.7	43	Dry Pond	Quantity & Quality - 100 Year Storm	2.0	55	331
117	10.5	48	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 1 –Enhanced)	15.6	55	5,400
118	31.5	47	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 2 –Normal)	36.28	45	8,831
119	27.8	49	Unknown	Unknown	20.51	40	3,358
120	6.2	47	Wet Pond	Quantity & Quality – 100 Year Storm (Level 3 –Basic)	4.2	50	1,000
121	6.2	20	Wetland	Quantity & Quality - 100 Year Storm (Level 2 –Normal)	10.84	70.2	2,524
122	9.4	46	Unknown	Unknown	21.63	55	6,413

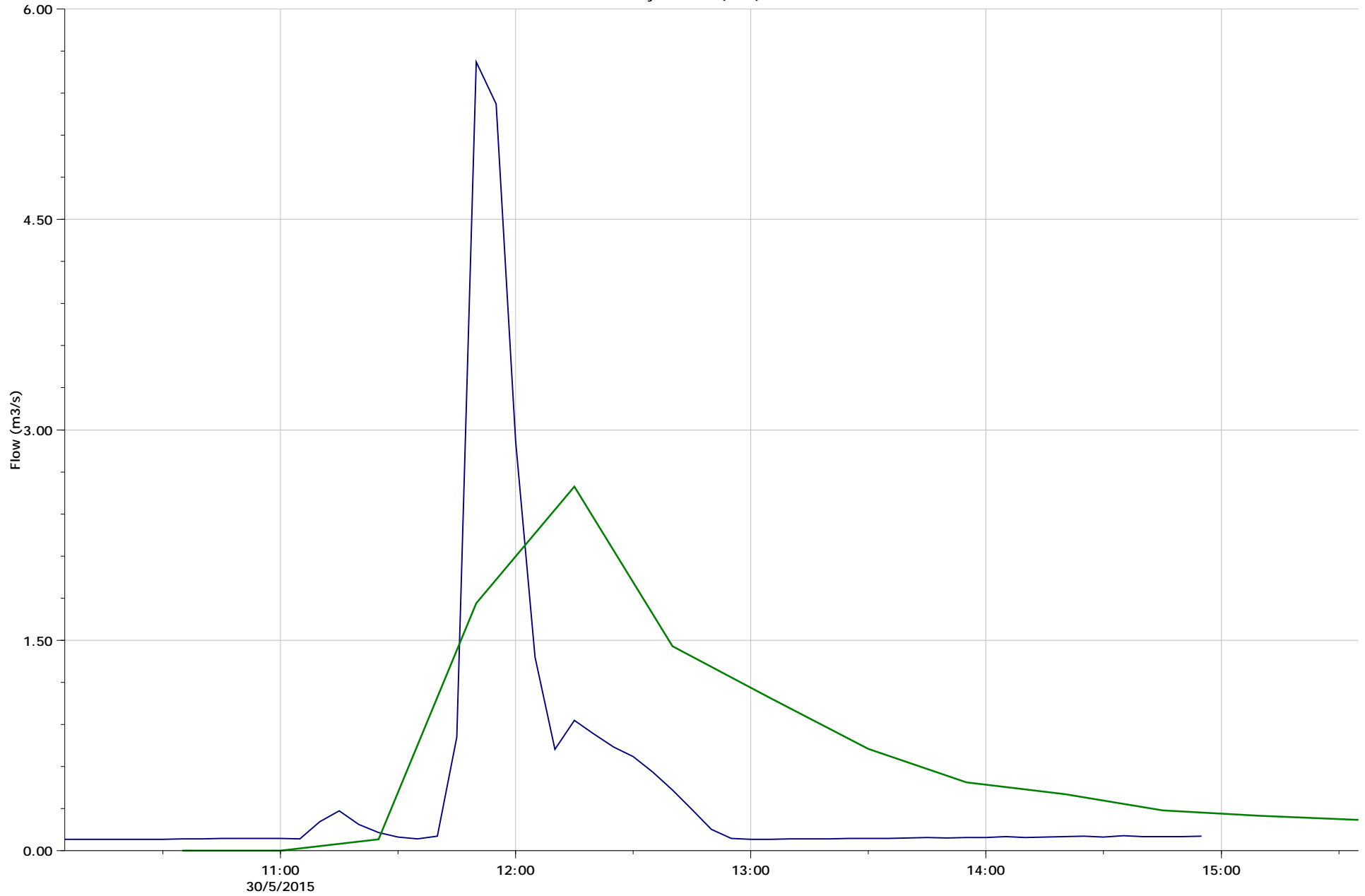
SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
123	18.8	50	Forebay, Wetland	Quantity & Quality – 25mm, 5 Year Storm (Level 2 –Normal)	10.05	--	1,433
124	10.2	69	Unknown	Unknown	--	--	No report
125	23.6	49	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 1 –Enhanced)	20.16	51	2,872
126	6.6	38	Forebay, Wetland	Quantity & Quality – 25mm, 5 Year Storm (Level 1 –Enhanced)	4.67	55	1,503
127	1.6	70	Wetland	Quantity & Quality - 100 Year Storm (Level 1 –Enhanced)	2.8	40	1,050
129	6.1	41	Unknown	Unknown	--	--	No report
131	20.9	14	Forebay, Wet Pond	Quantity & Quality – 5 Year Storm (Level 2 –Normal)	20.35	25	1,366
133 / 88	14.9	35	Wetland	Quantity – 100 Year Storm	19	30	2,183
134	16.9	35	Wetland	Quantity & Quality – 25mm, Regional Storm (Level 1 –Enhanced)	15.96	54	5,237



SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
135	6.4	35	Forebay, Wetland	Quantity & Quality - 5 Year Storm (Level 2 -Normal)	3.61	65	1,875
136	5.0	49	Wetland	Quantity & Quality - 5 Year Storm	6.6	37	629
137	23.5	18	Unknown	Unknown	--	--	No report
139	24.7	21	Wetland	Unknown	--	--	No report
140	4.1	64	Unknown	Unknown	--	--	No report
143	43.5	44	Forebay, Wet Pond	Quality - (Level 2 -Normal)	17.4	85	2,203
144	212.7	59	Unknown	Unknown	--	--	No report
145	4.3	33	Wetland	5 Year Storm (Level 2 -Normal)	4.24	49	1,712
146	5.1	68	Forebay, Wet Pond	Quantity & Quality - 5 Year Storm (Level 2 -Normal)	21.4	55	7,916
147	4.6	25	Forebay, Wet Pond	Quality - (Level 2 -Normal)	3.2	35	1,302
148	3.0	49	Unknown	Unknown - 5 Year Storm	6.59	45	1,726
149	16.4	33	Forebay, Dry Pond	Quantity & Quality - (Level 3 -Basic)	14.27	55	4,937
150	16.9	47	Wetland	5 Year Storm (Level 2 -Normal)	9.06	49	2,412
153	27.9	29	Wetland	Quality - (Level 2 -Normal)	27.4	55	3,877

SWM Facility	Data From GIS		Data From City of Kitchener 2015 Integrated SWM-MP		Data From Design Briefs		
	Drainage Area (ha)	% Impervious	Facility Type	Design Basis	Drainage Area (ha)	% Impervious	Total Basin Storage Volume (m3)
154	7.6	14	Forebay, Wetland	Quantity & Quality - (Level 1 –Enhanced)	14.02	55	1,349
155	25.7	10	Unknown	Quantity & Quality	14.1	55	6,994
156	18.6	23	Unknown	Quantity & Quality	--	--	No report
157	7.2	53	Wetland	Quantity – 10 Year Storm (Level 1 –Enhanced)	5.4	55	1,026
158	57.5	2	Forebay, Wetland	Quantity & Quality – Regional Storm (Level 1 –Enhanced)	8.5	66	1,231

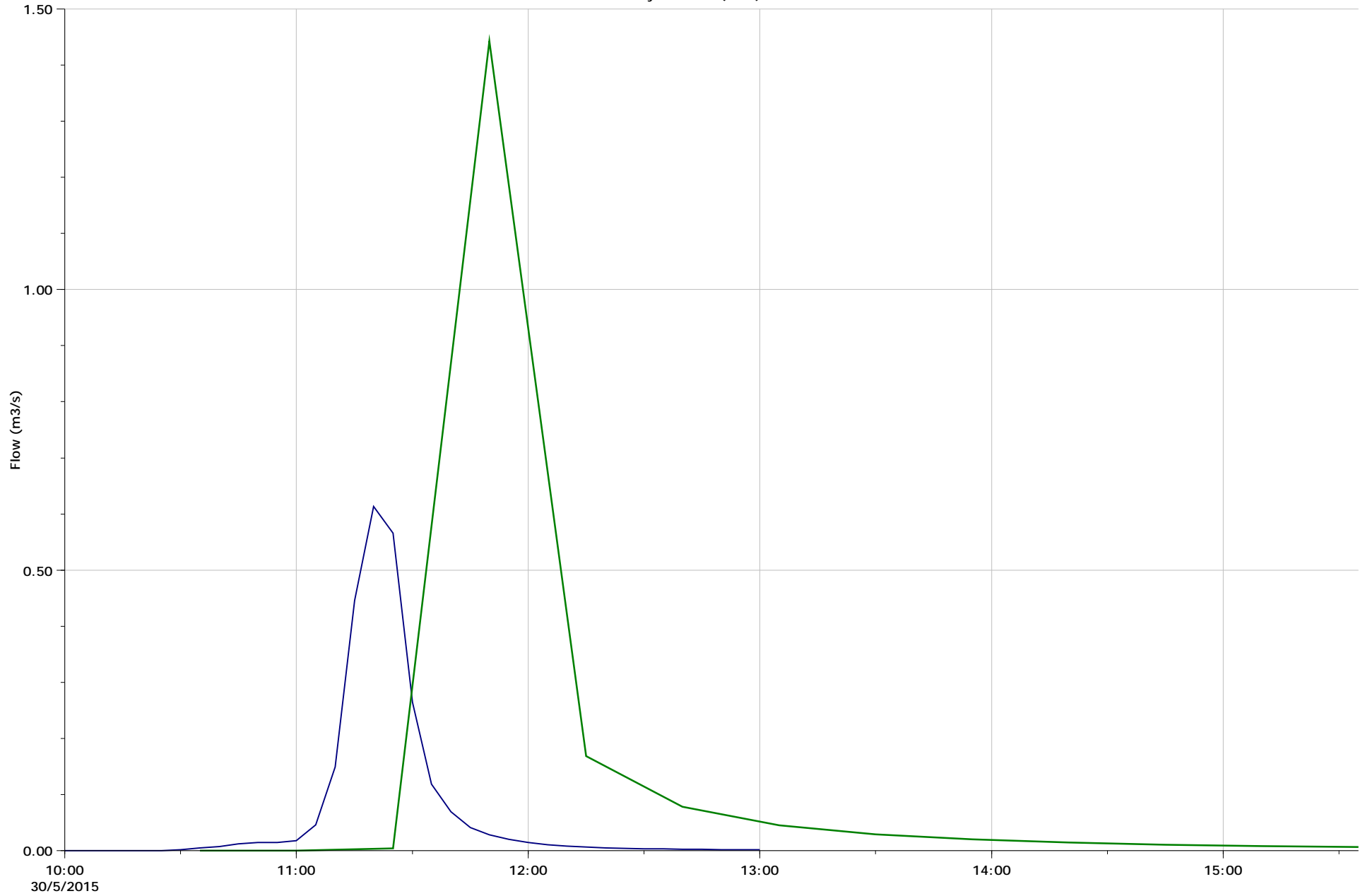
Appendix C - Comparison of monitored vs. modelled peak flows and flow volumes (all flow monitoring locations).

Flow Survey Location (Obs.) 418420.1



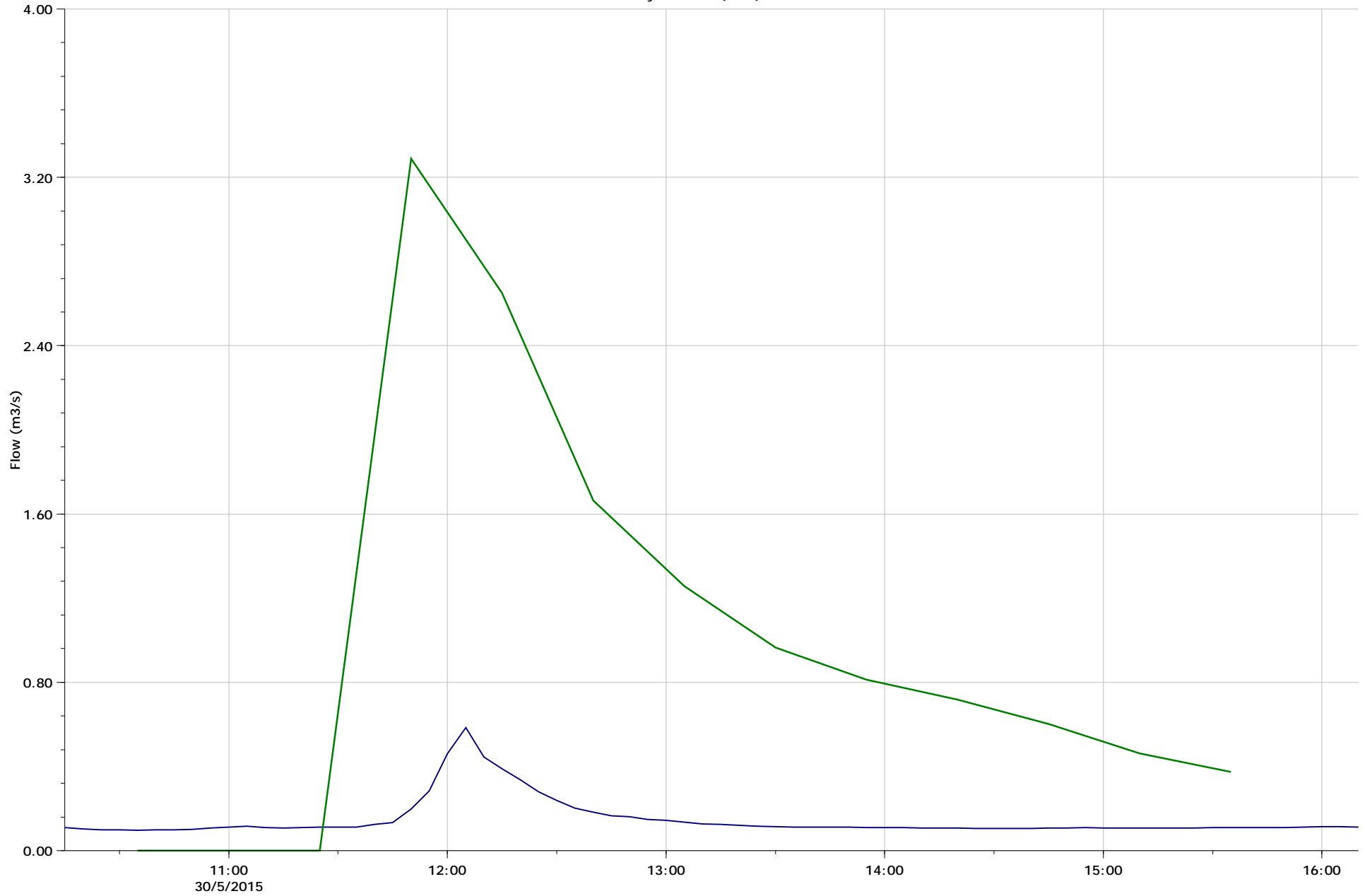
		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.080	5.623	7738.200
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Flow Survey Location (Obs.) 400868.1



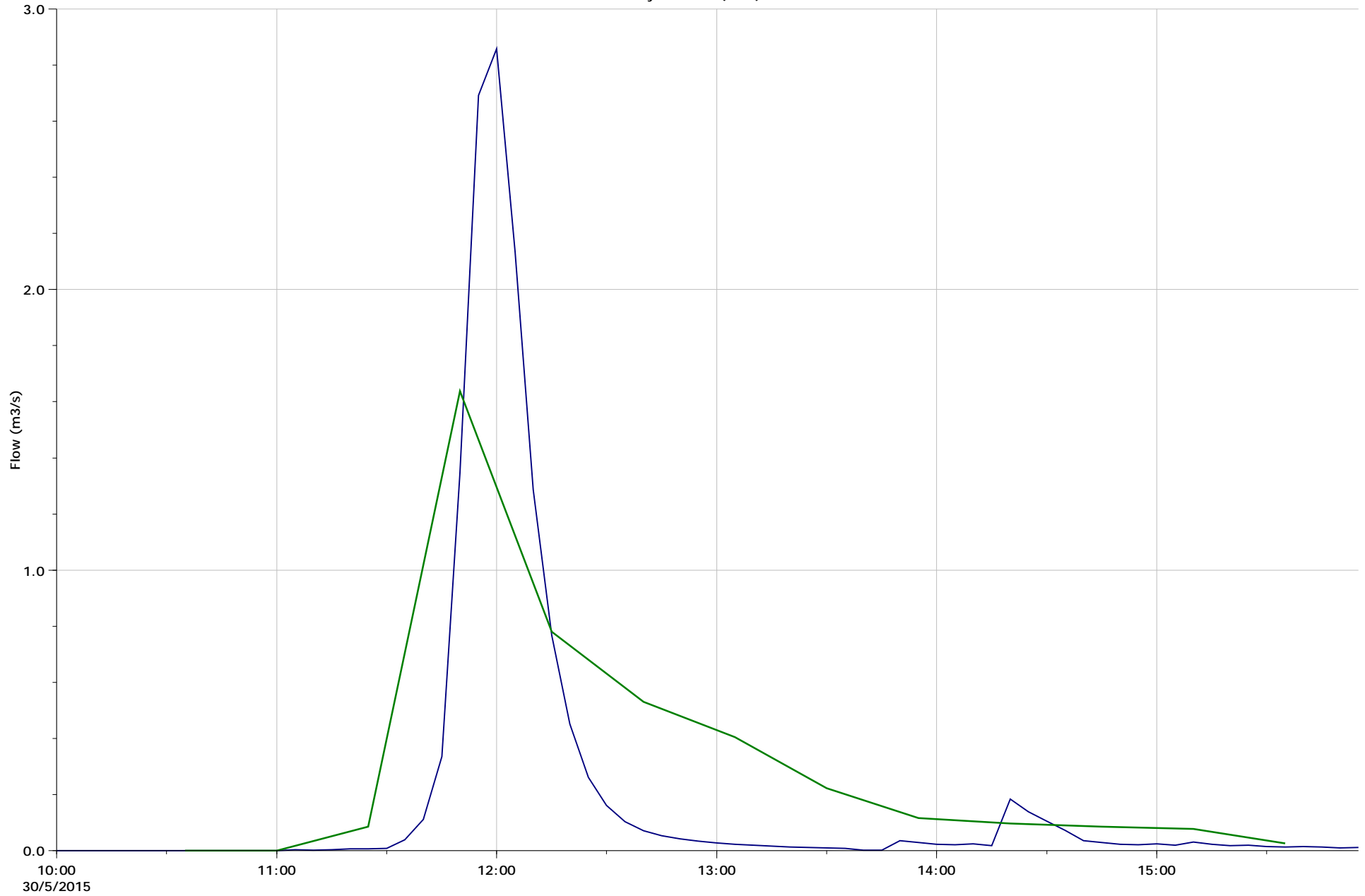
	Flow (m ³ /s)			Volume (m ³)
	Min	Max		
Obs.	0.000	0.613		749.685
..._RG1-4_30MAY2015_5HR_RG4_only>RG4-30MAY2015-RG4	0.000	1.442		2735.336



Flow Survey Location (Obs.) 403886.1



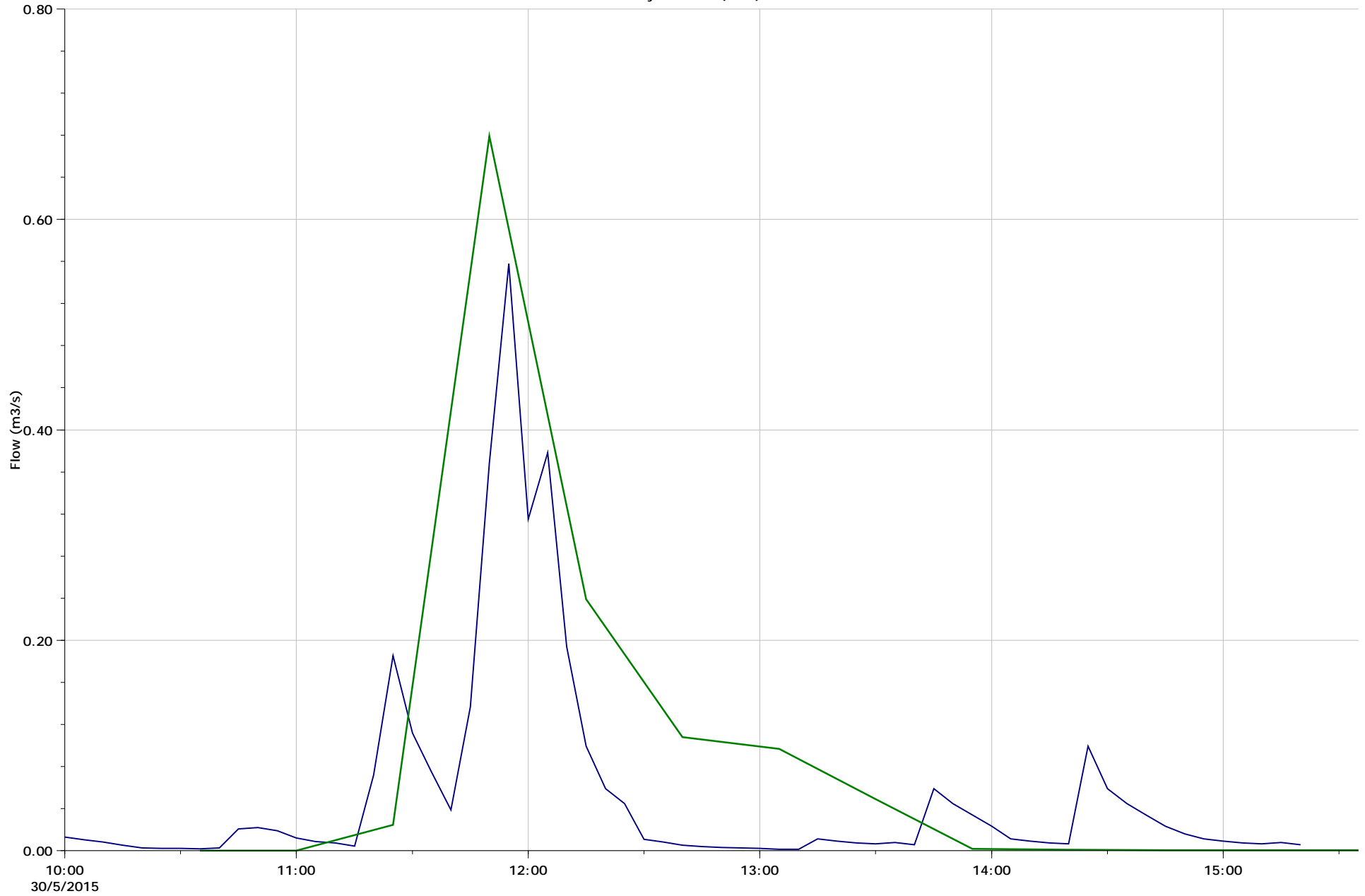
		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.096	0.584	3115.650
...6_Test_Run_RG1-4_30MAY2015_5HR>RG2-30MAY2015-RG2		-0.000	3.289	18908.906



Flow Survey Location (Obs.) 402579.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	2.859	4159.500
...5_Test_Run_RG1-4_30MAY2015_5HR>RG3-30MAY2015-RG3		0.000	1.637	6070.832

Flow Survey Location (Obs.) 402541.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.001	0.558	1011.745
...5_Test_Run_RG1-4_30MAY2015_5HR>RG3-30MAY2015-RG3		0.000	0.679	1799.838

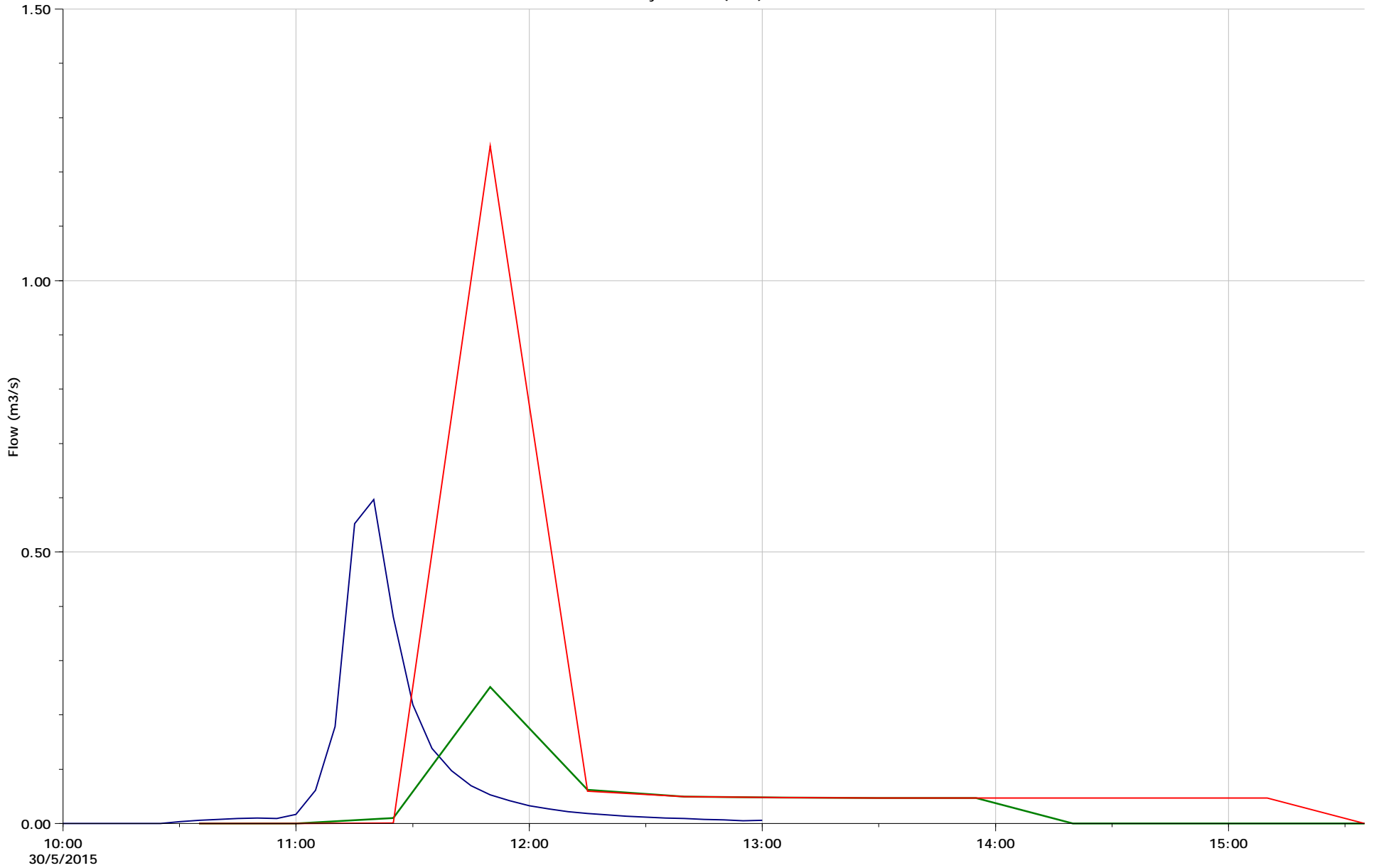
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Sim: >Catchment Group>Run Group>208_Test_Run_RG1-4_30MAY2015_5HR>RG3-30MAY2015-RG3 (15/12/2015 12:17:39 PM)

Sim: >Catchment Group>Run Group>208_Test_Run_RG1-4_30MAY2015_5HR>RG4-30MAY2015-RG4 (15/12/2015 12:16:27 PM)

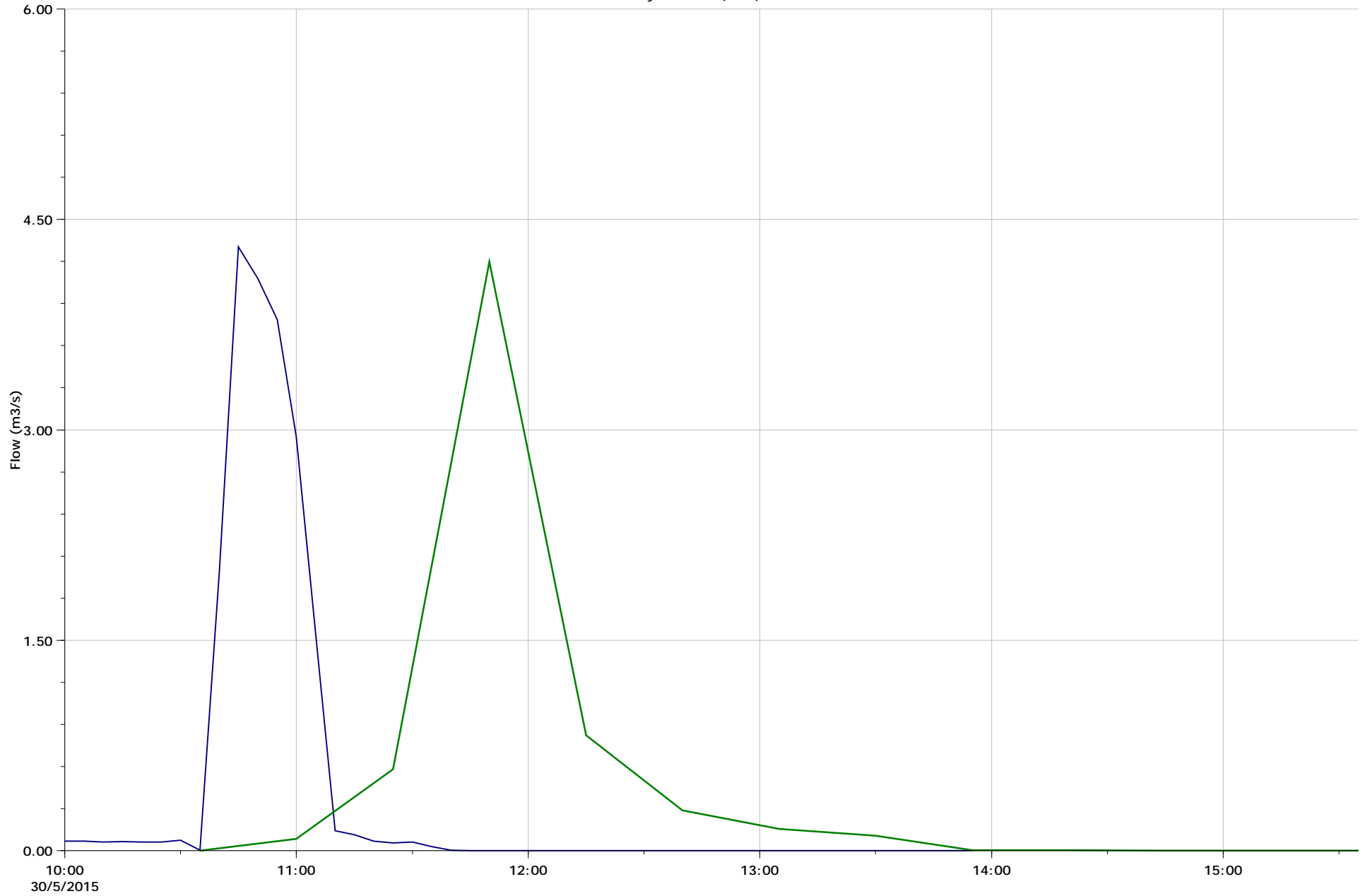
Graph Template: >Catchment Group>Graph Template Group>Graph Template Group_MAY30>Graph FM8 Campbell_MAY30 (06/12/2015 2:16:52 PM)



Flow Survey Location (Obs.) 408202.1



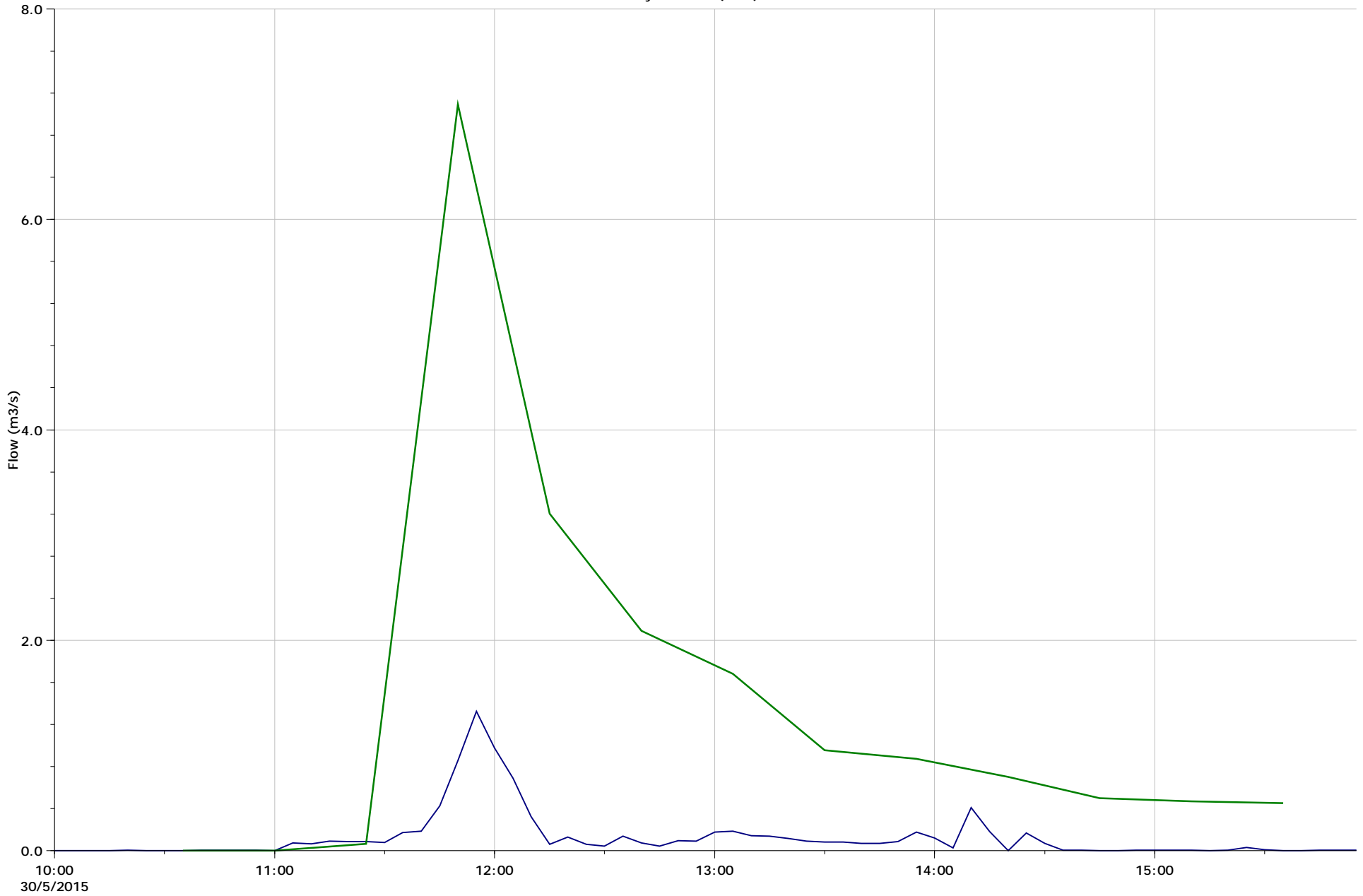
Obs.	Flow (m3/s)		
	Min	Max	Volume (m3)
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Flow Survey Location (Obs.) 416178.1



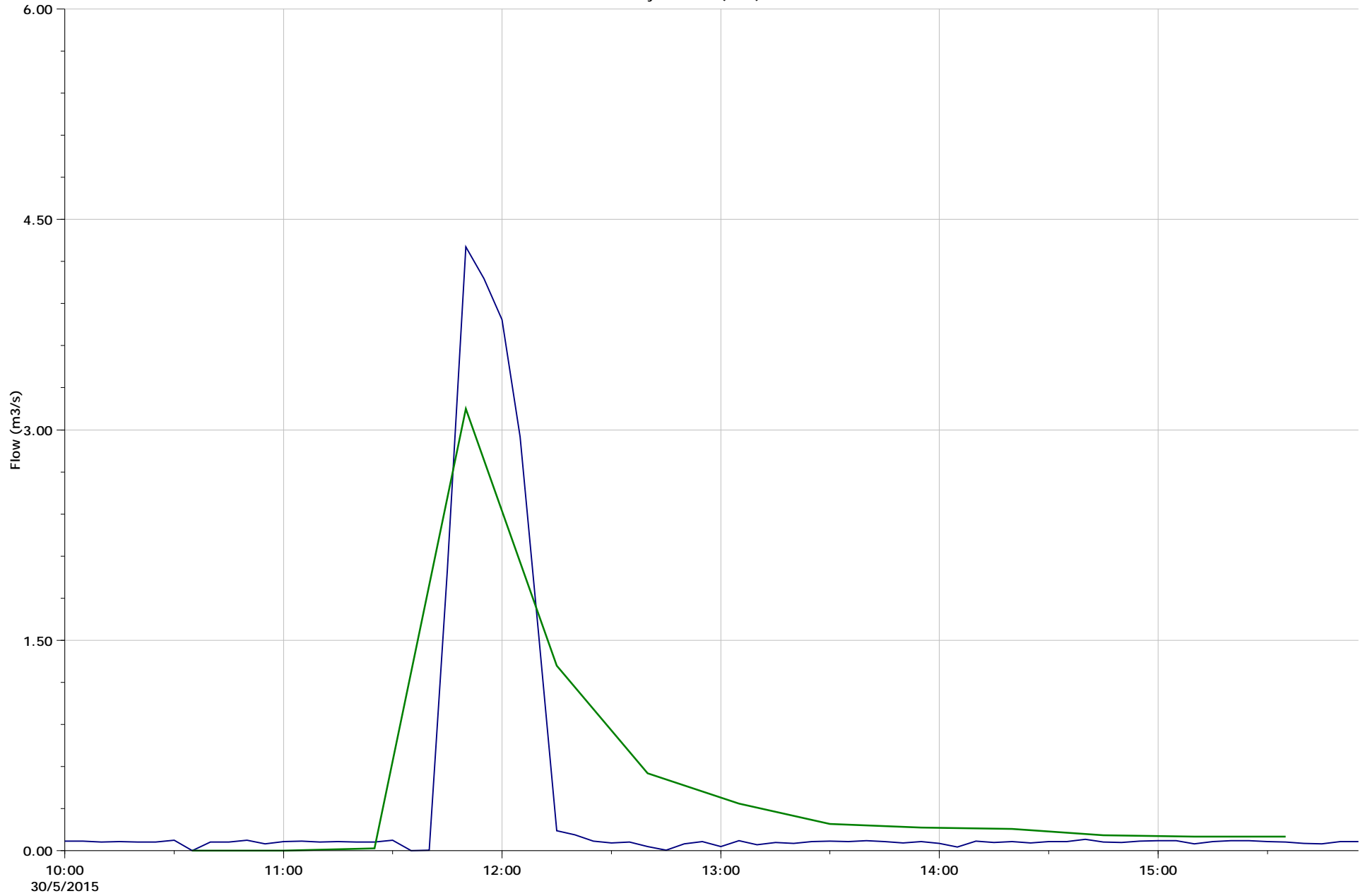
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	4.305	5863.650
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Flow Survey Location (Obs.) 408926.1



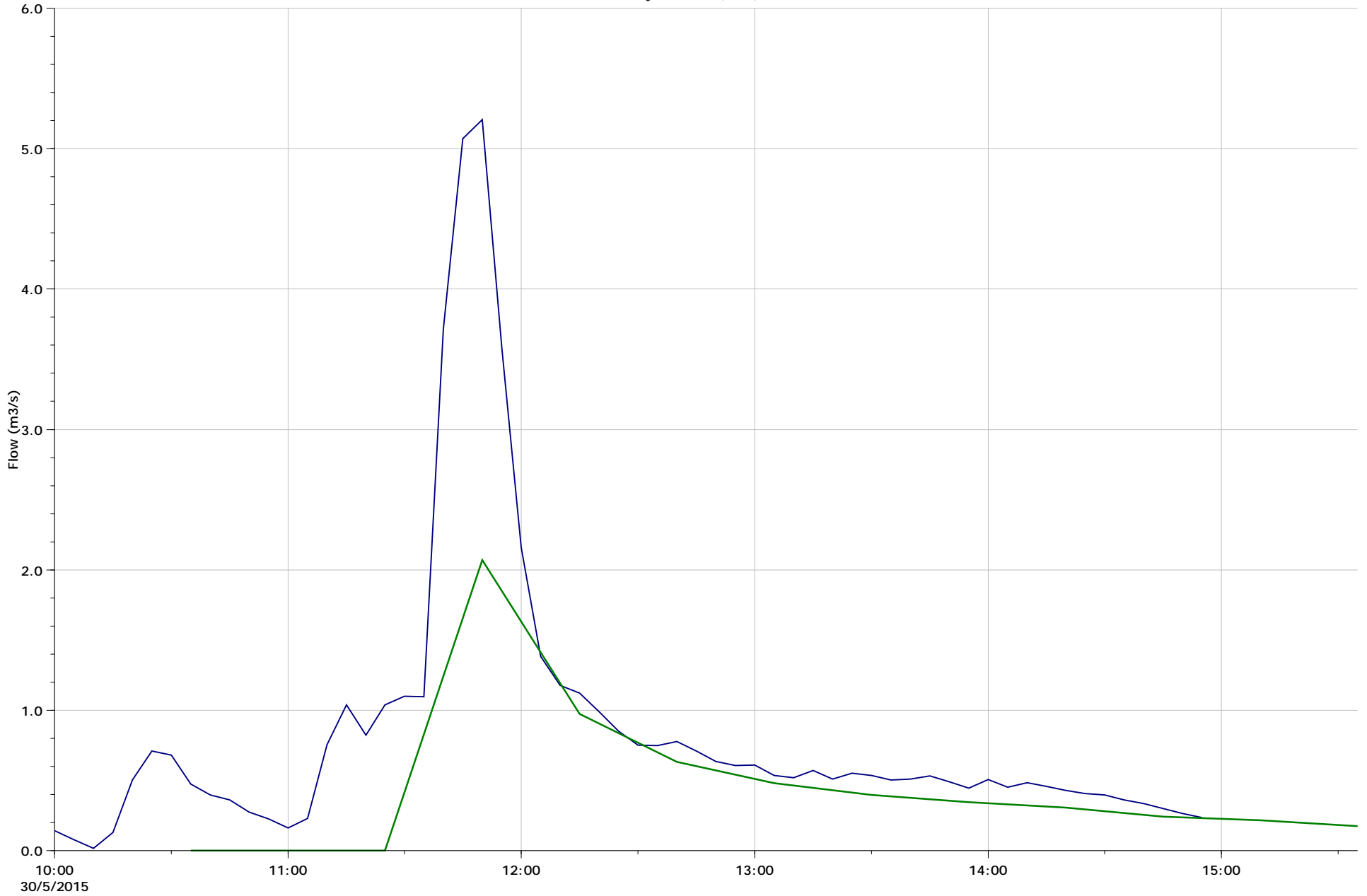
	Flow (m ³ /s)			Volume (m ³)
	Min	Max		
Obs.	0.000	1.324		2595.599
..._RG1-4_30MAY2015_5HR_RG4_only>RG4-30MAY2015-RG4	0.000	7.094		26770.360

Flow Survey Location (Obs.) 417990.2



	Flow (m3/s)			Volume (m3)
	Min	Max		
Obs.	0.000	4.305		6746.466
..._RG1-4_30MAY2015_5HR_RG4_only>RG4-30MAY2015-RG4	-0.000	3.151		9216.771

Flow Survey Location (Obs.) 404820.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.017	5.207	15138.450
...6_Test_Run_RG1-4_30MAY2015_5HR>RG2-30MAY2015-RG2		0.000	2.071	8618.422

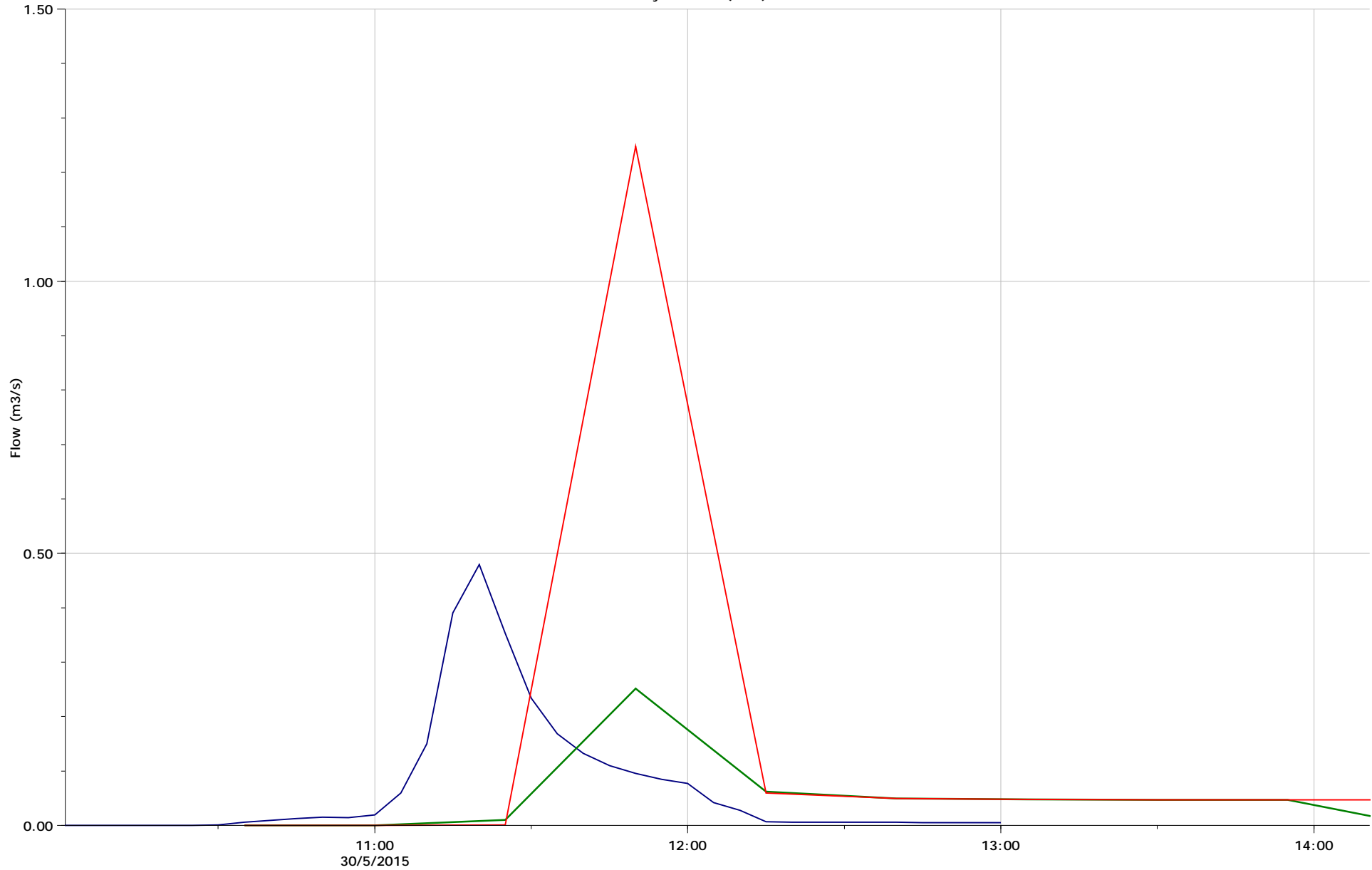
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Sim: >Catchment Group>Run Group>208_Test_Run_RG1-4_30MAY2015_5HR>RG4-30MAY2015-RG4 (15/12/2015 12:16:27 PM)

Graph Template: >Catchment Group>Graph Template Group>Graph Template Group_MAY30>Graph FM13 Amold_MAY30 (06/12/2015 2:07:17 PM)

Flow Survey Location (Obs.) 408202.1



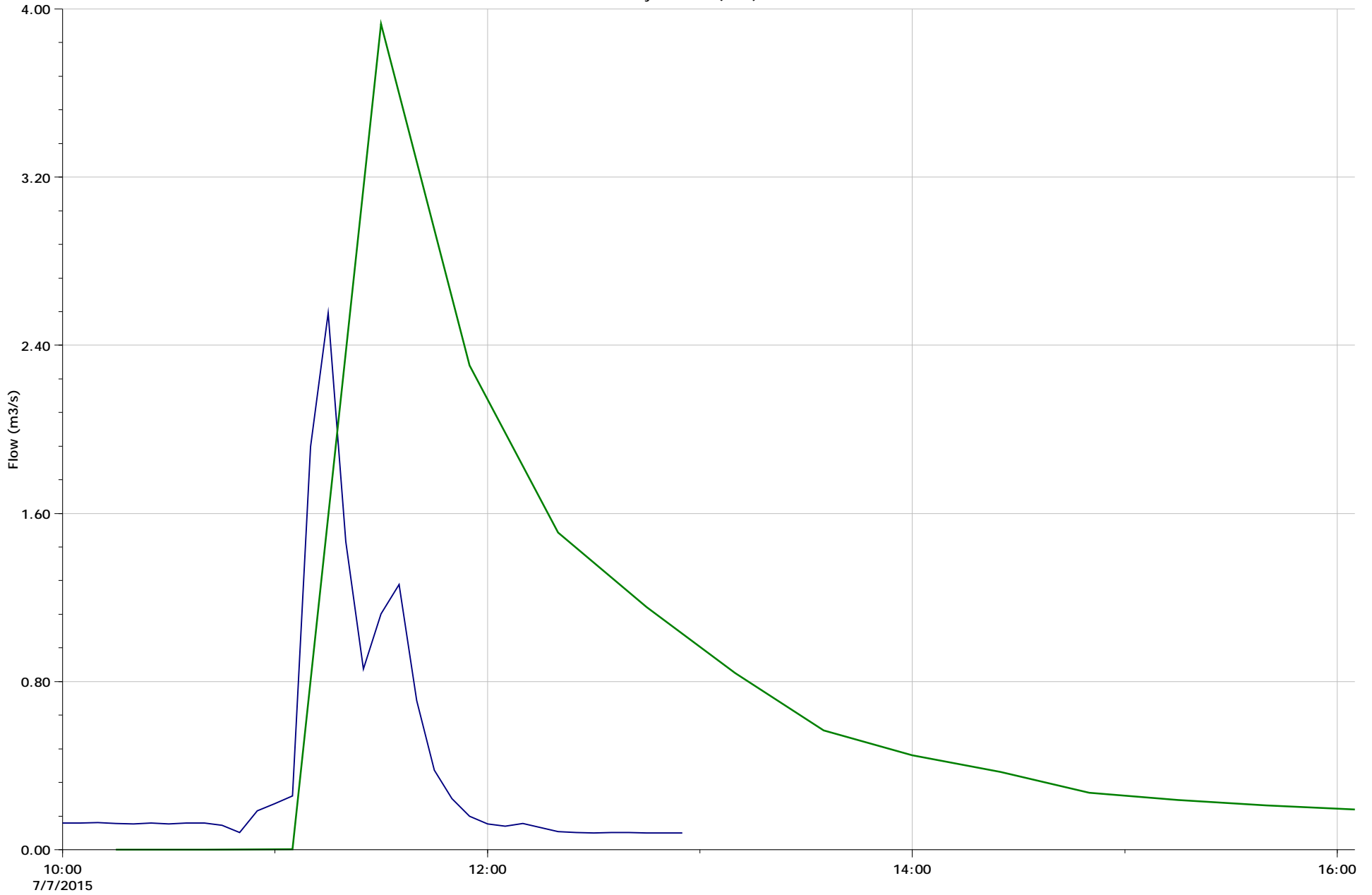
	Flow (m3/s)			Volume (m3)
	Min	Max		
Obs.	0.000	0.480		760.416
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...8_Test_Run_RG1-4_30MAY2015_5HR>RG4-30MAY2015-RG4	0.000	1.248		2281.731



Appendix C

Storm System Calibration Curves

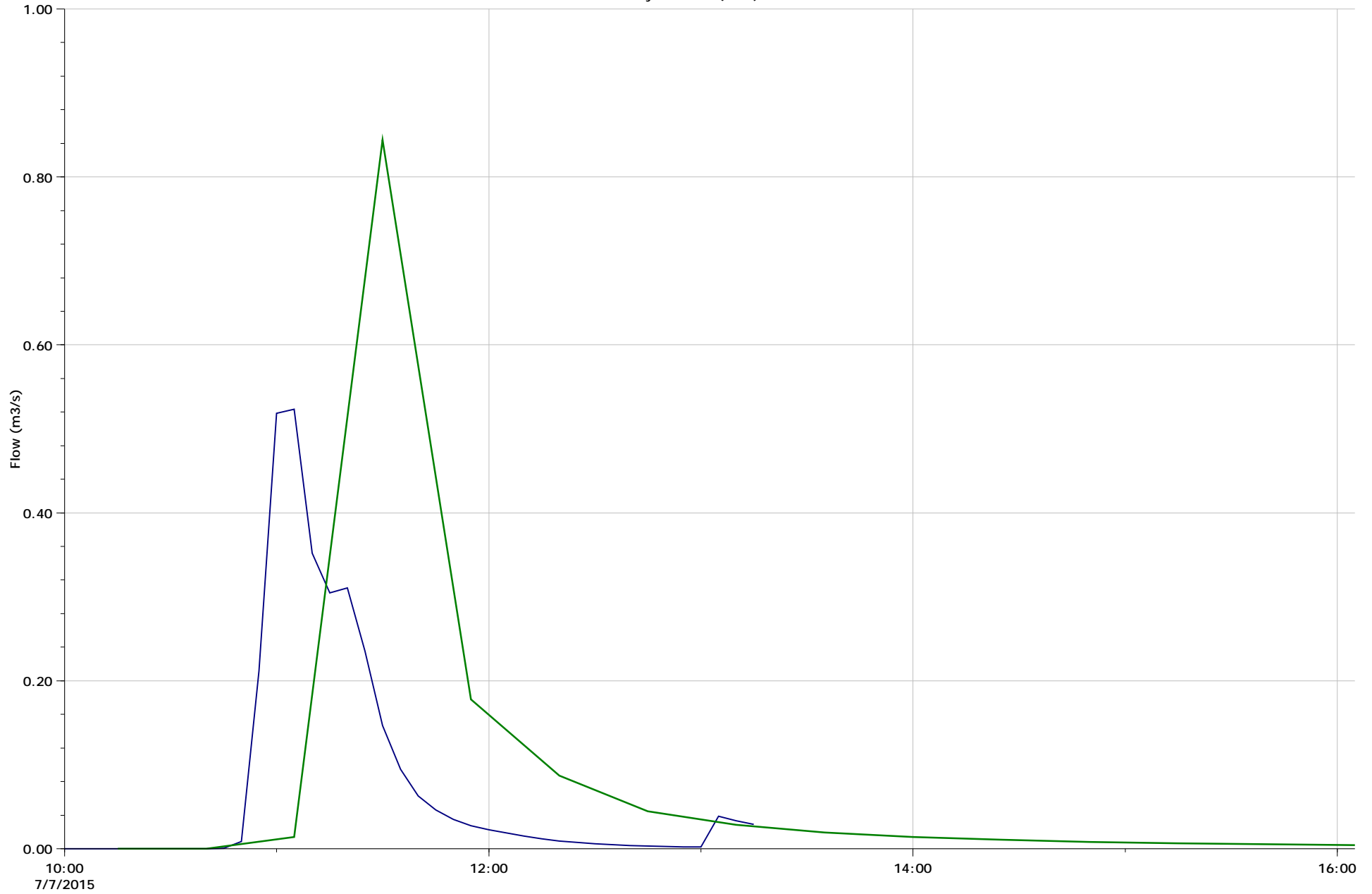
- **July 7th, 2015**



Flow Survey Location (Obs.) 418420.1



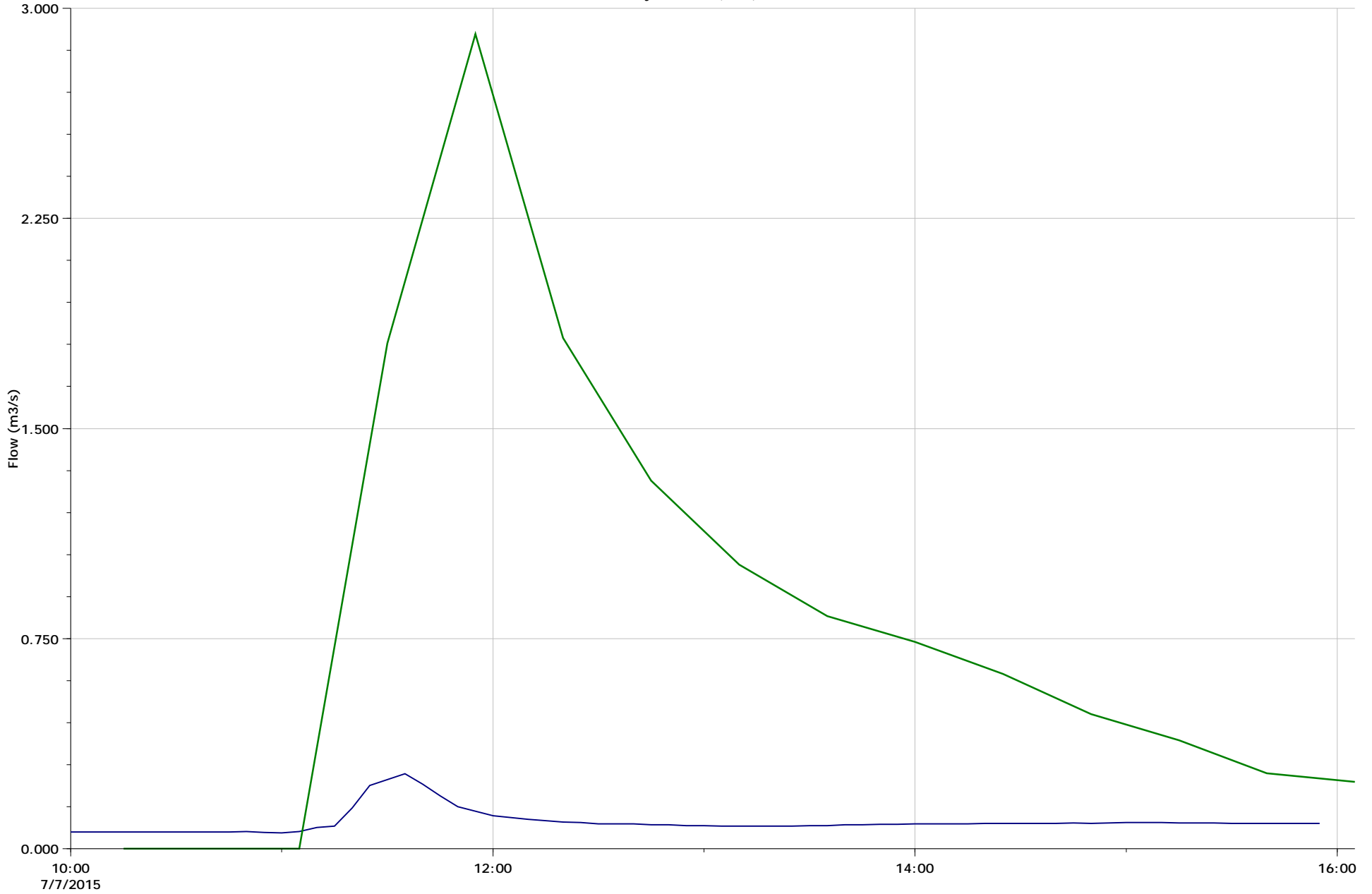
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.080	2.553	4101.450
...09_Test_Run_RG1-4_07JUL2015_6HR>RG3-07JUL2015-RG3		-0.000	3.929	17906.432



Flow Survey Location (Obs.) 400868.1



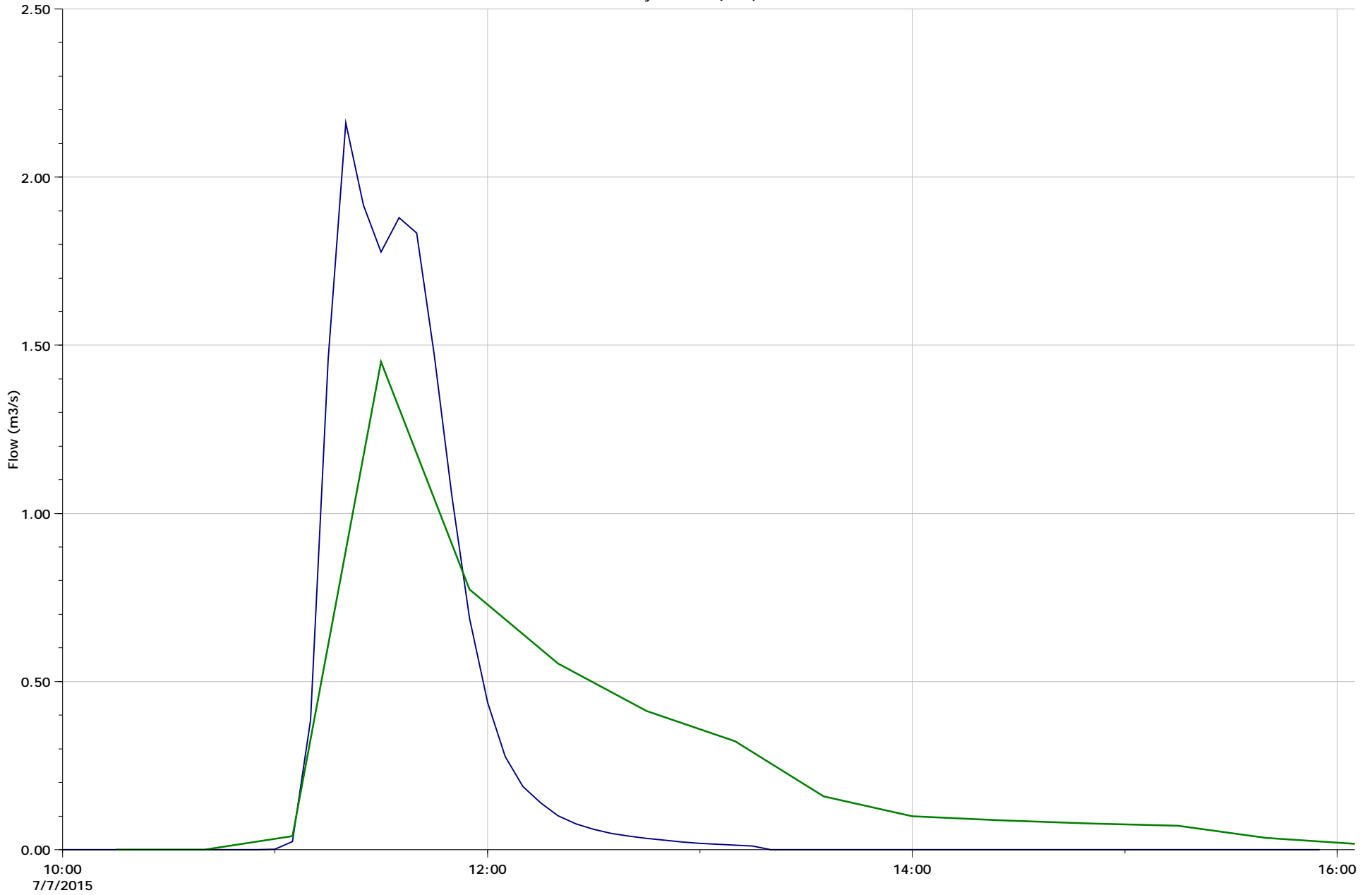
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	0.523	922.277
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4		0.000	0.844	1893.626



Flow Survey Location (Obs.) 403886.1



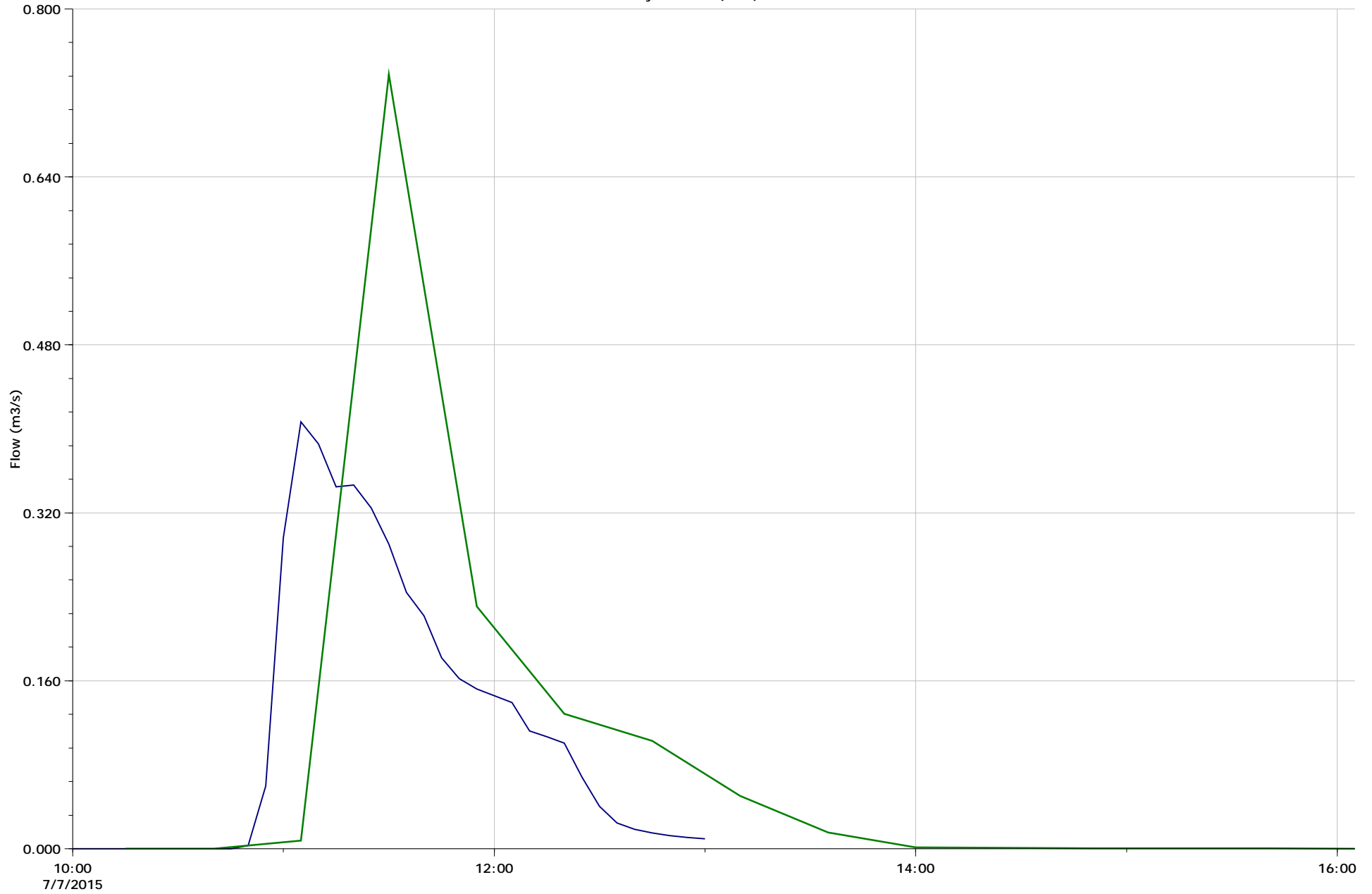
		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.057	0.267	2046.300
...09_Test_Run_RG1-4_07JUL2015_6HR>RG2-07JUL2015-RG2		-0.000	2.909	18465.929



Flow Survey Location (Obs.) 402579.1

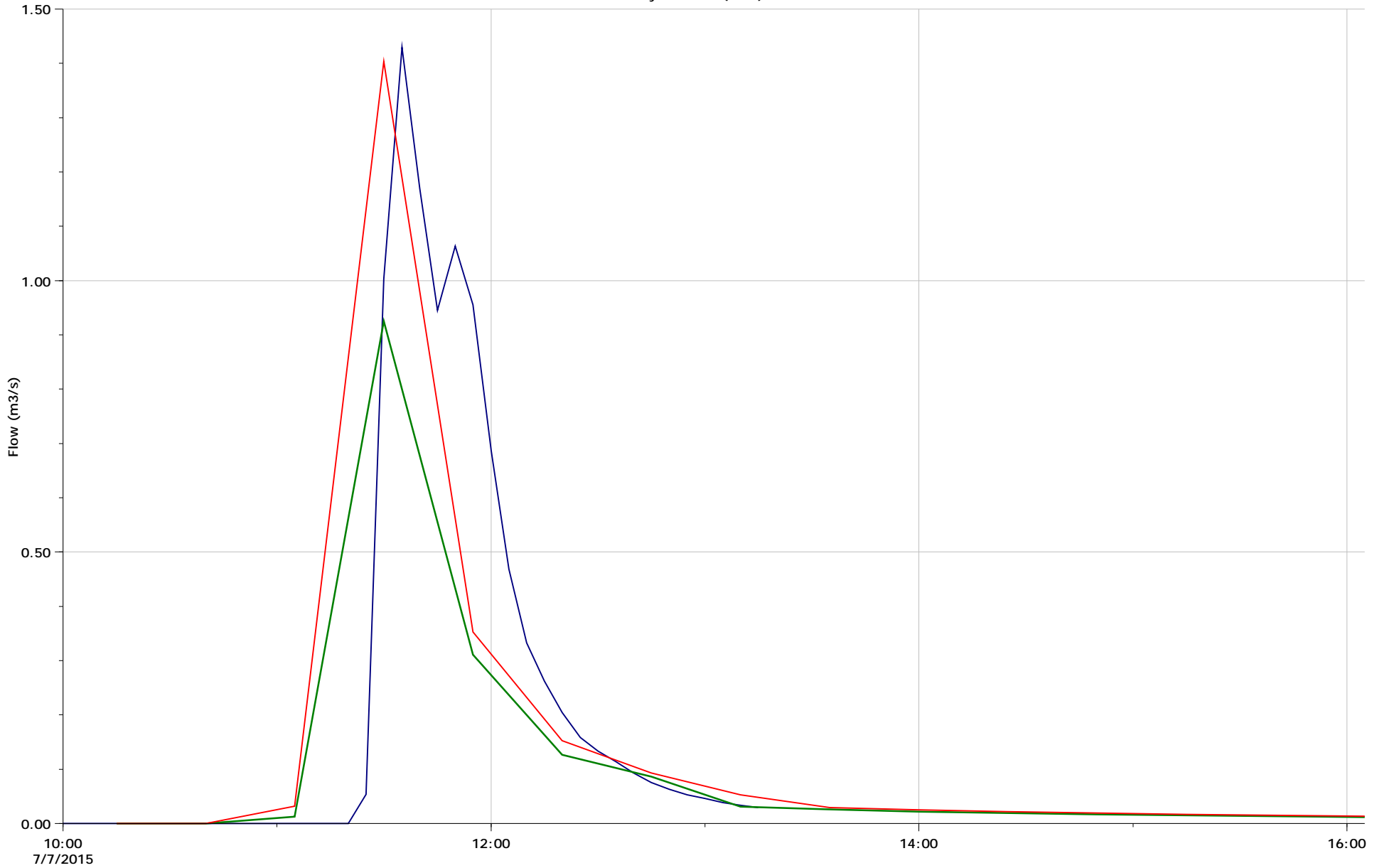


		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	2.161	4848.462
...09_Test_Run_RG1-4_07JUL2015_6HR>RG3-07JUL2015-RG3		0.000	1.451	6137.355

Flow Survey Location (Obs.) 402541.1

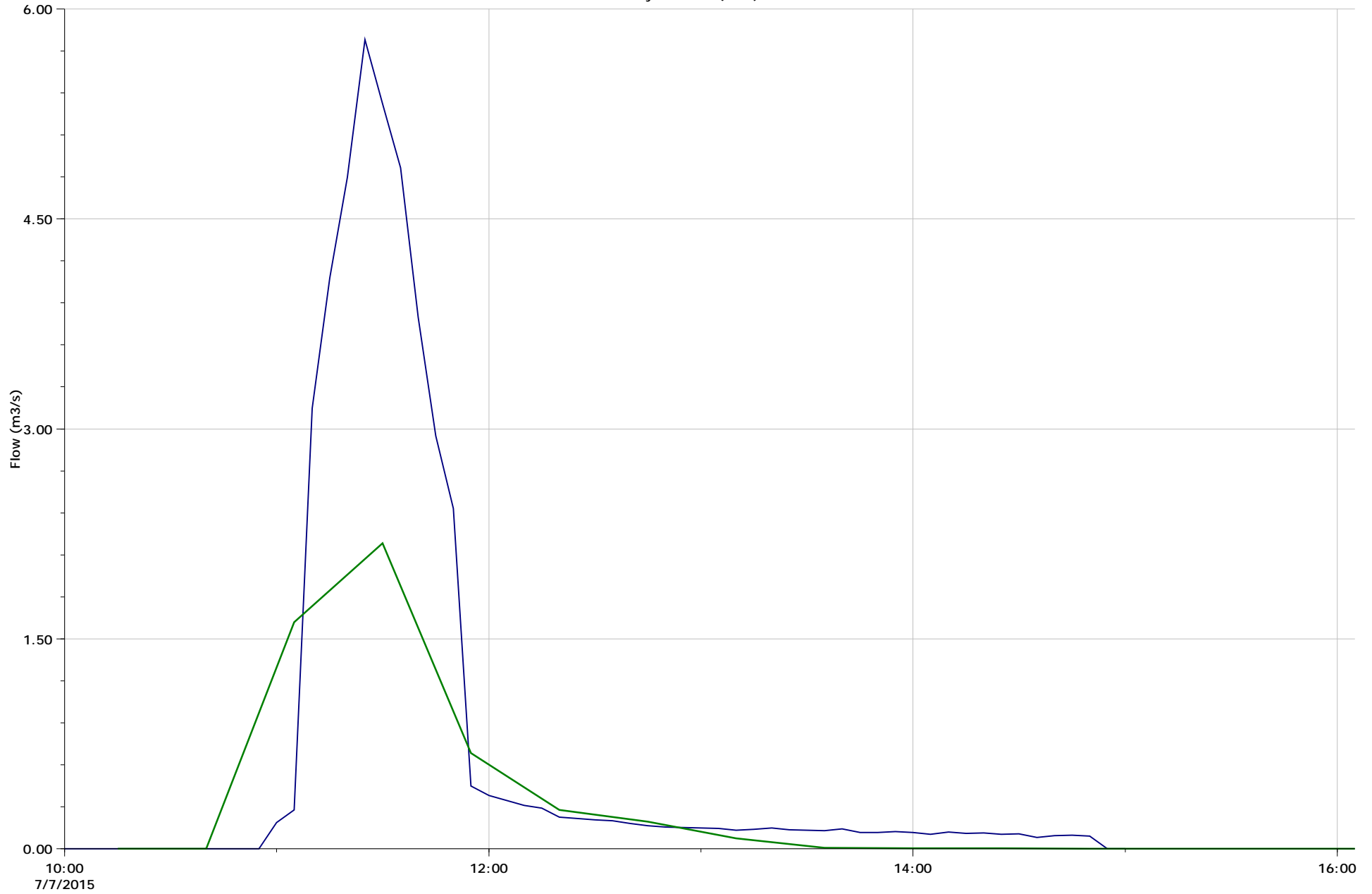




		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	0.407	1265.708
...09_Test_Run_RG1-4_07JUL2015_6HR>RG3-07JUL2015-RG3		-0.000	0.737	1914.282



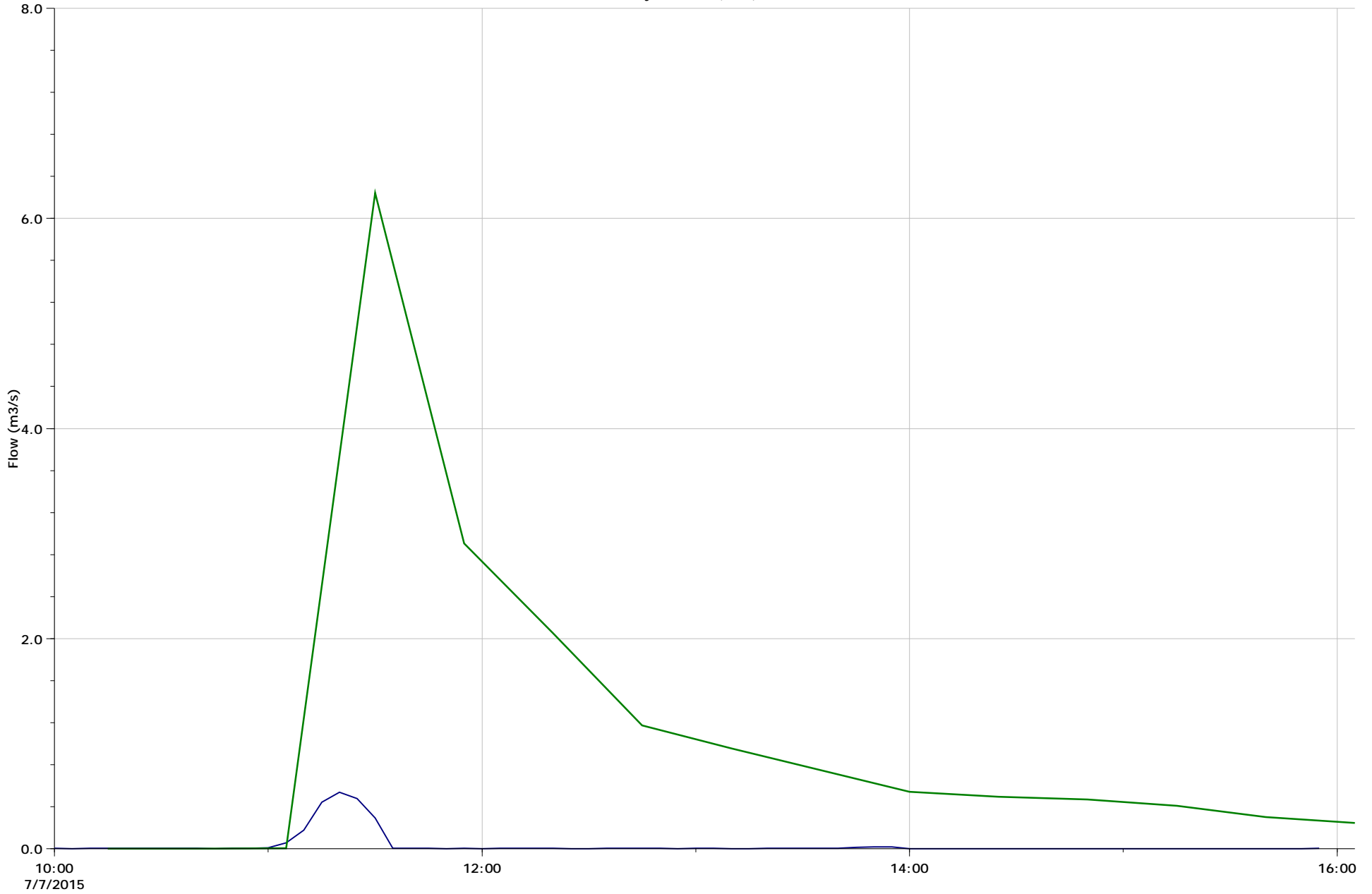
Obs.	Flow (m3/s)		
	Min	Max	Volume (m3)
...09_Test_Run_RG1-4_07JUL2015_6HR>RG3-07JUL2015-RG3	0.000	1.430	2819.531
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4	0.000	0.925	2415.723
	0.000	1.403	3331.451

Flow Survey Location (Obs.) 416178.1



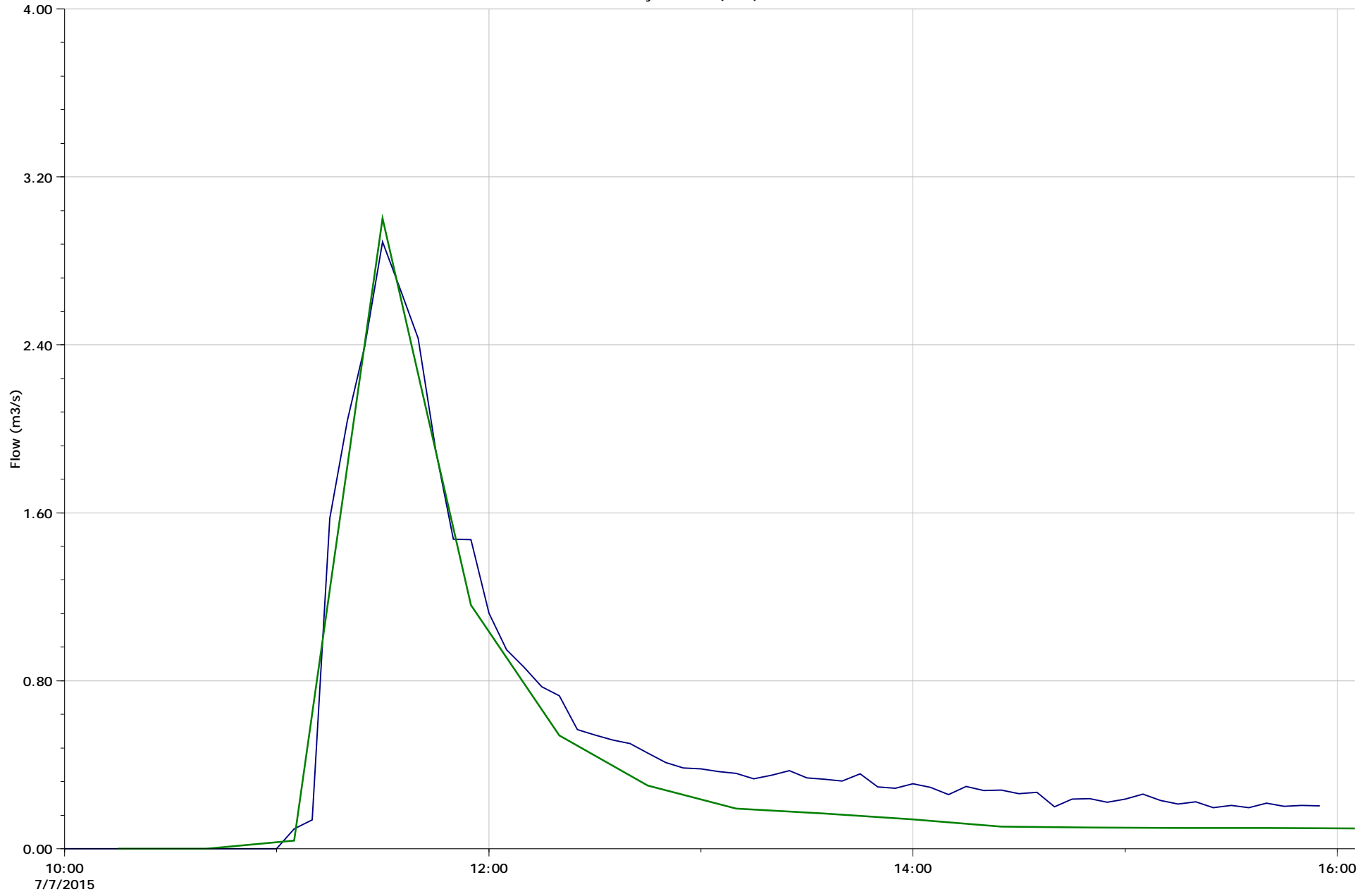
		Flow (m3/s)		Volume (m3)
		Min	Max	
Obs.		0.000	5.780	13094.580
...09_Test_Run_RG1-4_07JUL2015_6HR>RG1-07JUL2015-RG1		-0.000	2.183	7572.957



Flow Survey Location (Obs.) 408926.1



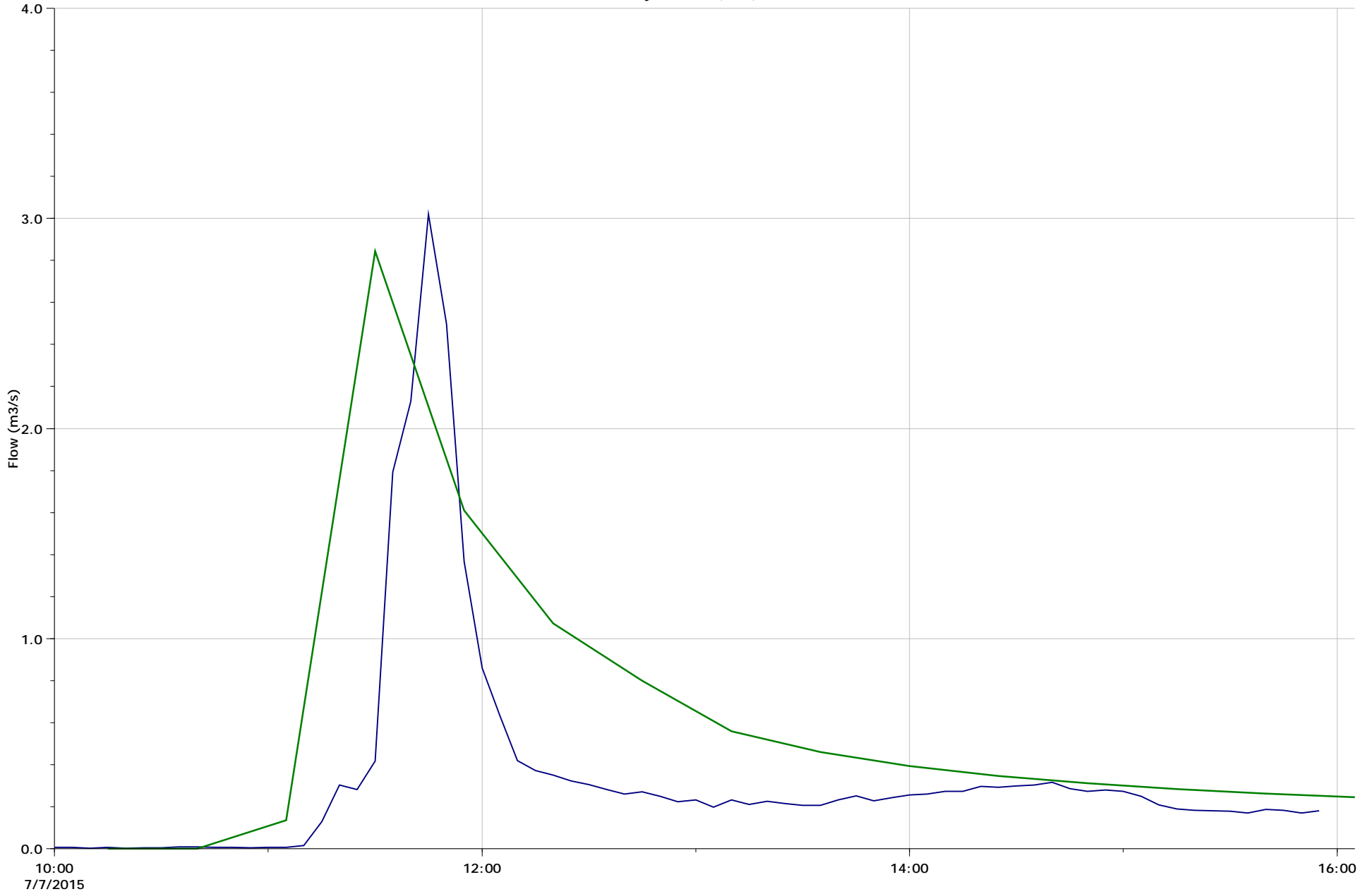
	Flow (m3/s)			Volume (m3)
	Min	Max		
Obs.	0.000	0.537		642.073
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4	0.000	6.243		24616.165



Flow Survey Location (Obs.) 417990.2



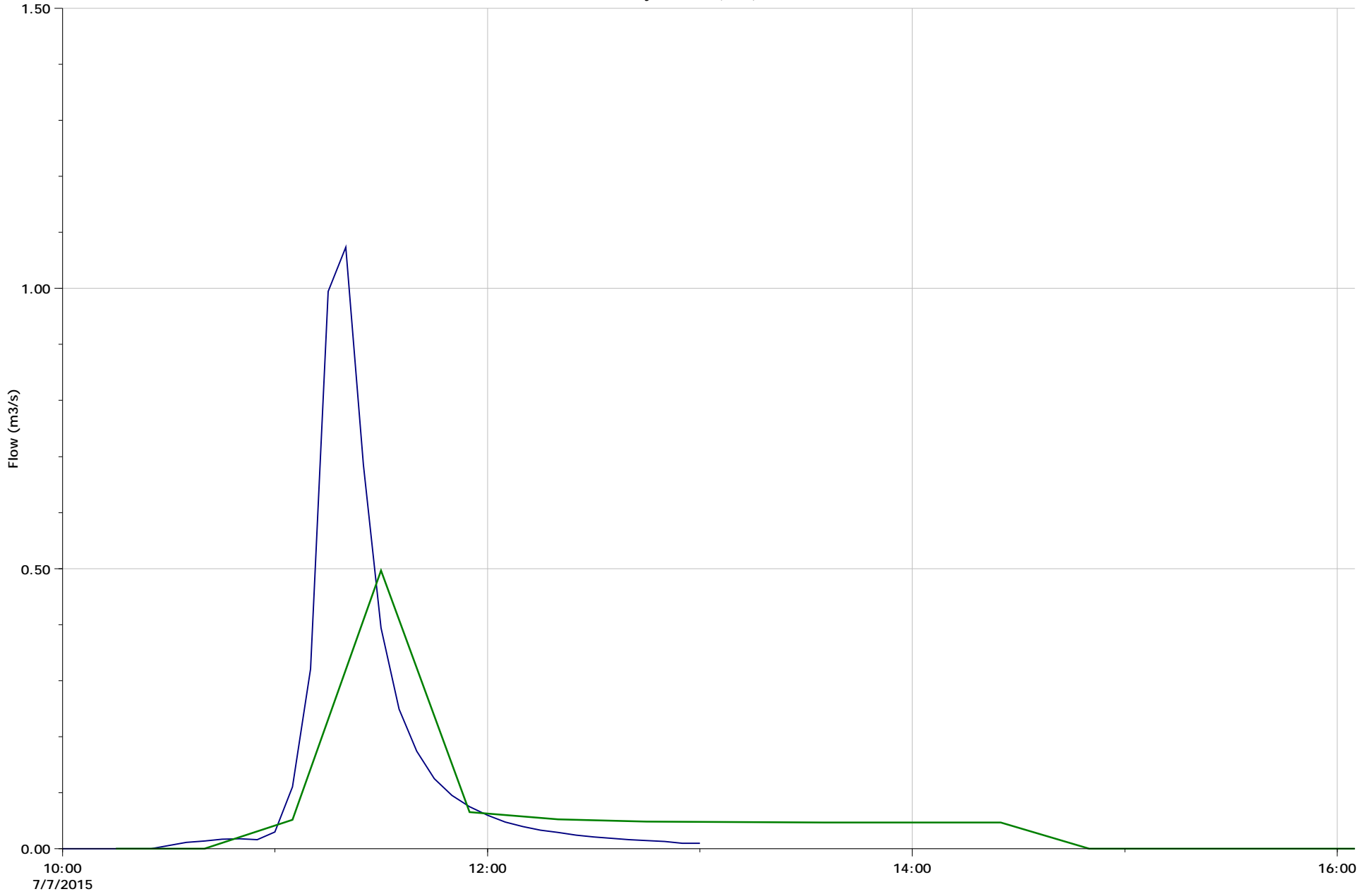
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	2.890	10981.575
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4		-0.000	3.003	8992.634



Flow Survey Location (Obs.) 404820.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.002	3.020	7477.950
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4		0.000	2.843	13804.479

Flow Survey Location (Obs.) 408202.1



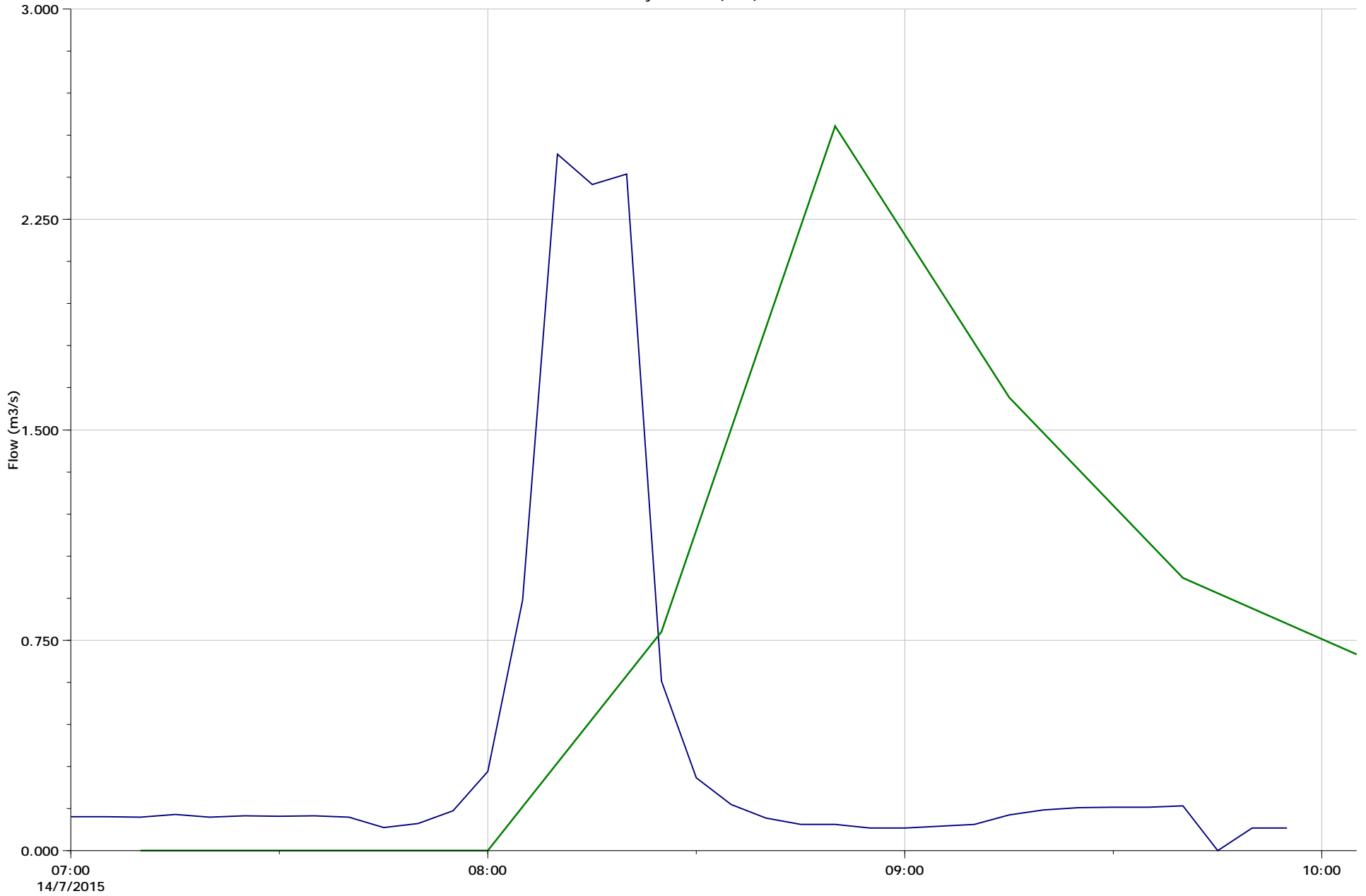
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	1.073	1421.388
...09_Test_Run_RG1-4_07JUL2015_6HR>RG4-07JUL2015-RG4		0.000	0.496	1353.142

Appendix C

Storm System Calibration Curves

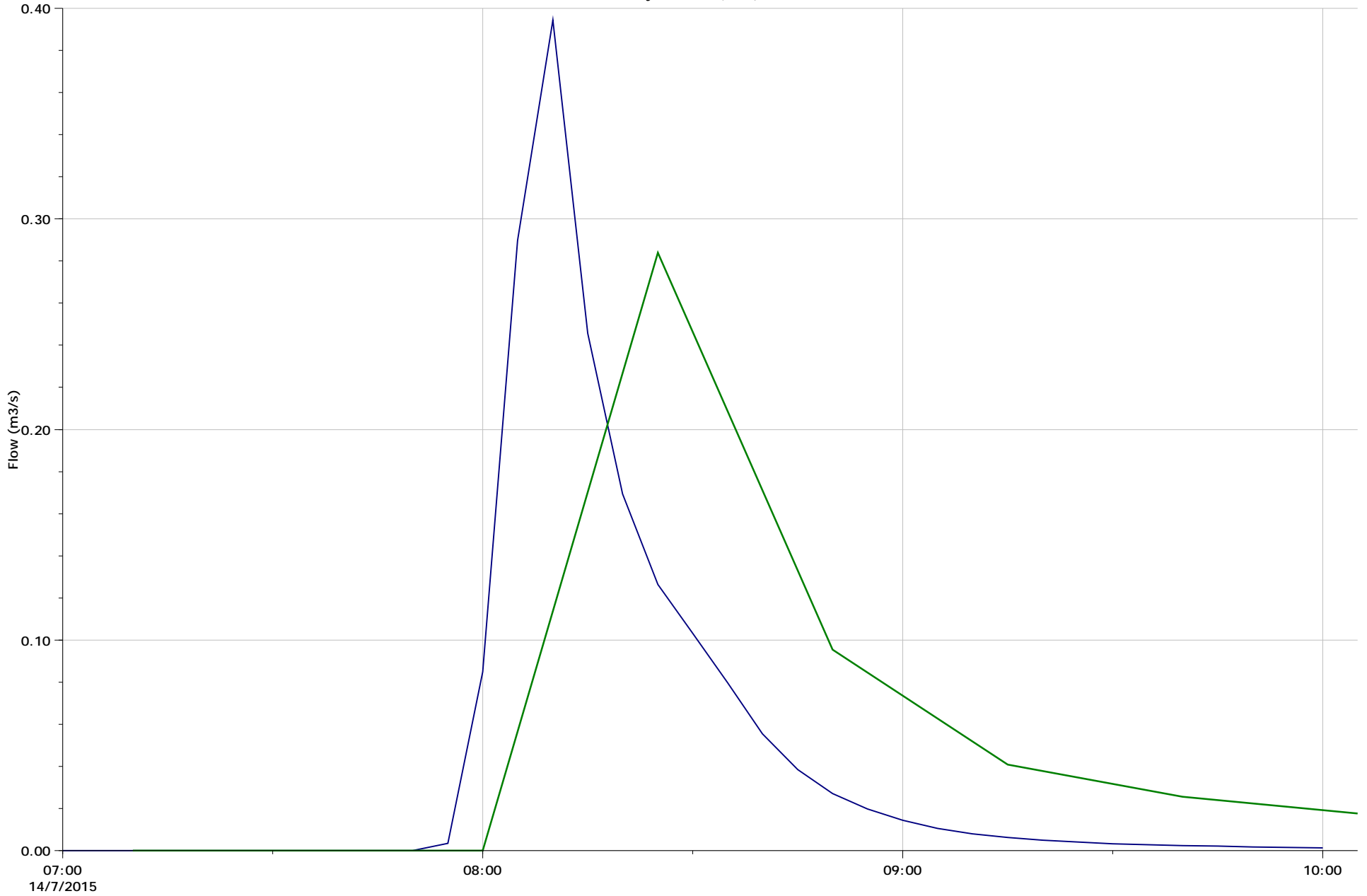
- **July 14th, 2015**

Flow Survey Location (Obs.) 418420.1



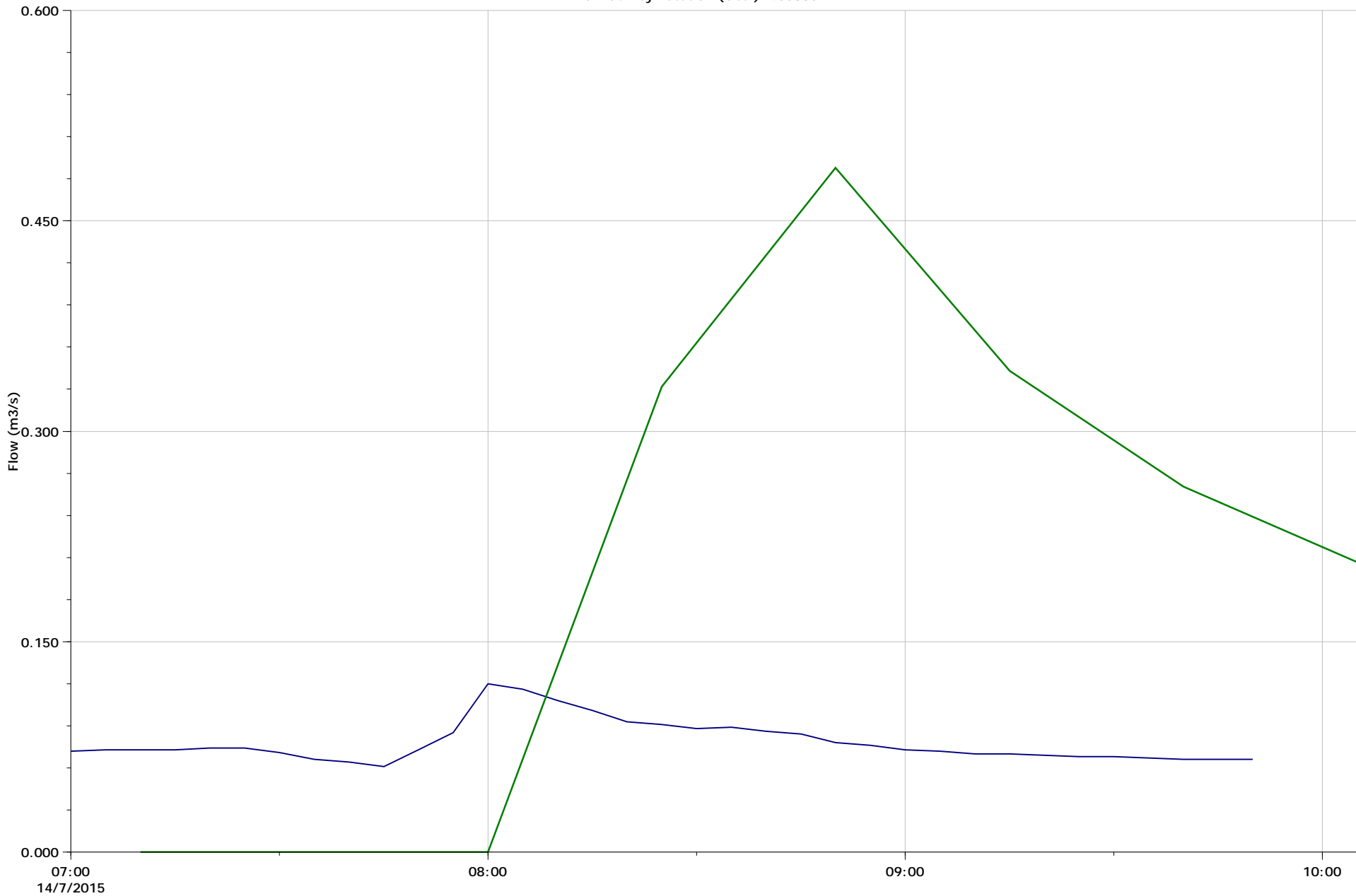
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	2.482	3746.250
...up>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3		-0.000	2.583	9449.662

Flow Survey Location (Obs.) 400868.1



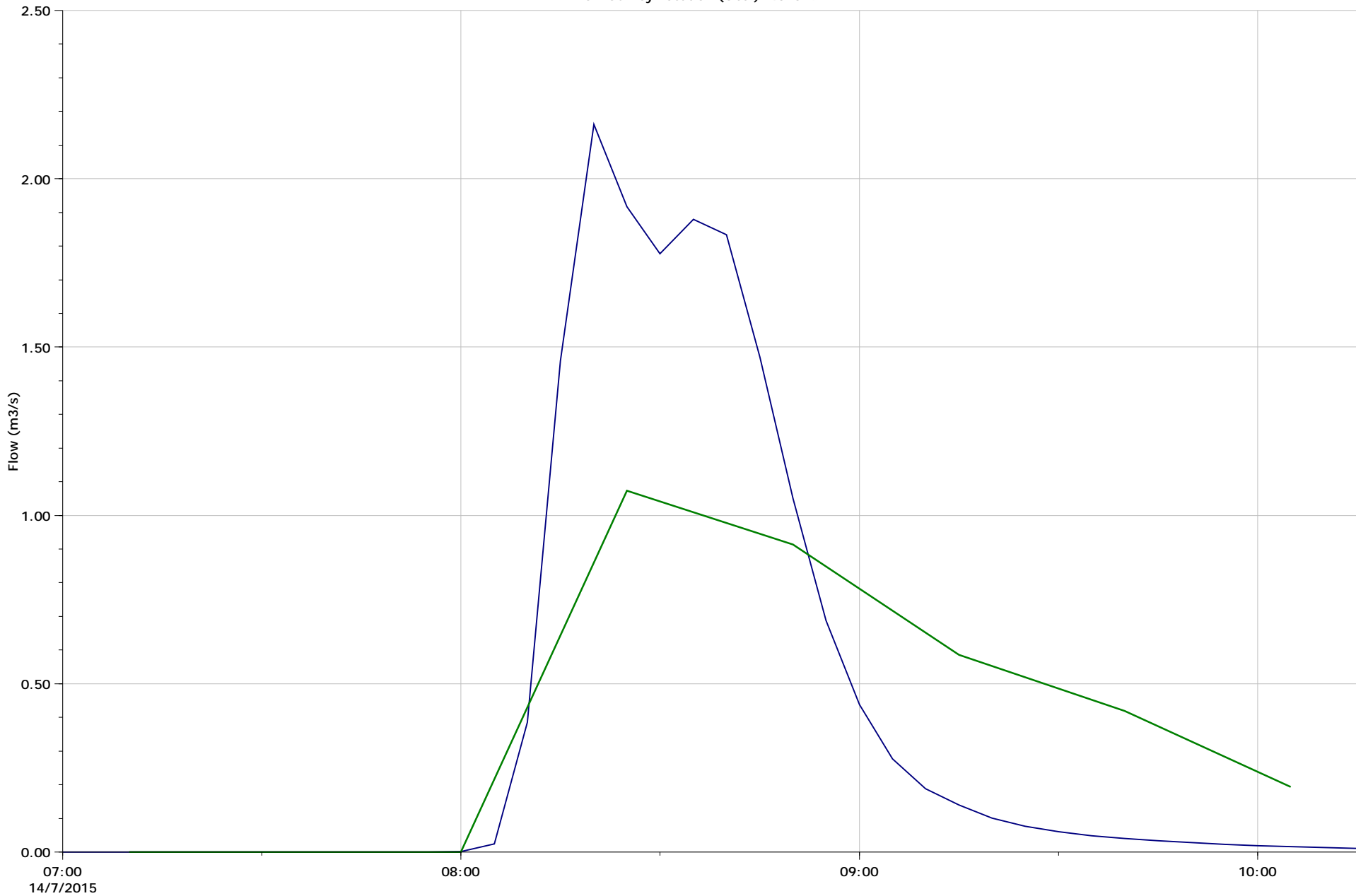
		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	0.394	509.991
...up>208_Test_Run_RG1-4_14JUL2015>RG4-14JUL2015-RG4		0.000	0.284	682.033

Flow Survey Location (Obs.) 403886.1



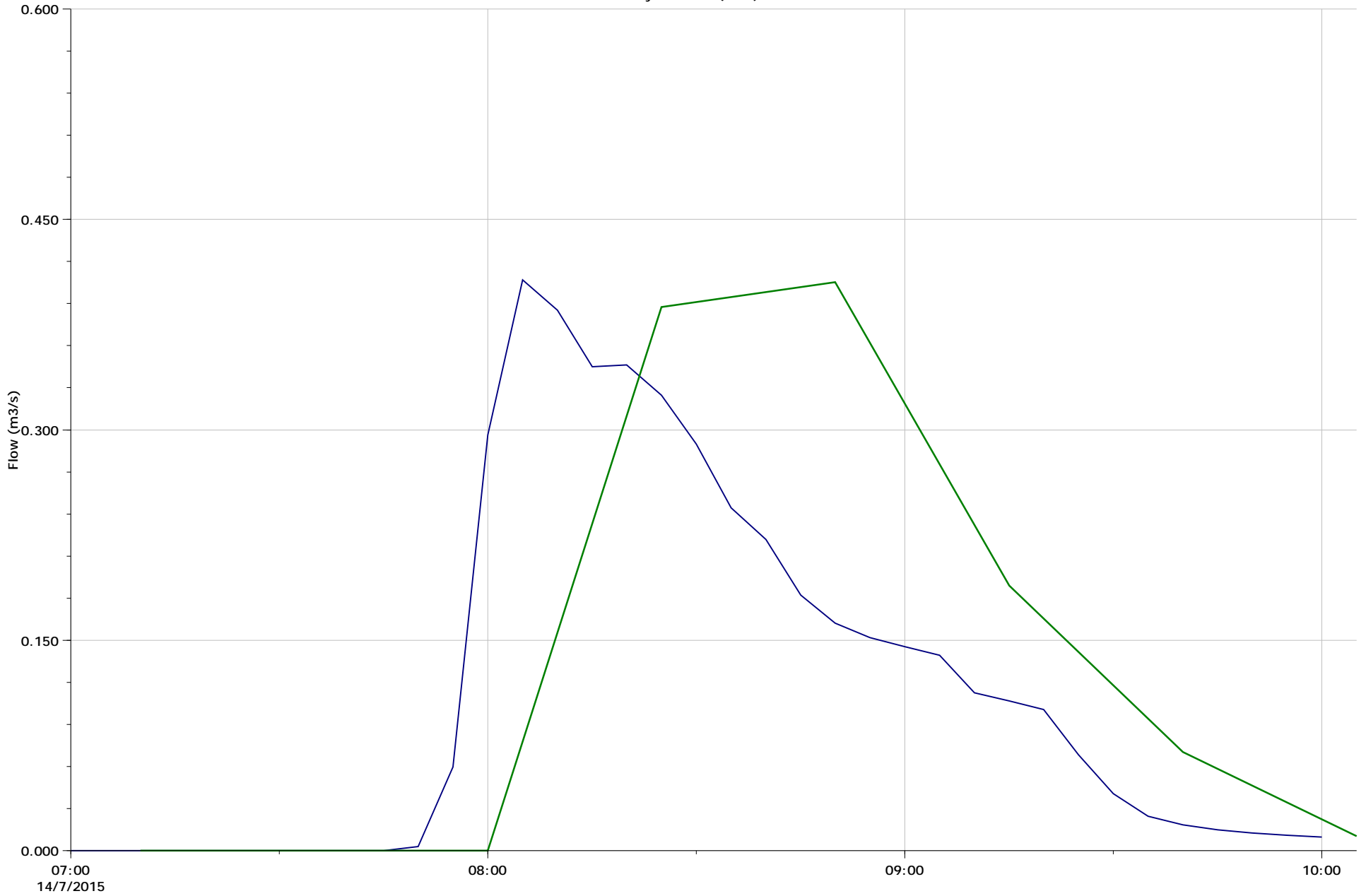
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.061	0.120	802.500
...up>208_Test_Run_RG1-4_14JUL2015>RG2-14JUL2015-RG2		-0.000	0.488	2289.148

Flow Survey Location (Obs.) 402579.1



		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	2.161	4846.811
...up>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3		0.000	1.074	4635.551

Flow Survey Location (Obs.) 402541.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	0.407	1265.708
...up>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3		-0.000	0.405	1585.528

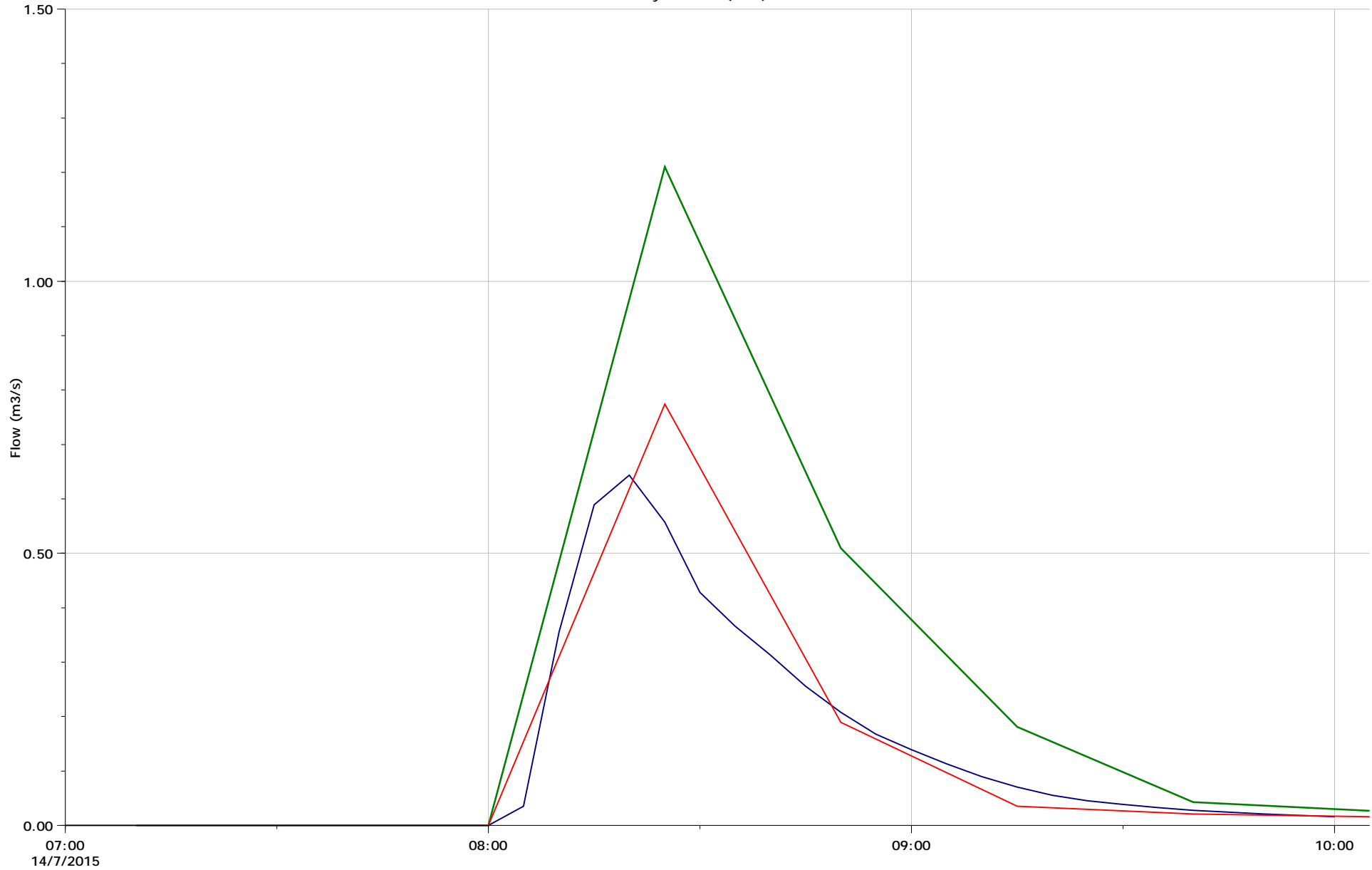
Flow Survey: >Catchment Group>Flow Survey Group>Flow Survey Group-JUL14>FM8-Campbell-900_JUL14 (20/04/2015 10:54:14 AM)

Sim: >Catchment Group>Run Group>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3 (15/12/2015 12:09:10 PM)

Sim: >Catchment Group>Run Group>208_Test_Run_RG1-4_14JUL2015>RG4-14JUL2015-RG4 (15/12/2015 12:08:39 PM)

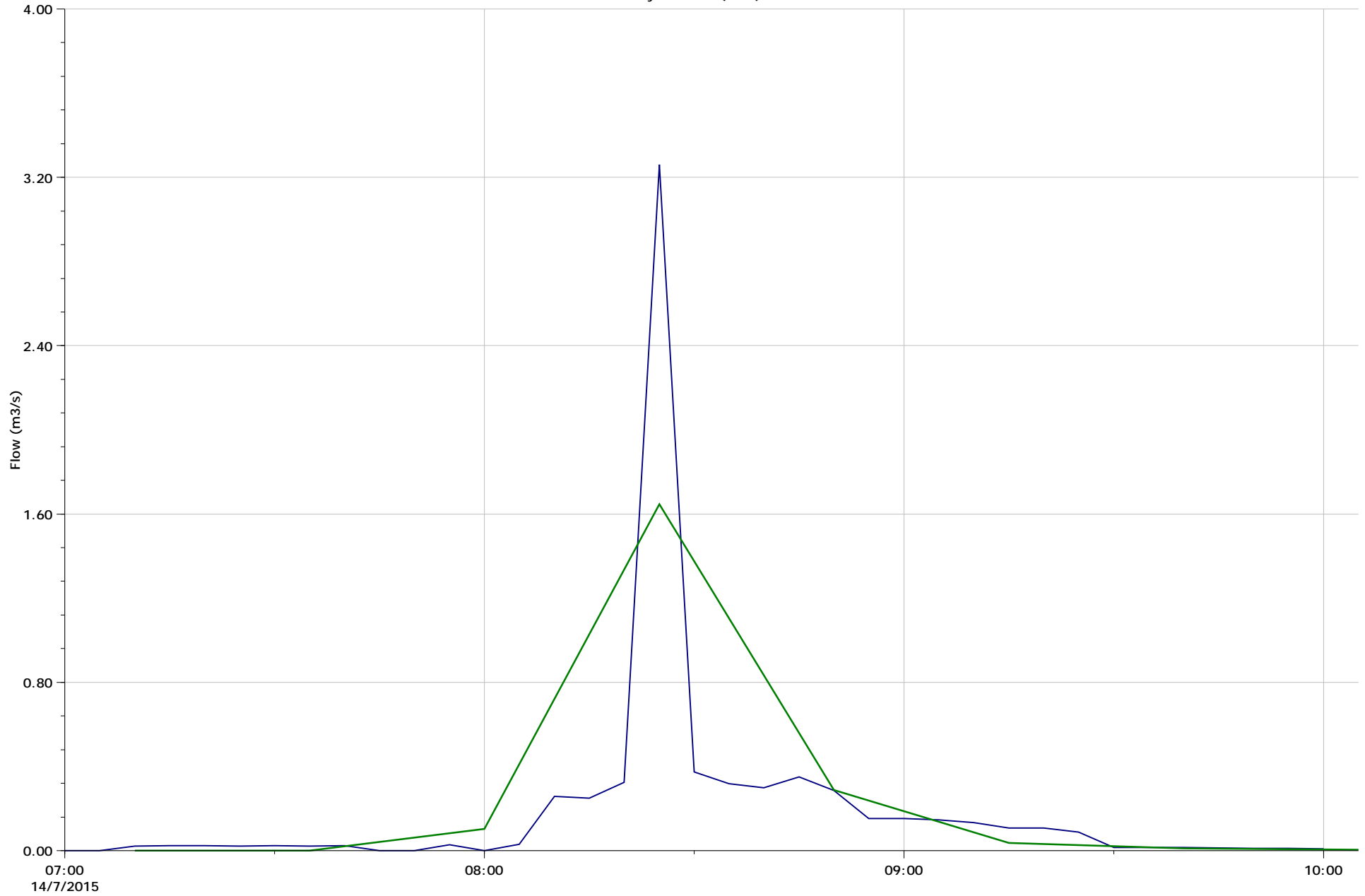
Graph Template: >Catchment Group>Graph Template Group>Graph Template Group_JUL14>Graph FM8 Campbell_JUL14 (08/12/2015 11:46:03 AM)



Flow Survey Location (Obs.) 408204.1



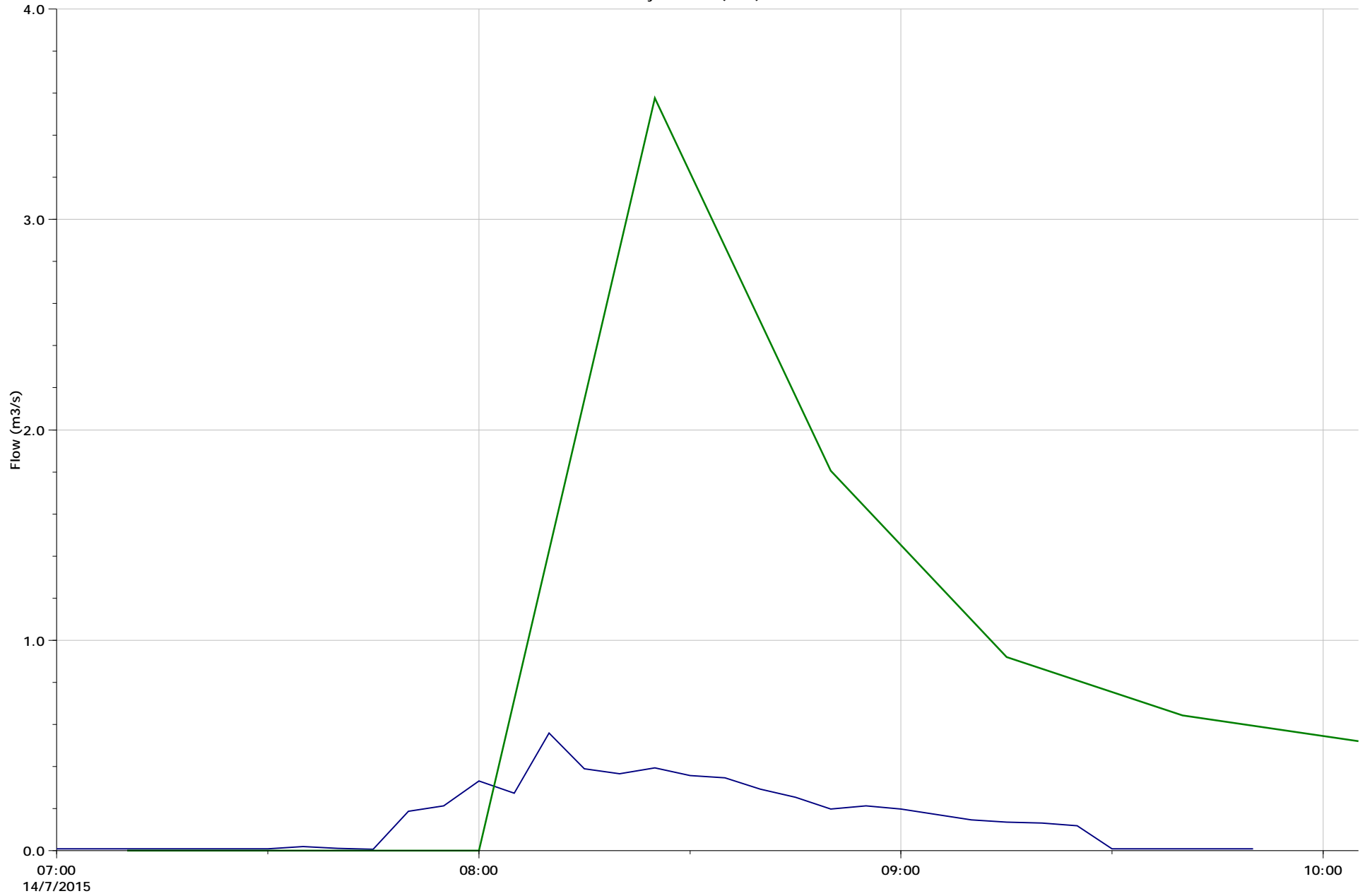
Obs.	Flow (m ³ /s)		
	Min	Max	Volume (m ³)
...up>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3	0.000	1.210	2935.041
...up>208_Test_Run_RG1-4_14JUL2015>RG4-14JUL2015-RG4	0.000	0.775	1542.312

Flow Survey Location (Obs.) 416178.1



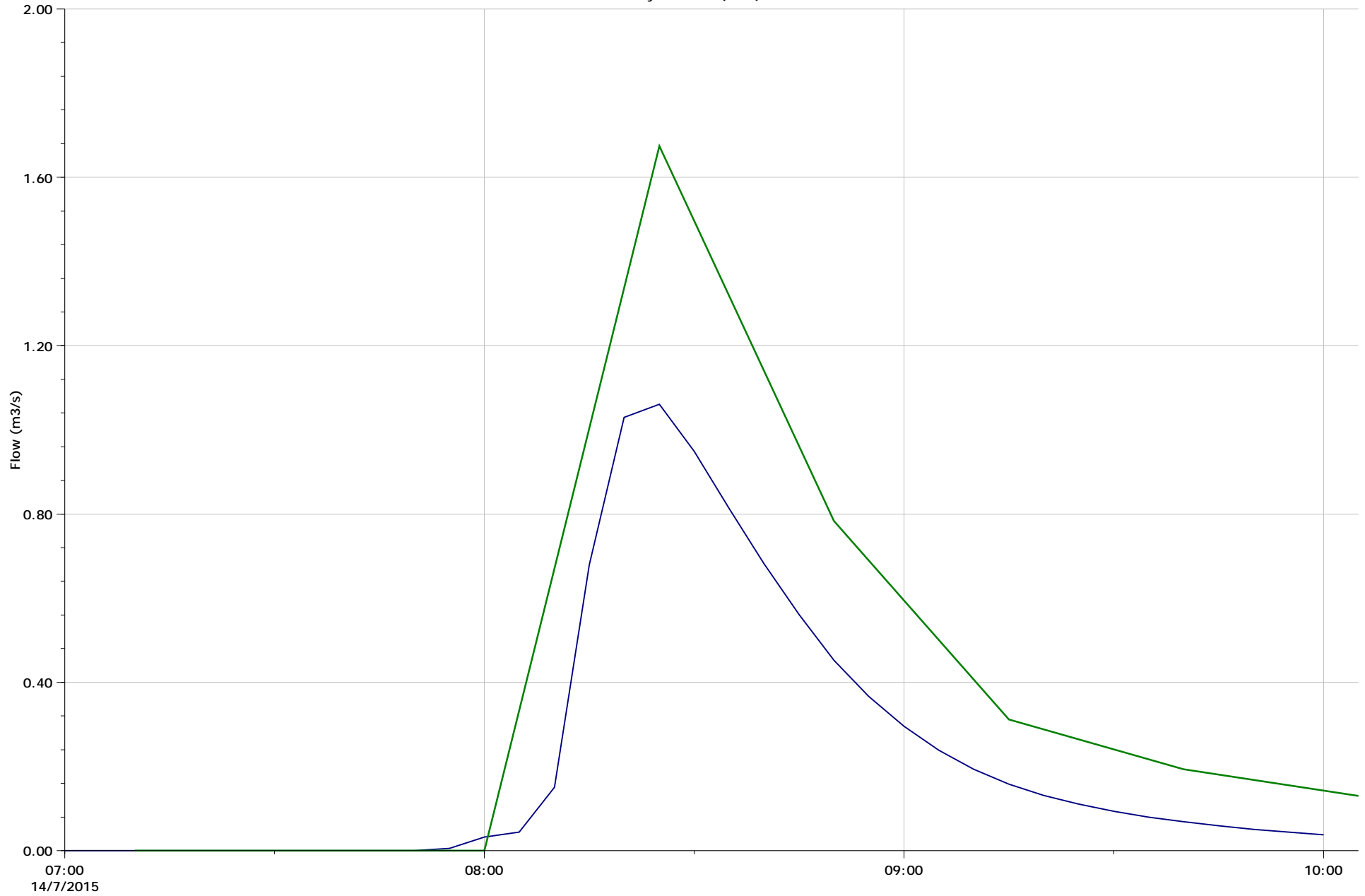
		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	3.261	2073.393
...up>208_Test_Run_RG1-4_14JUL2015>RG1-14JUL2015-RG1		-0.000	1.646	3130.936



Flow Survey Location (Obs.) 408926.1



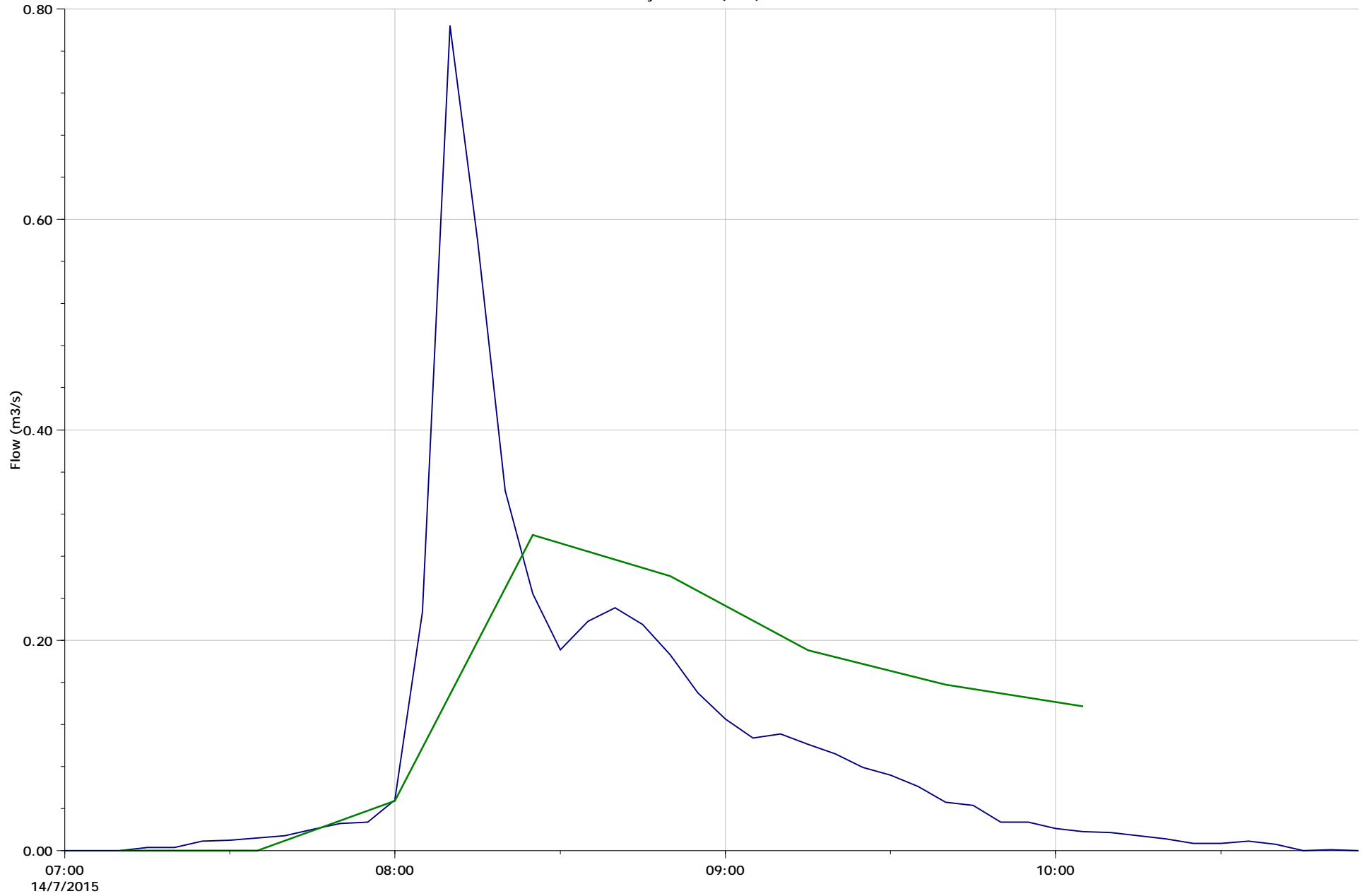
		Flow (m3/s)		Volume (m3)
		Min	Max	
Obs.	—	0.006	0.559	1620.294
...up>208_Test_Run_RG1-4_14JUL2015>RG4-14JUL2015-RG4	—	0.000	3.576	10803.870



Flow Survey Location (Obs.) 417990.2



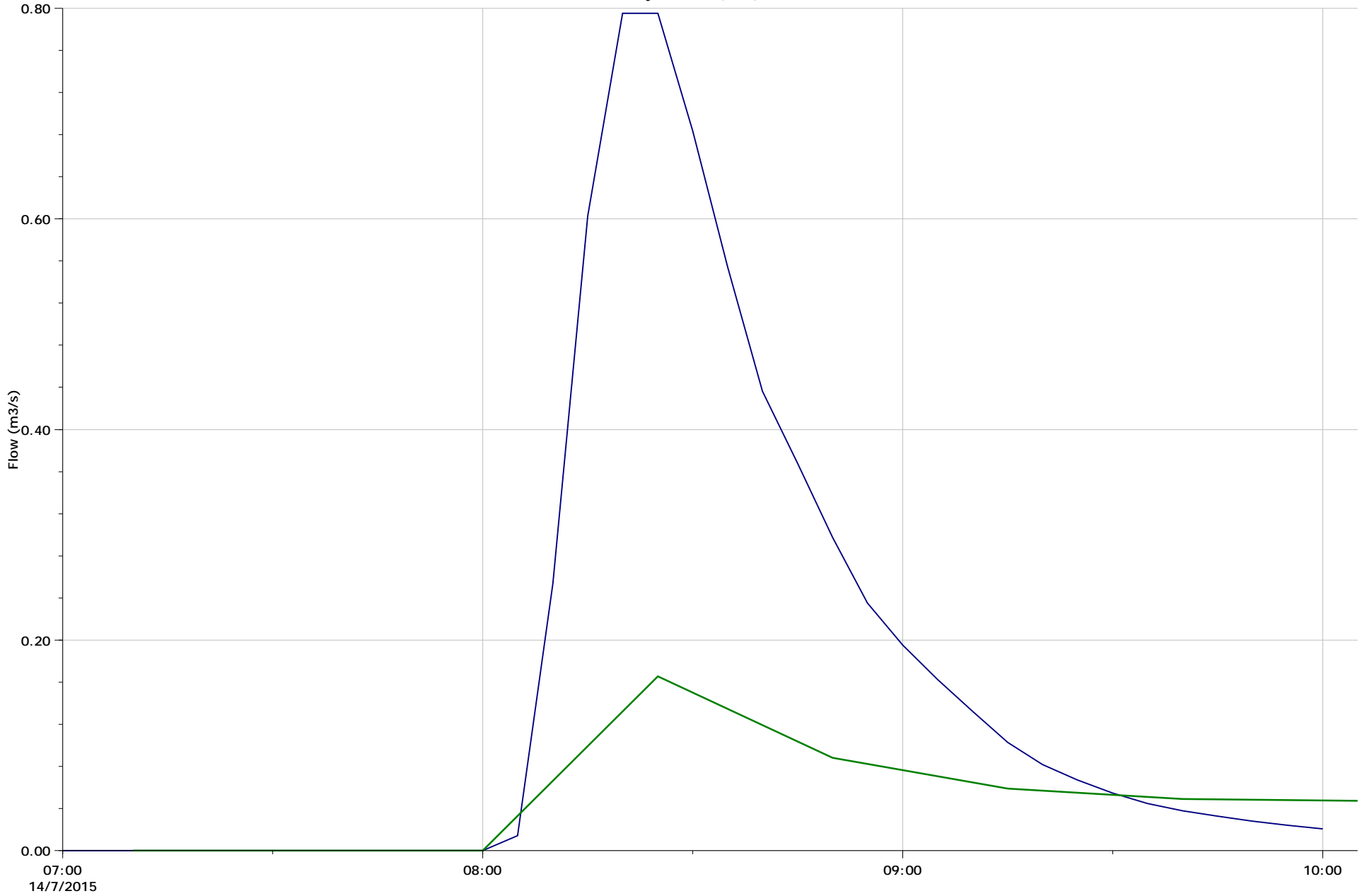
		Flow (m3/s)		
		Min	Max	Volume (m3)
Obs.		0.000	1.061	2510.292
...up>208_Test_Run_RG1-4_14JUL2015>RG4-14JUL2015-RG4		-0.000	1.674	4540.744

Flow Survey Location (Obs.) 404820.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	0.784	1362.600
...up>208_Test_Run_RG1-4_14JUL2015>RG2-14JUL2015-RG2		0.000	0.300	1537.181

Flow Survey Location (Obs.) 408202.1



		Flow (m ³ /s)		
		Min	Max	Volume (m ³)
Obs.		0.000	0.795	1803.252
...up>208_Test_Run_RG1-4_14JUL2015>RG3-14JUL2015-RG3		0.000	0.166	578.059