

Appendix D— Sump Flow Data

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
1-Jan-09	14:00	480	229,082	353	
2-Jan-09	14:15	700	233,872	329	Instantaneous fluctuating between 600 and 800 gpm
3-Jan-09	11:00	800	237,921	325	Totalizer instantaneous readout maxed at 800 gpm
4-Jan-09	11:00	500	242,688	331	Instantaneous fluctuating between 600 and 700 gpm
5-Jan-09	11:00	800	247,516	335	
6-Jan-09	13:00	340	252,489	319	
7-Jan-09	not recorded	750	257,518		Calculated GPM not calculated because time was not recorded
8-Jan-09	not recorded	480	261,914		Calculated GPM not calculated because time was not recorded
9-Jan-09	not recorded	400	266,187		Calculated GPM not calculated because time was not recorded
10-Jan-09	16:30	500	271,566	320	
11-Jan-09	14:00	700	275,413	298	
12-Jan-09	12:10	350	279,869	335	
13-Jan-09	14:40	380	284,867	314	
14-Jan-09	11:30	380	288,829	333	
15-Jan-09	15:30	350	294,122	315	
16-Jan-09	11:00	350	297,778	312	
17-Jan-09	11:55		302,486	315	Instantaneous not recorded
18-Jan-09	10:20	300	306,587	305	
19-Jan-09	10:00	250	311,217	326	
20-Jan-09	11:30	350	315,635	289	
21-Jan-09					No Readings Taken - Severe weather created access problems
22-Jan-09	8:30	320	323,880	305	
23-Jan-09	8:00	300	328,281	312	
24-Jan-09	7:30	300	332,714	314	
25-Jan-09	8:30	300	337,209	300	
26-Jan-09	8:00	300	341,601	311	
27-Jan-09	7:30	125	345,739	293	
28-Jan-09	8:00	100	350,157	301	
29-Jan-09	8:00	100	354,622	310	
30-Jan-09	8:00	150	359,014	305	
31-Jan-09	8:00	150	363,417	306	
1-Feb-09	10:00	450	368,105	301	
2-Feb-09					no reading taken
3-Feb-09	16:35	800	378,256	310	
4-Feb-09	13:30	700	382,102	306	
5-Feb-09	13:30	400	386,519	307	
6-Feb-09	13:30	340	391,878	372	Started south sump electric pump today, installed south sump totalizer
7-Feb-09	7:50	380	395,666	344	
8-Feb-09	13:30	350	401,461	326	
9-Feb-09	13:30	400	406,553	354	
10-Feb-09	13:00	460	411,290	336	
11-Feb-09					no reading taken
12-Feb-09	15:00	360	421,678	346	
13-Feb-09	17:15	320	427,566	374	
14-Feb-09	13:30	320	431,772	346	
15-Feb-09	13:30	340	436,763	347	

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Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
16-Feb-09					no reading taken
17-Feb-09	12:30	400	446,263	337	
18-Feb-09					no reading taken
19-Feb-09					no reading taken
20-Feb-09					no reading taken
21-Feb-09					no reading taken
22-Feb-09					no reading taken
23-Feb-09	10:25	390	475,832	347	
24-Feb-09					
25-Feb-09	11:30	520	484,747	303	
26-Feb-09	15:30	300	491,510	402	
27-Feb-09					
28-Feb-09	16:00	320	499,815	285	
1-Mar-09	13:00	400	504,857	400	
2-Mar-09					No reading taken
3-Mar-09	12:00	300	514,808	353	
4-Mar-09	11:00	300	519,551	344	
5-Mar-09					No reading taken
6-Mar-09	14:05	300	530,138	345	
7-Mar-09	15:55	300	535,372	337	
8-Mar-09					No reading taken
9-Mar-09					no reading taken
10-Mar-09					no reading taken
11-Mar-09					no reading taken
12-Mar-09		300	560,000		No time recorded
13-Mar-09		350	565,996		No time recorded
14-Mar-09		400	570,908		No time recorded
15-Mar-09	10:00	300	573,689	343	
16-Mar-09	13:30	400	579,577	357	
17-Mar-09	14:00		584,356	325	Pumps off for approximately 3-4 hours for pipe tie in
18-Mar-09	13:00		589,223	353	
19-Mar-09	13:30	340	593,645	301	
20-Mar-09	13:30	340	599,152	382	
21-Mar-09	13:30	600	601,521	165	Main seepage pump was off, restarted at 9am
22-Mar-09	13:30	400	608,415	479	
23-Mar-09	13:30	400	613,411	347	
24-Mar-09	13:30	400	618,480	352	
25-Mar-09	13:00	380	623,290	341	
26-Mar-09	13:30	380	628,379	346	
27-Mar-09	13:00	300	633,268	347	
28-Mar-09		400	638,202		No time recorded
29-Mar-09	11:00	380	642,686	341	
30-Mar-09					no reading taken
31-Mar-09					no reading taken
1-Apr-09	21:00	400	659,344	339	
2-Apr-09	21:30	380	664,420	345	

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
3-Apr-09					no reading taken
4-Apr-09	22:30	400	674,167	332	
5-Apr-09	21:00	380	679,428	390	
6-Apr-09	13:41	392	682,379	295	
7-Apr-09	13:30	92	687,237	340	
8-Apr-09					no reading taken
9-Apr-09	16:30	520	696,898	316	
10-Apr-09					no reading taken
11-Apr-09					no reading taken
12-Apr-09					no reading taken
13-Apr-09	13:30	400	716,285	347	
14-Apr-09	14:50	320	721,368	334	
15-Apr-09					
16-Apr-09	11:00	320	730,434	342	
17-Apr-09	18:10	320	736,712	336	
18-Apr-09	15:20	380	741,005	309	
19-Apr-09					no readings taken
20-Apr-09					no readings taken
21-Apr-09					no readings taken
22-Apr-09	21:00	350	757,005	261	
23-Apr-09		350	766,983		time not recorded
24-Apr-09					no readings taken
25-Apr-09					no readings taken
26-Apr-09					no readings taken
27-Apr-09	14:00	350	784,185	408	
28-Apr-09	10:00	360	788,576	366	
29-Apr-09	16:30	540	797,530	459	
30-Apr-09	15:30	560	805,196	556	
1-May-09	14:00	560	812,973	576	
2-May-09		560			unable to check totalizer
3-May-09		560			unable to check totalizer
4-May-09		560			unable to check totalizer
5-May-09	13:00	560			unable to check totalizer
6-May-09	17:30	560			unable to check totalizer
7-May-09	17:30	560			unable to check totalizer
8-May-09	14:00	560			unable to check totalizer
9-May-09	13:00	560			unable to check totalizer
10-May-09	13:00	560			unable to check totalizer
11-May-09		560			unable to check totalizer
12-May-09		560			unable to check totalizer
13-May-09		560			unable to check totalizer
14-May-09		560			unable to check totalizer
15-May-09		560			unable to check totalizer
16-May-09		560			unable to check totalizer
17-May-09		560			unable to check totalizer

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
18-May-09					unable to check totalizer
19-May-09					unable to check totalizer
20-May-09					unable to check totalizer
21-May-09					unable to check totalizer
22-May-09					unable to check totalizer
23-May-09					unable to check totalizer
24-May-09					unable to check totalizer
25-May-09					unable to check totalizer
26-May-09					unable to check totalizer
27-May-09					unable to check totalizer
28-May-09					unable to check totalizer
29-May-09					unable to check totalizer
30-May-09					unable to check totalizer
31-May-09					unable to check totalizer
1-Jun-09					unable to check totalizer
2-Jun-09					unable to check totalizer
3-Jun-09					unable to check totalizer
4-Jun-09					unable to check totalizer
5-Jun-09					unable to check totalizer
6-Jun-09					unable to check totalizer
7-Jun-09					
8-Jun-09		300			estimated instantaneous flow, unable to check totalizer
9-Jun-09		300			estimated instantaneous flow, unable to check totalizer
10-Jun-09					
11-Jun-09		300			estimated instantaneous flow, unable to check totalizer
12-Jun-09		540			estimated instantaneous flow, unable to check totalizer
13-Jun-09		540			estimated instantaneous flow, unable to check totalizer
14-Jun-09		540			estimated instantaneous flow, unable to check totalizer
15-Jun-09		540			estimated instantaneous flow, unable to check totalizer
16-Jun-09		540			estimated instantaneous flow, unable to check totalizer
17-Jun-09		540			estimated instantaneous flow, unable to check totalizer
18-Jun-09		540			estimated instantaneous flow, unable to check totalizer
19-Jun-09		540			estimated instantaneous flow, unable to check totalizer
20-Jun-09		540			estimated instantaneous flow, unable to check totalizer
21-Jun-09		540			estimated instantaneous flow, unable to check totalizer
22-Jun-09					no readings
23-Jun-09					no readings
24-Jun-09					no readings
25-Jun-09					no readings
26-Jun-09					no readings
27-Jun-09					no readings
28-Jun-09					no readings
29-Jun-09					no readings
30-Jun-09					no readings
1-Jul-09	21:00	460	97,164,900		new totalizer

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
2-Jul-09	21:00	430	97,688,700	364	
3-Jul-09	3:00	480	98,457,800	427	
4-Jul-09	1:00	460	99,002,900	413	
5-Jul-09	4:00	460	99,809,200	498	
6-Jul-09	21:30	470	100,308,950	450	
7-Jul-09	21:30	470	100,930,400	432	
8-Jul-09	21:45	470	101,642,050	489	
9-Jul-09					no readings taken
10-Jul-09	23:00	470	102,933,650	437	
11-Jul-09	21:00	470	103,620,850	521	south sump turned on today
12-Jul-09	20:45	410	10,428,550		incorrect totalizer reading, no calculated GPM
13-Jul-09					no readings taken
14-Jul-09					no readings taken
15-Jul-09					no readings taken
16-Jul-09					no readings taken
17-Jul-09					no readings taken
18-Jul-09					no readings taken
19-Jul-09					no readings taken
20-Jul-09	9:00	480	109,295,600	464	
21-Jul-09	10:30	480	109,987,200	452	
22-Jul-09	9:30	470	110,626,700	463	
23-Jul-09	8:45	470	111,267,600	459	
24-Jul-09	14:15	480	111,590,600	181	Power outage from 8pm to 4am, sump pumps off during this time
25-Jul-09	9:15	480	112,132,250	475	
26-Jul-09	8:45	480	112,815,500	485	
27-Jul-09	9:00	470	113,519,310	484	
28-Jul-09	14:00	480	114,352,750	479	
29-Jul-09	8:45	480	114,907,300	493	
30-Jul-09	8:45	480	115,612,100	489	
31-Jul-09	8:45	490	116,309,500	484	
1-Aug-09	9:00	490	117,010,050	481	
2-Aug-09	8:40	490	117,696,400	483	
3-Aug-09					no readings taken
4-Aug-09					no readings taken
5-Aug-09					no readings taken
6-Aug-09			12,957,410		time not recorded
7-Aug-09					no reading taken
8-Aug-09					no reading taken
9-Aug-09					no reading taken
10-Aug-09	20:15	480	13,189,870		
11-Aug-09	2:00	480	13,295,580	306	totalizer is stuck
12-Aug-09					totalizer is stuck
13-Aug-09					totalizer is stuck
14-Aug-09	1:30	490	123,899,100		A second pump moved 820,000 gallons from main sump to TSF.
15-Aug-09	20:15	490	124,454,250	493	A second pump moved 820,000 gallons from main sump to TSF.

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
16-Aug-09	20:15	690	125,216,700	529	A second pump moved 820,000 gallons from main sump to TSF.
17-Aug-09	20:15	500	125,855,800	444	A second pump moved 820,000 gallons from main sump to TSF.
18-Aug-09	20:30	500	126,577,000	496	A second pump moved 820,000 gallons from main sump to TSF.
19-Aug-09	20:30	500	127,265,000		A second pump moved 820,000 gallons from main sump to TSF.
20-Aug-09					no readings taken
21-Aug-09	20:15	500	128,724,100		
22-Aug-09	20:15	500	129,394,750	466	
23-Aug-09			129,742,000		time not recorded
24-Aug-09			130,423,000		time not recorded
25-Aug-09			131,053,000		time not recorded
26-Aug-09			131,869,000		time not recorded
27-Aug-09			132,414,000		time not recorded
28-Aug-09			133,157,000		time not recorded
29-Aug-09			133,926,000		time not recorded
30-Aug-09					no data
31-Aug-09					no data
1-Sep-09					no data
2-Sep-09					no data
3-Sep-09					no data
4-Sep-09		500			time and totalizer reading not taken
5-Sep-09	13:15	520	139,142,000		
6-Sep-09	10:30	500	139,775,300	497	
7-Sep-09					no data
8-Sep-09	9:00	500	141,188,400	506	
9-Sep-09					no data
10-Sep-09	10:00	500	142,669,500	525	
11-Sep-09	9:30	500	143,361,150	491	
12-Sep-09	8:30	500	144,051,200	500	
13-Sep-09	10:20	500	144,812,000	491	
14-Sep-09	9:00	550	145,442,500	470	north sump electric pump failed, trash pump currently running
15-Sep-09	9:00	570	146,137,100	482	running on trash pump
16-Sep-09					no data
17-Sep-09	9:00	500	147,486,700	469	
18-Sep-09	9:15	600	148,138,950	448	
19-Sep-09	10:35	600	149,030,400	585	
20-Sep-09	12:00	650	149,095,000	42	probably an incorrect totalizer reading
21-Sep-09	9:00	650	15026385(?)		incorrect totalizer reading, no calculated GPM
22-Sep-09	12:30	550	151,110,850	469	
23-Sep-09					diesel pump in use, no flow meter reading
24-Sep-09					diesel pump in use, no flow meter reading
25-Sep-09			151,247,240		diesel pump in use, no flow meter reading
26-Sep-09	9:30		151,247,220		pump is off
27-Sep-09			151,247,240		pump on but no flow meter
28-Sep-09					main sump on but no flow meter
29-Sep-09					diesel pump in use, no flow meter reading

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
30-Sep-09					diesel pump in use, no flow meter reading
1-Oct-09					diesel pump in use, no flow meter reading
2-Oct-09					diesel pump in use, no flow meter reading
3-Oct-09					diesel pump in use, no flow meter reading
4-Oct-09					
5-Oct-09					
6-Oct-09					
7-Oct-09					
8-Oct-09					
9-Oct-09					
10-Oct-09					
11-Oct-09					
12-Oct-09	21:10	430	81,536,800		
13-Oct-09	20:00	450	82,169,000	461	
14-Oct-09					running, but flow meter is disconnected
15-Oct-09					running, but flow meter is disconnected
16-Oct-09					running, but flow meter is disconnected
17-Oct-09					running, but flow meter is disconnected
18-Oct-09					running, but flow meter is disconnected
19-Oct-09					no data
20-Oct-09					no data
21-Oct-09					running, but flow meter is disconnected
22-Oct-09					running, but flow meter is disconnected
23-Oct-09					running, but flow meter is disconnected
24-Oct-09					running, but flow meter is disconnected
25-Oct-09					
26-Oct-09					
27-Oct-09					
28-Oct-09					
29-Oct-09					
30-Oct-09					
31-Oct-09					
1-Nov-09	9:15	450	88,296,200		
2-Nov-09	9:30	425	88,977,300	468	
3-Nov-09	10:00	425	89,664,800	468	
4-Nov-09	10:15	425	90,346,800	469	
5-Nov-09					No reading taken
6-Nov-09	10:00	425	91,524,400	411	
7-Nov-09	10:00	425	92,171,700	450	
8-Nov-09	10:30	425	92,839,900	455	
9-Nov-09					No flowmeter
10-Nov-09					No flowmeter
11-Nov-09					No flowmeter
12-Nov-09					No flowmeter
13-Nov-09					No flowmeter

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
14-Nov-09					No flowmeter
15-Nov-09					No flowmeter
16-Nov-09					No flowmeter
17-Nov-09					No flowmeter
18-Nov-09					No flowmeter
19-Nov-09					No flowmeter
20-Nov-09					No flowmeter
21-Nov-09					No flowmeter
22-Nov-09					No flowmeter
23-Nov-09					installing new pump
24-Nov-09					No flowmeter
25-Nov-09					No flowmeter
26-Nov-09					No flowmeter
27-Nov-09					No flowmeter
28-Nov-09					No flowmeter
29-Nov-09					No flowmeter
30-Nov-09					No flowmeter
1-Dec-09					No flowmeter
2-Dec-09					No flowmeter
3-Dec-09					No flowmeter
4-Dec-09					No flowmeter
5-Dec-09					No flowmeter
6-Dec-09					No flowmeter
7-Dec-09					No flowmeter
8-Dec-09					No flowmeter
9-Dec-09					No flowmeter
10-Dec-09					No flowmeter
11-Dec-09					No flowmeter
12-Dec-09					No flowmeter
13-Dec-09					No flowmeter
14-Dec-09					No flowmeter
15-Dec-09					No flowmeter
16-Dec-09					No flowmeter
17-Dec-09					No flowmeter
18-Dec-09					No flowmeter
19-Dec-09					No flowmeter
20-Dec-09					No flowmeter
21-Dec-09					No flowmeter
22-Dec-09					No flowmeter
23-Dec-09					No flowmeter
24-Dec-09					No flowmeter
25-Dec-09					No flowmeter
26-Dec-09					No flowmeter
27-Dec-09					No flowmeter
28-Dec-09					No flowmeter

Appendix D—Main and South Sump Combined Flow Data

Date	Time	Instantaneous Flow (gpm)	Totalizer Reading (X100)	Calculated Rate (gpm)	Comments
29-Dec-09					No flowmeter
30-Dec-09					No flowmeter
31-Dec-09					No flowmeter