# **Section 4**

Mono Basin Tributaries: Lee Vining, Rush, Walker, and Parker Creeks

**Monitoring Results and Analysis For Runoff Season 2011-12** 



Mono Basin Tributaries: Lee Vining, Rush, Walker, and Parker Creeks

FINAL ANNUAL REPORT

Monitoring Results for

Runoff Year 2011-12

Prepared by
Los Angeles Department of Water and Power

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## 1. Introduction

During the Runoff Year (RY) 2011, synoptic discharge measurements, groundwater elevation monitoring, tributary water temperature monitoring, ice monitoring and Grant Lake Reservoir water temperature monitoring continued. Those data are summarized and reported in this RY 2011-12 Annual Report. The Parker and Walker creeks sediment bypass operation was also conducted in June and July, 2011. Los Angeles Department of Water and Power (LADWP) was operating under the one year flow variance approved from State Water Resources Control Board (SWRCB) during the RY2011. Hereon the Runoff Year 2011 or period starting on April 1, 2011, and ending on March 31, 2012 is referred to as RY 2011.

## 2. HYDROLOGY

#### 2.1 HYPOTHETICAL SEF HYDROGRAPHS

The Mono Basin Synthesis Report recommended Stream Ecosystem Flows (SEFs) replace the current Order 98-05 SRFs. LADWP attempted to follow the Synthesis Report recommendation in RY 2011 after the one year flow variance approved from SWRCB. LADWP was able to closely follow the recommended SEF, but the condition of GLR on April 1 prevented LADWP from fully implementing the Rush Creek SEF. Hydrographs for four tributaries and Grant Lake Reservoir Spill are presented in Figures 1 through 5, and daily average flows are available in the tabular format in Appedices 5-1 through 5-7. Hypothetical Rush Creek and Lee Vining Creek SEF hydrographs were constructed for RY2011 and compared to the actual RY2011 flow releases. The comparison showed very little difference between SRF and SEF hydrographs in Lee Vining Creek except in September, when the actual release was lower than the SEF (Figure 6). The comparison for the period April 1 to January 31 indicated that similar flow volumes would be released below the Conduit: 62,245 AF for the RY2011 actual release and 63,748 AF for SEF flows.

The actual Rush Creek flows were much higher throughout the peak snowmelt period due to high GRL level throughout the summer (Figure 7). GLR began spilling on March 28, 2011, and the spill continued until August 16. The peak spill (224 cfs on June 17) did not coincide with the peak MGORD release (377 cfs between July 9 and 12) and the peak flow of Rush Creek at Damsite (395 cfs) was below the recommended SEF peak flow of 650 cfs. Therefore, achieving the peak release for both MGORD and GLR spill was not possible in RY2011. The fall and winter baseflows were higher than the SEF recommended baseflows because the variance ended and Mono Basin operations returned to Order 98-05 flow regimes.

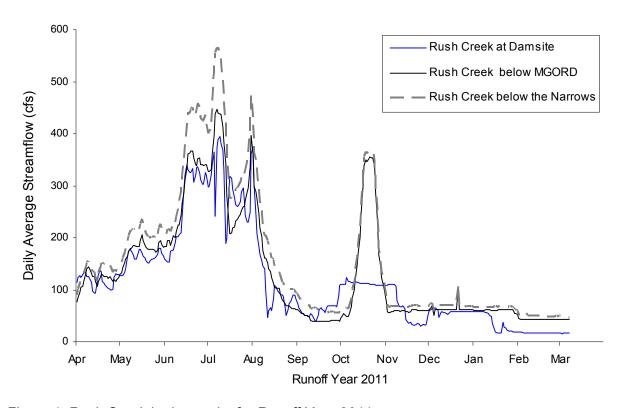


Figure 1. Rush Creek hydrographs for Runoff Year 2011.

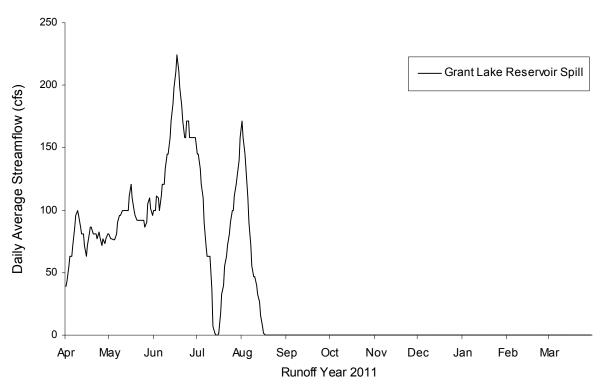


Figure 2. Grant Lake Reservoir Spill hydrographs for Runoff Year 2011.

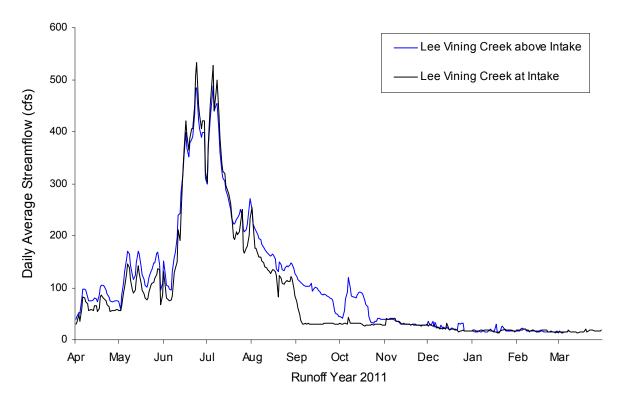


Figure 3. Lee Vining Creek hydrographs for Runoff Year 2011.

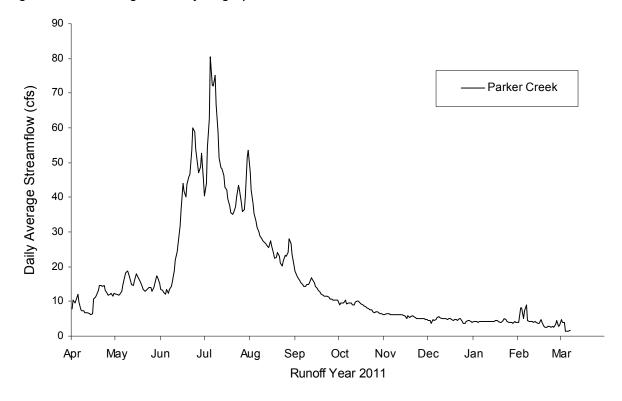


Figure 4. Parker Creek hydrographs for Runoff Year 2011.

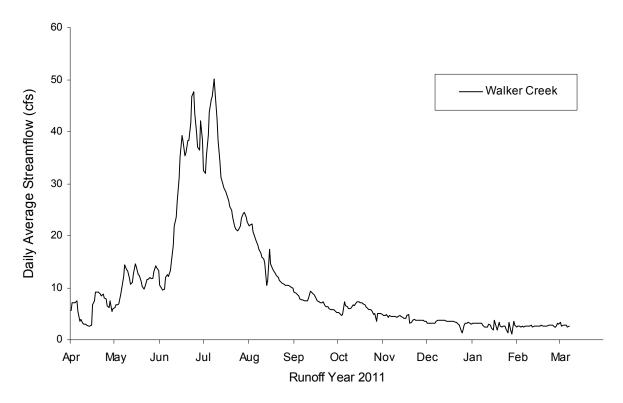


Figure 5. Walker Creek hydrographs for Runoff Year 2011.

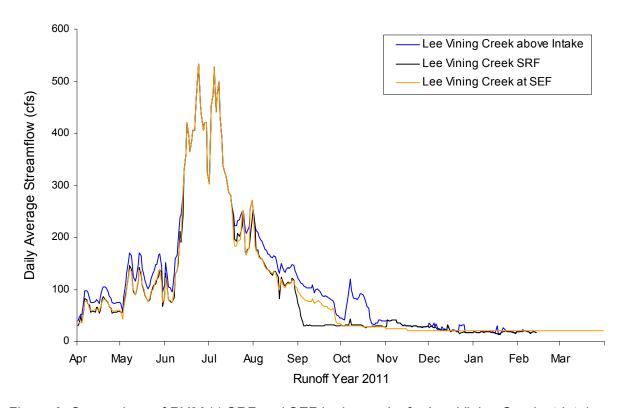


Figure 6. Comparison of RY2011 SRF and SEF hydrographs for Lee Vining Creek at Intake.

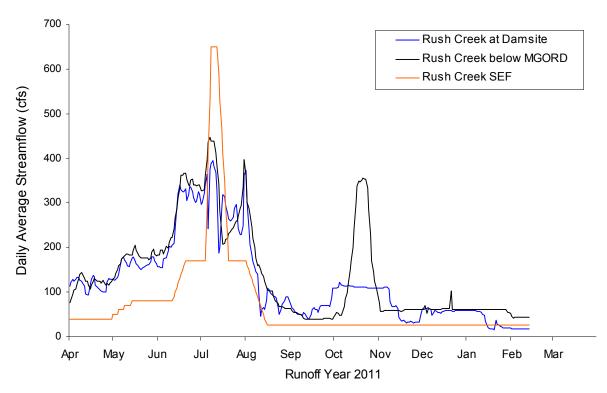


Figure 7. Comparison of RY2011 SRF and SEF hydrographs for Rush Creek below the Return Ditch.

#### 2.2 WINTER BASEFLOW

The winter baseflow for Rush Creek was maintained approximately at 70 cfs until the end of January and lowered to approximately 50 cfs at the beginning of February (Figure 8). For Lee Vining Creek, the flow through condition was maintained throughout winter months.

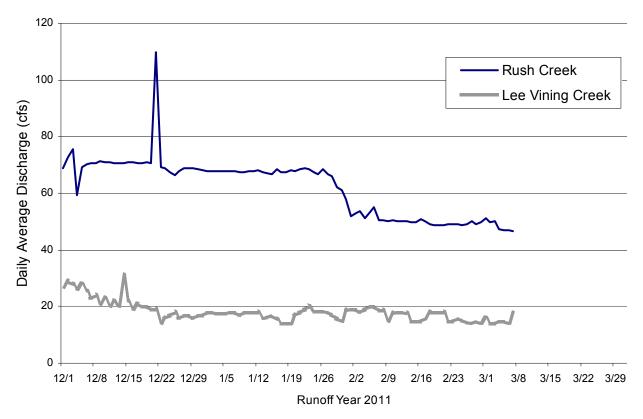


Figure 8. Winter baseflow during RY2011 for Rush and Lee Vining creeks.

LADWP staff began monitoring the ice condition in Lee Vining Creek on December 16 with three time-lapse cameras and in Rush Creek on December 27 with one time-lapse camera. Three cameras were installed at transects which had been previously monitored (Lee Vining Creek DR and DP, Rush Creek P5-8). One camera was set up in a riffle section upstream of Lee Vining DR (LV R2) (Figures 9 and 10). Average temperature in December was 1°F lower than the 24-year average, but was 5°F higher than in 2009, the first winter of ice monitoring. The coldest period during the monitoring was observed between December 20 and 26. The daily minimum air temperature remained below 5°F, and the daily average air temperatures remained below 32°F (Figure 11).

During the monitoring period, daily formation and breakup of anchor ice was observed at LV R2 (see photos in Appendix B-1). At Lee Vining DR anchor ice formed on December 22 and remained in place until December 24 (see photos in Appendix B-2). The anchor ice, then, was converted into shelf ice on December 24 and persisted until December 28. A similar pattern of ice formation may have occurred during the first two weeks of December because of a similar temperature regime. Photos taken at LV R2 showed anchor ice formation more clearly than the one at DR because of a better angle relative to the sun and a higher vantage point. At the monitoring sites, the longest duration of anchor ice was three days.

There were 28 days with anchor ice formation based on photos at LV R2 between December 19 and March 9. All but two of the 28 days were days when the daily minimum temperature was at or below 0°F (Figure 12). Based on this close relationship, anchor ice may have formed daily during the first half of December in Lee Vining Creek.

At LV DP (pool section), the most extensive surface ice cover was observed during the period between December 23 and 28, but the surface ice disappeared on December 29. The extensive surface ice cover was also found on January 16 and 17, when the daily minimum air temperature decreased to 1°F and 0°F, respectively. No other extensive surface ice cover was observed (see photos in Appendix B-3).

The Rush Creek pool section, 5P-8, remained ice-free throughout the monitoring period (December 27 and March 9). The ice condition during the cold period in December was not monitored. However, ice formation would have been less extensive during the period than that found at LV DP because water temperature was higher in Rush Creek than in Lee Vining Creek and no extensive ice formation was observed at 5P-8 on January 16 and 17 (see photos in Appendix B-4).

The winter of RY2011 had the second lowest netAFDD (net or maximum Accumulated Freezing Degree Days) (166) since 1991 based on Cain Ranch temperature data (Table 1). The average netAFDD since RY1991 (the 21 year average \*) was 419. The netAFDDs from past two winters, 400 and 281 for RY2009 and RY2010 respectively, were also below the 21 year average, but both values were higher than what was recorded during RY2011. There was only one day with the daily maximum air temperature below 32°F ( $\theta$ <32°F), the second lowest number of days since RY1991. The daily average air temperature was below 32°F ( $\mu$ <32°F) for 61 days, the fourth lowest number of days since RY1991.

Extensive ice formation was found only during the month of December in Lee Vining Creek. Occurrence of anchor ice would have been less in Rush Creek, and its extent would have been much smaller than in Lee Vining Creek due to higher water temperature. Pool sections in both creeks remained relatively ice free through out the winter.

\*

<sup>\*</sup> RY2007 was not included because no weather data were collected during most of the 2007-08 winter due to equipment malfunction.

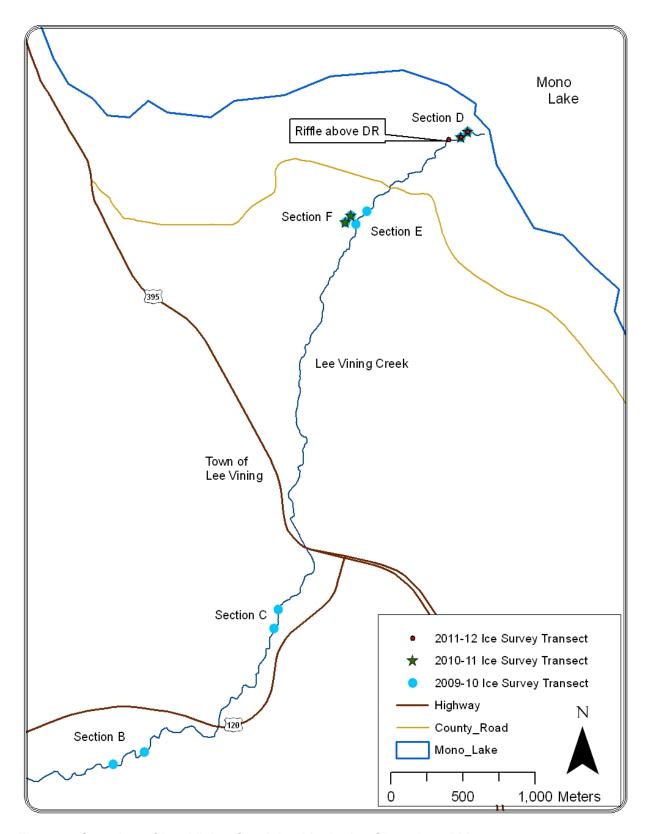


Figure 9. Overview of Lee Vining Creek Ice Monitoring Sites since RY2009.

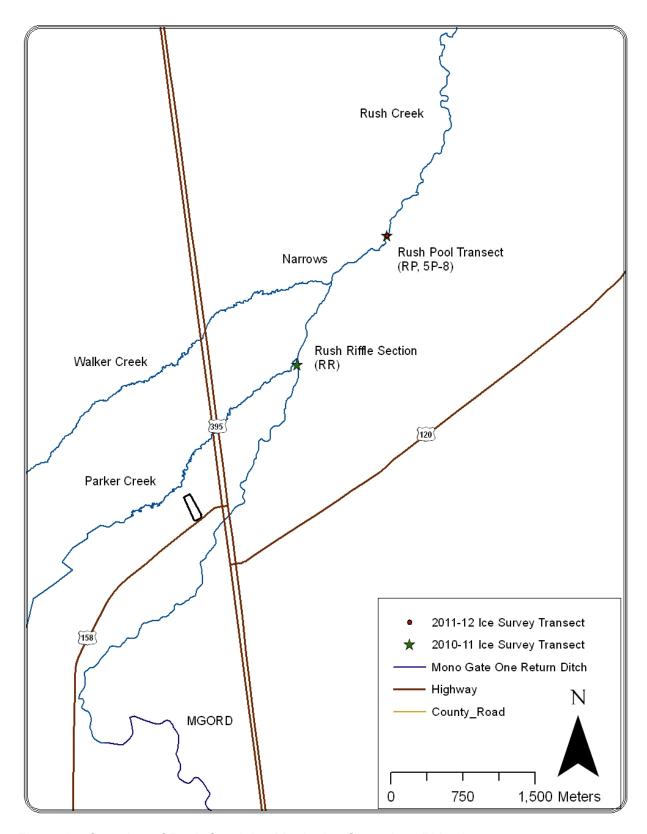


Figure 10. Overview of Rush Creek Ice Monitoring Sites since RY2010.

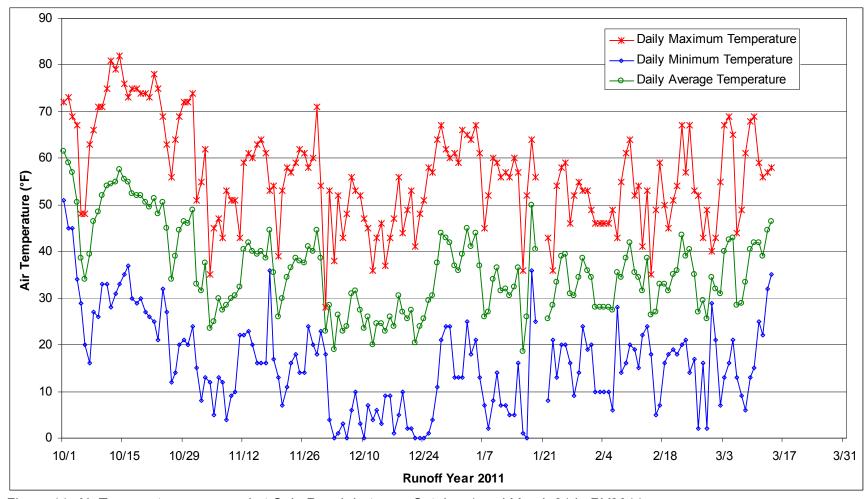


Figure 11. Air Temperature measured at Cain Ranch between October 1 and March 31 in RY2011.

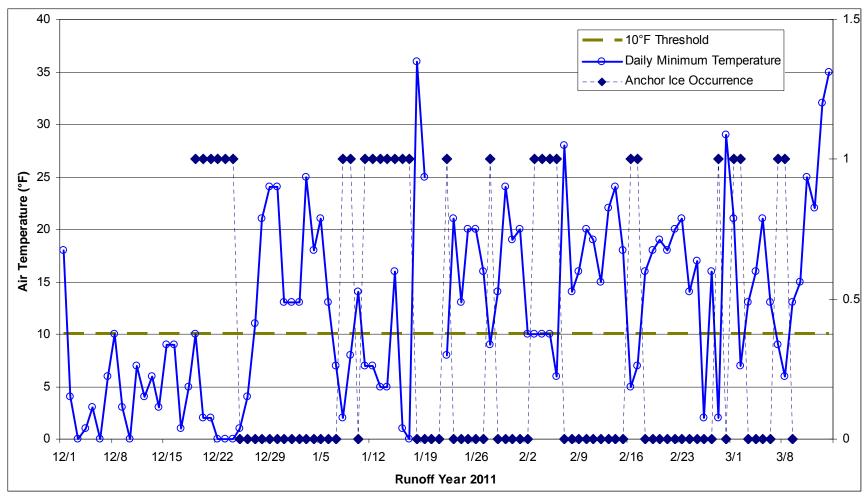


Figure 12. Relationship between anchor ice formation and daily maximum air temperature at Riffle 2 (R2) of Lee Vining Creek in RY2011. One along the second y-axis indicates presence of anchor ice. Zero indicates absence of anchor ice.

Table 1. Historical netAFDD (net or maximum accumulated freezing degree days), date of the maximum AFDD, and numbers of days during which daily maximum air temperature ( $\theta$ ) and daily average air temperature ( $\mu$ ) were below 32°F since the winter of 1991-92 (RY1991) based on Cain Ranch weather station data.

		Date of maximum				
Year	netAFDD	AFDD	No.days θ<32°F	No.days μ<32°F		
1991-92	628	2/18/1992	15	72		
1992-93	1075	3/12/1993	35	102		
1993-94	464	2/2/1994	1	80		
1994-95	537	2/17/1995	8	96		
1995-96	201	3/6/1996	8	56		
1996-97	258	2/28/1997	8	68		
1997-98	783	3/11/1998	9	106		
1998-99	323	2/15/1999	7	68		
1999-00	141	1/6/2000	0	68		
2000-01	575	3/5/2001	6	83		
2001-02	414	2/5/2002	5	74		
2002-03	364	2/12/2003	4	70		
2003-04	411	3/4/2004	2	80		
2004-05	506	2/19/2005	9	79		
2005-06	324	3/22/2006	2	74		
2006-07*	308	2/2/2007	3	54		
2008-09	236	2/21/2009	2	58		
2009-10	400	2/10/2010	6	80		
2010-11	281	3/7/2011	5	71		
<b>2011-12</b> 166		12/26/2011	1	61		
Average						
Overall	419		7	75		
RY1991-2000	490		10	80		
RY2001-2011	360		4	71		

 $<sup>\</sup>theta$  = Daily Maximum Air Temperature

μ = Daily Average Air Temperature

<sup>\*</sup> Data are missing after February 23, 2007 in RY2006-2007, so the actual daily maximum and minimum air temperatures may have been slightly higher

#### 2.3 SYNOPTIC STREAMFLOW GAGING

#### 2.3.1 Mono Basin Tributaries

Instantaneous measurements of streamflow along the Rush and Lee Vining creek corridors (referred to as synoptic measurements) were conducted once for Parker, Walker, and Lee Vining creeks and twice for Rush Creek during RY2011. The past two years of monitoring have provided LADWP with flow loss rates under a wide range of flow conditions. There was a gap in data for Rush Creek at the flow range over 70 cfs. Thus, a synoptic flow measurement at Rush Creek was conducted to fill the data gap. Because of prolonged spill from Grant Lake Reservoir throughout the summer and flow ramping in the fall, the target flow range was only achieved between the end of August and beginning of September. Synoptic flow measurements were conducted in Parker, Waker and Lee Vining creeks during the same period as Rush Creek.

The measurement locations and methods are summarized in Table 2. Rush Creek measurements were conducted at MGORD releases of 50.3 cfs and 73.4 cfs on August 30 and September 7, respectively. Due to time constraints, a complete measurement of Rush Creek with all stations plus Parker Creek and Walker Creek synoptic measurements was not performed. On August 30, no measurements were taken at Old Hwy 395 Bridge, Parker Creek at Mouth, and Walker Creek at Mouth. Rush Creek at County Road and Parker and Walker creeks at Mouth were not measured on September 7. Parker and Walker creeks synoptic measurements were conducted on September 14. Lee Vining Creek synoptic measurement was conducted on September 19. The following discussion highlights the summary data presented in Table 3.

<u>Upper Rush Creek.</u> Upper Rush Creek from the MGORD to the Narrows had two subreaches for which flow losses were computed: from the MGORD footbridge to Old Hwy 395 and Old Hwy 395 to the Parker Confluence. The upper sub-reach (MGORD footbridge to Old Hwy 395) had streamflow losses of 6.5 cfs or 9.1% loss relative to MGORD on August 31 and 2.1 cfs or 4.0% on September 7. Daily average flows at the MGORD footbridge were 72.4 cfs and 50.3 cfs on August 31 and September 7. The flow loss percentage on August 31 was similar to the flow losses observed in RY2009 and 2010 during summer months. The flow loss percent of 4.0% was lower than the previously observed values. Only one flow loss value was calculated for the lower subreach because no flow measurement was taken at the Old Hwy 395 Bridge on August 30. The flow at Parker Confluence was higher by 1.5 cfs than that at the Old Hwy 395 Bridge. This flow gain is most likely due to measurement error because flow gain through the lower sub-reach has never been observed in the past two runoff years, and 1.5 cfs flow difference between the two stations is within the 5% error of the measurement.

Table 2. Location of synoptic flow measurement sites and distance from the diversion point upstream.

	Distance from Mono Gate One or Conduit (mile)	Measurement Method			
MGORD Current Meter Bridge	1.4	Rating table 3			
Rush Creek at Old Highway 395 Bridge	3.4	Current Meter			
Rush Creek above Parker Creek	4.9	Current Meter			
Rush Creek below the Narrows	5.6	Sum of Flows			
Rush Creek below 10 Channel Falls	7.6	Current Meter			
Rush Creek at County Road	9.1	Current Meter			
Parker Creek below Conduit	0	Parshall Flume			
Parker Creek at Mouth	3.0	4ft Cip Weir			
Walker Creek below Conduit	0	Parshall Flume			
Walker Creek at Mouth	2.9	2ft Cip Weir			
Lee Vining Creek at Langemann Gate	0	Adjustable Weir			
Lee Vining Creek below County Road	3.6	Current Meter			

Lower Rush Creek. Lower Rush Creek from the Narrows to the County Road also had two sub-reaches in which flow losses were computed, with intermediate boundary defined by the lower Rush Creek gage located at XS-9+82 below the 10-Channel confluence. The flow measurement at County Road was not conducted on September 7. The flow loss for the upper sub-reach in the Rush Creek bottomlands (Narrows to 10 Channel Fall) was 5.9 cfs or 6% on August 30 and 6.7 cfs or 11% on September 7 with the calculated flow below the Narrows was 104.1 cfs and 62.2 cfs on those respective dates. The flow below the Narrows on August 30 was highest since the measurement started in RY2009 (104.1 cfs). The flow loss was 6%, lower than two other flow losses previously recorded during summer months (11% and 9%). This suggests that at higher flows (>104 cfs) flow losses may become less than 5%, not discernible from the error rate. For the lower sub-reach (10 Channel to County Road), the flow loss on August 30 was 3.4 cfs or 3%. This flow loss percent was similar to values observed during summer months in the past.

Parker and Walker Creeks. LADWP installed Cipolletti weirs at the mouth of Parker and Walker creeks in October 2009 to more accurately estimate streamflow. These flow estimates were compared to flow release estimates below the Conduit on each tributary, to determine flow losses along the two tributary corridors. However, the weirs were washed away during the peak flow period in RY2011, and re-installed in the same locations on September 14. The flow loss for Parker Creek on September 14 was 2.58 cfs or 24% of the flow below the Conduit of 10.8 cfs. The flow loss was higher than two observations during summer months at similar flows in past (19% and 11%). No flow

loss was observed for Walker Creek on September 14, 0.02 cfs or 0.3%. Two past measurements during summer months showed much higher flow loss rates of 29% and 66%. The small flow loss on September 14 could be attributable to an increased contribution of Bohler Creek.

Lee Vining Creek. LADWP hydrographers began collecting synoptic flow measurements on Lee Vining Creek at the County Road in RY2010. These measurements were compared to the 'Lee Vining Creek at Conduit' gaged flow estimates to compute flow gains/losses in Lee Vining Creek. Only one synoptic measurement was conducted in RY2011. Lee Vining Creek had a flow loss of 6.6 cfs or 6.1% with 30 cfs released through the Langemann Gate on September 19. There have been two measurements in the past with flows similar to the observed flow of 30 cfs. Both measurements showed much greater flow loss rates (18% and 21%) even though these measurements were taken either before or after the growing season.

Table 3. Summary of synoptic streamflow measurements during RY2011 (expressed in cfs), with computations of streamflow gains and losses for sub-reaches of Rush, Lee Vining, Parker, and Walker creeks.

				RY 201	1	
Stream Mi	les	Aug 30	Aug 31	Sep 7	Sep 14	Sep 19
MGORD Current Meter Bridge	1.4	73.4	72.4	50.3		
Rush Creek at Old Highway 395 Bridge	3.4		65.9	48.3		
Rush Creek above Parker Creek	4.9	70.1		49.7		
Rush Creek below the Narrows	5.6	104.2		62.2		
Rush Creek below 10 Channel Falls	7.6	98.3		55.5		
Rush Creek at County Road	9.1	94.9				
Parker Creek below Conduit	0	23.9		6.8	10.8	
Parker Creek above Rush	3.0				8.2	
Walker Creek below Conduit	0	10.2		5.7	6.7	
Walker Creek above Rush	2.9				6.7	
Lee Vining Creek at Langemann Gate	0					30.0
Lee Vining Creek below County Road	3.6					23.4
Flow Gain/Loss between MGORD and Hwy 395			-6.5	-2.1		
Rate of Flow Gain/Loss (cfs/mile)			-1.9	-0.6		
Percent Gain/Loss			-9.0%	-4.1%		
Flow Gain/Loss between MGORD and Parker		-3.3		-0.6		
Rate of Flow Gain/Loss (cfs/mile)		-0.7		-0.1		
Percent Gain/Loss		-4.5%		-1.2%		
Flow Gain/Loss between MGORD and Narrows		30.8		11.9		
Rate of Flow Gain/Loss (cfs/mile)		5.5		2.1		
Percent Gain/Loss		31.3%		21.3%		
Flow Gain/Loss between Narrows and 10 Falls		-5.9		-6.7		
Rate of Flow Gain/Loss (cfs/mile)		-2.9		-3.3		
Percent Gain/Loss		-5.7%		-10.7%		
Flow Gain/Loss between 10 Falls and Country Road		-3.4				
Rate of Flow Gain/Loss (cfs/mile)		-2.3				
Percent Gain/Loss		-3.5%				
Flow Gain/Loss between Narrows and County Road		-9.3				
Rate of Flow Gain/Loss (cfs/mile)		-2.7				
Percent Gain/Loss		-8.9%				
Flow Gain/Loss between Parker at Conduit and Rush (	Creek				-2.6	
Rate of Flow Gain/Loss (cfs/mile)					-0.9	
Percent Gain/Loss					-8.0%	
Flow Gain/Loss between Walker at Conduit and Rush	Creek				0.0	
Rate of Flow Gain/Loss (cfs/mile)					0.0	
Percent Gain/Loss					-0.1%	
Flow Gain/Loss between Lee Vining Conduit and Cou	nty Road					-6.6
Rate of Flow Gain/Loss (cfs/mile)	-					-1.8
Percent Gain/Loss						-6.1%

## 2.3.2 Lee Vining Conduit Flow Loss

The Lee Vining Conduit flow loss study was conducted in RY2011. Based on readings of the installed flow measuring instruments, flows in the Conduit were higher at Grant Lake Reservoir than below the Intake. However, flow verification at two locations showed that the Venturi meter at Grant Lake Reservoir was constantly reading higher than the current meter. As a result, there should have been no flow gain through the Conduit. It would be difficult to detect flow gain or loss through the Conduit because flow differences would be small due to the concrete lining of the Conduit. In addition, the difference in flow measurements at the two locations also could have arisen due to natural variability of Lee Vining Creek flow and the level of Grant Lake Reservoir. The summary of Conduit flows is presented in Figure 13.

Currently flows in the Lee Vining Conduit are being measured at two different locations; below the Intake and at Grant Lake Reservoir. Below the Intake, three different methods have been used; a rating curve based on stilling well measuring stage readings, SonTeck S/W flow meter readings, and a calculation subtracting the Lee Vining Langemann Gate flow from the Lee Vining Creek above Intake Flume flow. Above Grant Lake, a Venturi meter that has two flow range tables (1-100 cfs for low flow conditions and 1-400 cfs for high flow conditions) was used to measure flows.

Current meters were used to verify three existing methods below the Intake and one exiting method at Grant Lake Reservoir. Because of high irregularity of the bottom geometry of Conduit and no access, flow was not current metered at the site where the stilling well and SonTek S/W were installed. Instead, a series of flow measurements were performed at Lee Vining Creek above Intake flume and below the Langemann Gate with a Sontek Flowtracker and River Surveyor. Results were in close agreement with the readings of the above Intake flume and Langemann Gate. Thus, the calculated values yield the most reliable flow data of the Lee Vining Conduit. The calculated values also agreed with the rating curve based on the still well and flow readings of SonTek S/W.

Flow verification of the Lee Vining Conduit flow at Grant Lake showed current meter readings were consistently lower than Venturi meter readings. Therefore, flow gains observed were due to the overestimation of the Lee Vining Conduit flow at Grant Lake Reservoir. Instrument technicians will periodically recalibrate the Venturi meter at Lee Vining Conduit at Grant Lake.

The travel time between the Lee Vining Intake and Grant Lake reduces the accuracy of flow loss calculations through the Lee Vining Conduit. Even though the operation of the Langemann Gate was switched from the flow control of Lee Vining Creek below Intake to the level control of the forebay, flow into the Conduit still experiences small natural flow variation of Lee Vining Creek above Intake. Because of this natural flow variability, a timing of flow measurement above Grant Lake must be timed to the travel time through Conduit. This, in turn, requires knowledge of exact traveling time at varying flow rates.

Existing facility, allows a specified flow to pass down Lee Vining Creek and excess to go to the conduit. Manually doing diversion operation as done this past year is labor intensive and not very accurate. Diversion was adjusted only once a day in the morning

even though inflows change continuously throughout the day. A second Langemann gate or similar equipment will need to be installed at the entrance of the Lee Vining conduit to follow the diversion table continuously and more precisely.

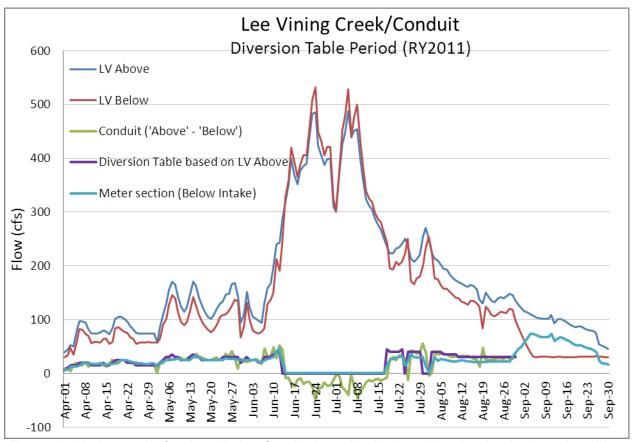


Figure 13.Hydrographs for Lee Vining Creek above Intake (5008) and at Intake (5009) and Lee Vining Conduit.

#### 2.3.3 5-Siphons Bypass Flow Loss

The flow loss study through the 5-Siphons Bypass was not conducted in RY2011 because there was not enough water in Lee Vining Conduit to conduct the study except in the beginning of September.

## 2.3.4 Grant Lake Spillway Flow Loss

The flow loss between the Grant Lake Spillway and Rush Creek was not conducted because flow conditions were judged unsafe for wading.

## 2.4 GROUNDWATER MONITORING

Groundwater monitoring continued in RY2011. Data were collected by LADWP at seven piezometers surrounding the Lower Rush Creek 8-Channel, and by the Mono Lake Committee at six piezometers in lower Rush Creek and at ten piezometers in upper Lee Vining Creek. Data from the 8-Floodplain piezometers during RY2011 are presented in this report.

Seven piezometers (8C-2 through 8C-8) are all located in the west side of the Rush Creek main channel. Peak groundwater elevation was recorded by all piezometers between July 6 and 9, during which the peak flow of Rush Creek below the Narrows was observed (565 cfs on July 7). Groundwater elevations closely follow Rush Creek flow throughout RY2011 (Figure 14 through 20, raw daily readings are presented in Appendix B in the tabular format). Changes of groundwater elevations were more pronounced for the piezometers which were located further away from the channel (8C-3, 8C-6 though 8C-8) than those located closer to the channel (8C-2, 8C-5, and 8C-5).

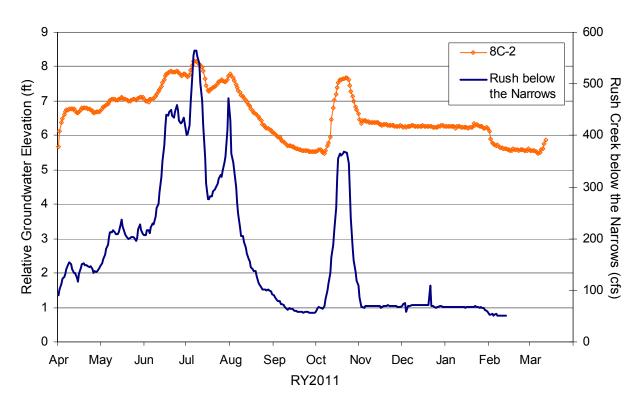


Figure 14.Relative groundwater elevation at Piezometer 8C-2 and daily average flow at Rush Creek below the Narrows during RY2011.

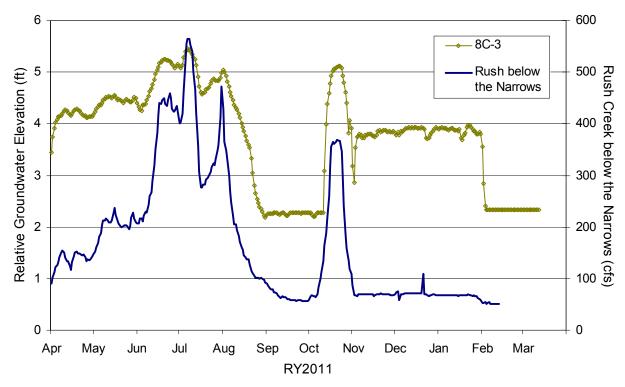


Figure 15.Relative groundwater elevation at Piezometer 8C-3 and daily average flow at Rush Creek below the Narrows during RY2011.

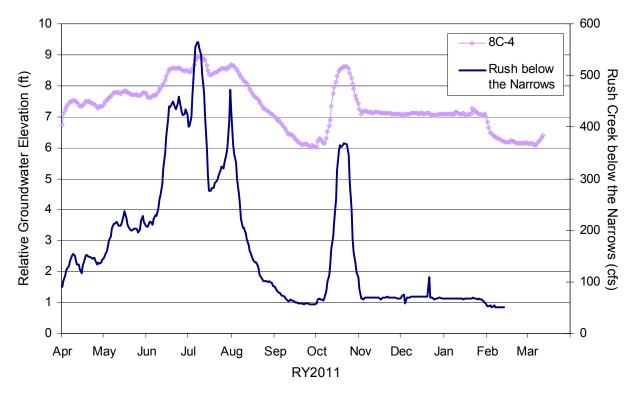


Figure 16.Relative groundwater elevation at Piezometer 8C-4 and daily average flow at Rush Creek below the Narrows during RY2011.

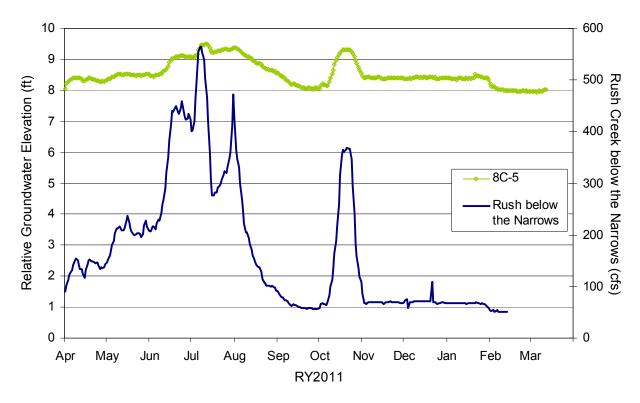


Figure 17.Relative groundwater elevation at Piezometer 8C-5 and daily average flow at Rush Creek below the Narrows during RY2011.

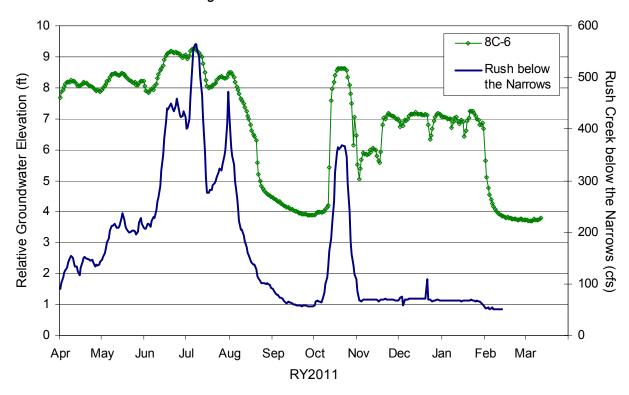


Figure 18.Relative groundwater elevation at Piezometer 8C-6 and daily average flow at Rush Creek below the Narrows during RY2011.

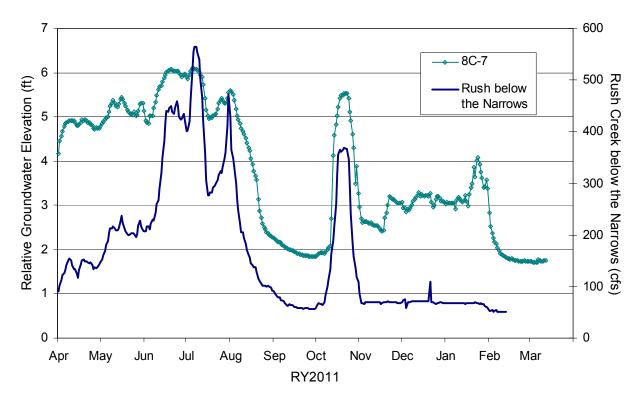


Figure 19.Relative groundwater elevation at Piezometer 8C-7 and daily average flow at Rush Creek below the Narrows during RY2011.

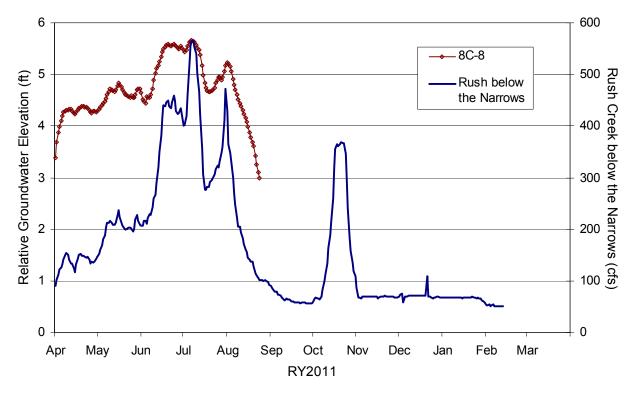


Figure 20.Relative groundwater elevation at Piezometer 8C-8 and daily average flow at Rush Creek below the Narrows during RY2011.

The rapid response of groundwater elevations were best observed during the pulse of 350 cfs MGORD release in October. The MGORD release was augmented to 350 cfs from 53 cfs with the average ramping rate of 20% between October 7 and October 17. By the beginning of the sustained 350 cfs release in October 17, groundwater elevations of all piezometers reached within 0.3 ft of the elevation recorded during the second snowmelt peak of July 31 (472 cfs at Rush Creek below the Narrows) (Table 4). By the end of the sustained 350cfs release, groundwater elevations of two (8C-3 and 8C-6) of five piezometers surpassed that recorded during the second snowmelt peak. The MGORD release was reduced to 60 cfs in November 2 after the 20% ramping down from 350 cfs in 10 days. The groundwater elevations after the 350 cfs peak remained elevated until the MGORD release was reduced to 45 cfs in February 1.

Table 4. Groundwater elevations of the 8-Floodplain piezometers during the October's 350 cfs MGORD release.

	Rush Below		Relati	ve Groundw	ater Elevati	on (ft)	
Date	the Narrows (cfs)	8C-2	8C-3	8C-4	8C-5	8C-6	8C-7
7/21/11	472	7.74	4.99	8.66	9.37	8.44	5.56
10/17/11	355	7.53	4.93	8.46	9.28	8.55	5.23
10/18/11	365	7.60	5.03	8.54	9.30	8.61	5.43
10/19/11	361	7.62	5.06	8.57	9.30	8.62	5.48
10/20/11	366	7.64	5.08	8.59	9.31	8.63	5.49
10/21/11	369	7.66	5.10	8.61	9.31	8.63	5.52
10/22/11	367	7.66	5.11	8.61	9.31	8.64	5.54
10/23/11	366	7.67	5.12	8.62	9.30	8.63	5.53
10/24/11	347	7.61	5.09	8.56	9.26	8.55	5.43

#### 2.5 TRIBUTARY WATER TEMPERATURE MONITORING

Water temperature monitoring continued in RY2011 at sixteen sites in Rush, Lee Vining, Parker, and Walker creeks (Table 5). Water temperature data for RY 2011 are in Appendix C. At four of fifteen sites (Parker above Confluence, Walker below Conduit, Lee Vining at County Road, and Lee Vining Conduit), a temperature logger was found missing when LADWP staff went to download data on November 29. At Lee Vining Creek at County Road, a new temperature logger was installed on December 16. Given the wet runoff conditions in RY2011 and Grant Lake Reservoir being at the spill elevation for 135 days since April 1, water temperature conditions were good in Rush Creek during the summer. The highest annual maximum temperature among four tributaries was found at Walker Creek above Conduit (62.8°F) (Table 6).

Between July 1 and September 30 in RY2011, a longitudinal water temperature profile along Rush Creek shows a very complex pattern due to the extended period of Grant Lake Reservoir spill and Parker/Walker flow augmentation (Figure 21). Water temperature below MGORD (Upper Rush to County Road) rose as much as 5.7°F due to the spill. The highest water temperature alternated between County Road, Rush above Parker, and MGORD stations. The typical warming trend along Rush Creek was not observed until September.

During winter months (November 1 and February 29), a cooling trend along Rush Creek was generally observed (Figure 22). However, the cooling trend was interrupted by periodic warm-up events.

Table 5. Location of water temperature monitoring sites.

	UT	M	
Site	Northing	Easting	Status
Rush Creek at Damsite	4186089	314256	
Rush Creek at MGORD TOP	4192452	316024	
Rush Creek at MGORD BOTTOM	4193278	314922	
Rush Creek at 5-Siphons Confluence	4193285	314798	
Rush Creek at Old Hwy 395	4195347	316030	
Rush Creek above Parker Confluence	4197232	316878	
Rush Creek below the Narrows	4198166	317285	
Rush Creek below 10 Channel Fall	4200480	318323	
Rush Creek at County Road	4201796	319259	
Parker Creek below Conduit	4193986	313684	
Parker Creek above Confluence	4197264	316872	Missing
Walker Creek below Conduit	4196095	313478	Missing
Walker Creek above Confluence	4198043	317206	_
Lee Vining below Intake	4200708	312561	
Lee Vining at County Road	4204791	314735	Missing
Lee Vining Conduit	4192857	314411	Missing

Table 6. Summary of water temperature data during RY2011. n indicates a number of days during RY2011 daily statistics have been obtained. All daily statistics (Daily Mean, Daily Max, Daily Min, and Max Daily Flux) are in °F.

			Aı	nnual		;	Summer			Winter	
Location	n	Daily Mean	Daily Max	Daily Min	Max Daily Flux	Daily Mean	Daily Max	Daily Min	Daily Mean	Daily Max	Daily Min
Rush Creek at Damsite	348	45.2	61.2	32.8	2.5	56.7	61.2	52.3	37.0	46.5	32.8
Rush Creek at MGORD TOP	348	47.6	61.4	36.0	9.0	57.3	61.4	51.8	40.0	52.8	36.0
Rush Creek at MGORD BOTTOM	348	47.6	61.3	35.9	10.6	57.5	61.3	52.3	39.7	52.2	35.9
Rush Creek at Old Hwy 395	348	48.1	61.1	35.6	10.2	58.7	61.1	54.6	39.2	51.0	35.6
Rush Creek above Parker Confluence	348	48.0	61.1	34.9	13.3	58.6	61.1	54.8	38.8	50.3	34.9
Rush Creek below the Narrows	343	47.6	60.4	34.3	13.2	58.0	60.4	54.9	38.0	48.7	34.3
Rush Creek below 10 Channel Fall	343	47.3	60.8	33.5	15.0	57.6	60.8	53.5	37.7	48.3	33.5
Rush Creek at County Road	343	47.6	61.4	33.0	16.0	58.3	61.4	55.5	37.5	48.0	33.0
Parker Creek below Conduit	348	42.3	55.4	32.1	12.5	51.1	55.4	47.2	33.9	41.2	32.1
Parker Creek above Confluence	na	na	na	na	na	na	na	na	na	na	na
Walker Creek below Conduit	na	na	na	na	na	na	na	na	na	na	na
Walker Creek above Confluence	348	45.3	62.8	32.1	19.8	58.7	62.8	52.8	33.7	41.9	32.1
Lee Vining below Intake	309	41.3	53.7	32.0	13.5	49.7	53.7	43.7	35.2	42.6	32.0
Lee Vining at County Road	83	34.3	38.7	32.0	10.4	na	na	na	34.2	37.9	32.0
Lee Vining Conduit	na	na	na	na	na	na	na	na	na	na	na

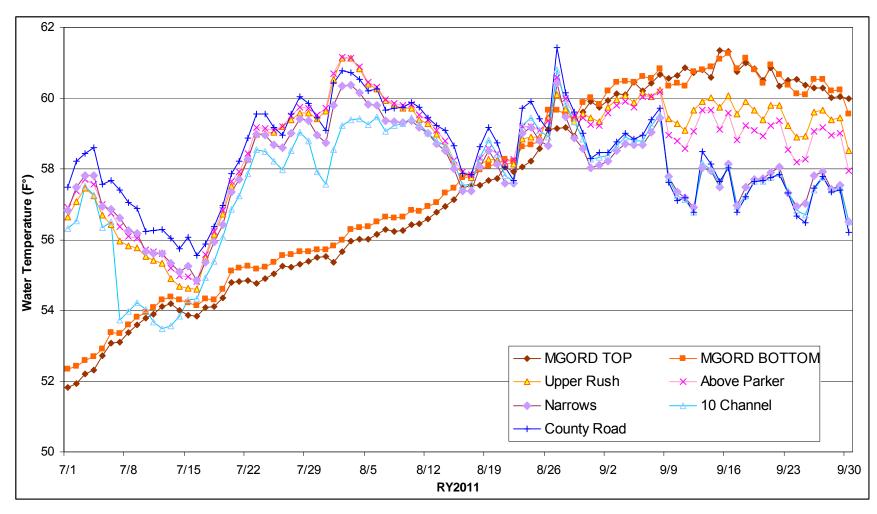


Figure 21. Water temperature data for Rush Creek between July 1 and September 30.

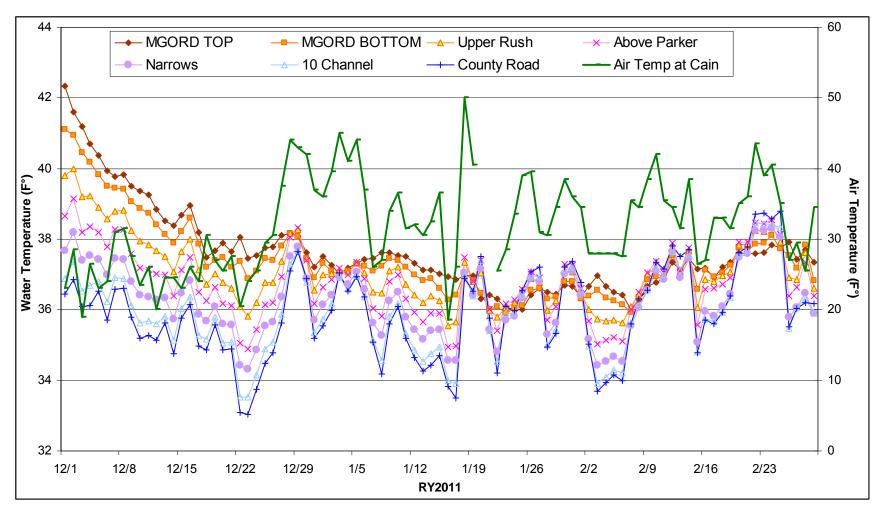


Figure 22. Water temperature data for Rush Creek between December 1 and February 29.

#### 2.6 GRANT LAKE RESERVOIR WATER TEMPERATURE MONITORING

Grant Lake Reservoir temperature and dissolved oxygen (DO) profiles were monitored monthly from April to December. Grant Lake Reservoir water surface elevation remained above the spill level through the summer until August 16, and dropped down to 7,120 ft in March. The lake elevation was well above the minimum storage level (11,500 AF) of 7,090 ft throughout RY2011.

In general, Grant Lake Reservoir water from April and December of RY2011 was well-mixed (Figure 23). In July and August, water temperature at the surface was 12°F higher than that of the bottom, but no stratification of the lake or thermocline was observed. From July to August the entire temperature profile shifted approximately 2°F, suggesting the whole lake was warming up. In September, the profile became uniform again. The highest water temperature at the bottom of the lake occurred in September (58.2°F on September 15). MGORD water temperature monitoring showed the daily maximum water temperature of 61.4°F on September 15.

The dissolved oxygen level was highest in April at 9 mg/L and declined to the lowest level of approximately 4.5 mg/L in November and December (Figure 24). The profile of dissolved oxygen was fairly uniform except July, August, and September. At the bottom of the lake, the dissolved oxygen level was below 5 mg/L for these three months. The lowest dissolved oxygen level was found in August at 4 mg/L.

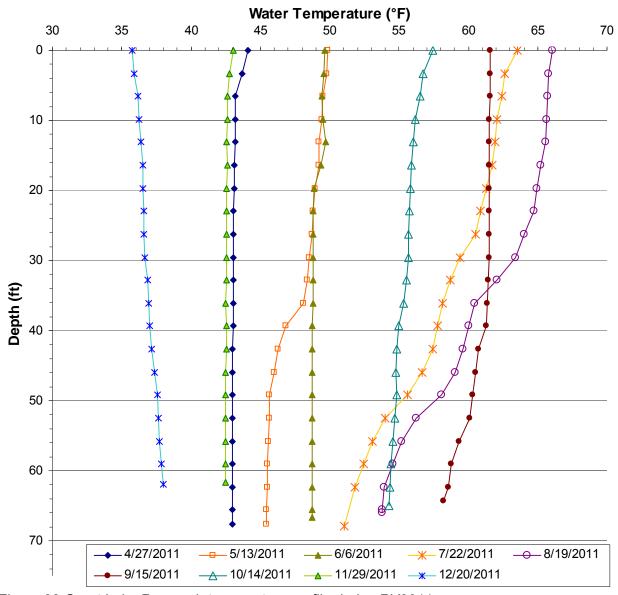


Figure 23. Grant Lake Reservoir temperature profile during RY2011.

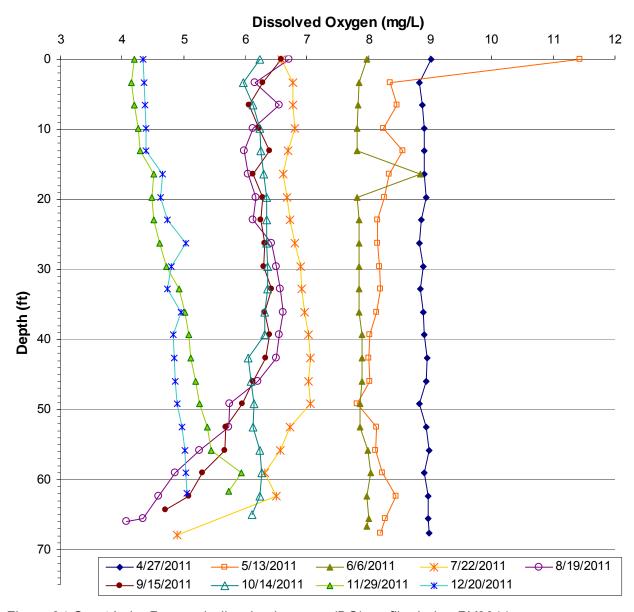


Figure 24. Grant Lake Reservoir dissolved oxygen (DO) profile during RY2011.

#### 3. GEOMORPHOLOGY

#### 3.1 SIDE CHANNEL MAINTENANCE

On September 29, the mouth of 8 Channel, the adjacent thalweg in Rush Creek, and the riffle crest thalweg were surveyed by LADWP staff and Steve Parmenter from the California Department of Fish and Game with Mono Lake Committee representatives present. The lowest-lying points were at the entrance when surveying the mouth of the side channel. There was uncertainty about what streambed feature constituted the crest because Rush Creek was a continuous riffle for more than 300 ft downstream of the side channel entrance. After considerable observation and discussion, the thalweg approximately 50' downstream of the side channel and on the left side of the stream was surveyed at multiple points. This point was chosen to represent the riffle crest thalweg (RCT) because of a slight increase in downstream gradient denoted by an increase in white water. Yellow flagging was placed along the left bank noting the location. Finally, the thalweg at multiple locations adjacent to the boulder weir was surveyed.

Results are presented in Table 7. The lowest point of the side channel opening among multiple surveyed points was 99.33 ft. The highest RCT elevation was 97.19 ft. The difference between the lowest side channel opening and the highest RCT elevation was 2.14 ft. The difference, therefore, was greater than the termination criterion for the 8 Channel mouth maintenance proposed by the Stream Scientists.

Table 7. Summary of the riffle crest thalweg survey at the mouth of 8 Channel in September 29, 2011.

Station	Elevation (ft)	Station Description	
SC1	99.33	SC furthest US	
SC2	99.53	SC middle	
SC3	99.46	SC downstream	
SC4	99.37	SC furthest DS	
RCT1	96.54	RCT closest to LB	
RCT2	96.54	RCT middle	
RCT3	96.86	RCT right	
RCT4	97.19	RCT furthest right	

#### 3.2 Parker and Walker Creeks Bypass Operation

The sluice pipe was opened in Parker and Walker creeks in April 20 in order to move coarse sediments which were deposited in the delta section. Coarse sediments were manually pushed downstream toward the opening of the sluice pipe by LADWP staff. The sluice pipe was closed in both creeks on April 21. The pipe was again opened on

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June 13 prior to the snowmelt peak. The sluice pipe in Walker Creek was closed on July 19, and the sluice pipe in Parker Creek was closed on July 20.

#### 4. SUMMARY

Runoff Year (RY) 2011 was classified as Wet Runoff Year Type. Lee Vining and Parker creeks, respectively, recorded the largest and second largest snowmelt peak since 1991. The snowmely peak at Rush Creek below the Narrows was also fourth largest since 1991. This above average runoff resulted in cooler water temperatures and higher groundwater elevations through out the summer months. The prolonged Grant Lake Reservoir (GLR) spill, the October's Rush Creek pulse, and elevated winter baseflow in Rush Creek, however, lead to unique observations in Rush Creek longitudinal water temperature profile, groundwater elevations at the 8 Channel Section, and winter ice formations in Rush Creek.

The prolonged Grant Lake Reservoir (GLR) spill, however, resulted in complex longitudinal water temperature profiles. Water temperatures below MGORD were much higher than those observed in MGORD due to warmer water at the surface of GRL being added to Rush Creek below MGORD. Addition of the warmer surface water to Rush Creek could offset a benefit of the cooler water at the bottom of GLR being released through Mono Gate One.

The pulse in October showed that groundwater elevations of the 8-Floodplain piezometers responded almost instantaneously to the high flows of Rush Creek below the Narrows. Subsequently groundwater elevations quickly reached similar elevations recorded during the second snowmelt peak of July 31 (472 cfs at Rush Creek below the Narrows). The pulse supports that "priming the system" or flow augmentation prior to the peak may not be necessary to achieve desirable groundwater elevations during peak flow.

Higher winter baseflow was observed in Rush Creek than the SEF winter baseflow during the winter of 2011-12. The ice monitoring section in Rush Creek remained ice-free throughout the monitoring period. The longitudinal water temperature profile during winter months also provides insights into anchor ice formations in Rush Creek. The warmer water released by GLR had prevented water temperatures in Rush Creek from approaching 32°F. After GRL cooled down, Rush Creek experienced periodic warming due to the fact the winter of 2011-12 was one of the warmest winters since 1991. These warming events also prevented water temperature from approaching 32°F. These two factors, GLR heat storage and air temperature influence, would have resulted less development of anchor ice in Rush Creek.

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# 5. APPENDIX A: DAILY AVERAGE FLOW

#### 5.1 DAILY AVERAGE FLOW AT RUSH CREEK AT DAMSITE (5013)

Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/2011	114	6/1/2011	158	8/1/2011	373	10/1/2011	110	12/1/2011	60.7	2/1/2012	18.5
4/2/2011	123	6/2/2011	156	8/2/2011	301	10/2/2011	110	12/2/2011	61.5	2/2/2012	17.9
4/3/2011	128	6/3/2011	154	8/3/2011	243	10/3/2011	110	12/3/2011	63.5	2/3/2012	17.9
4/4/2011	124	6/4/2011	154	8/4/2011	207	10/4/2011	111	12/4/2011	64	2/4/2012	17.5
4/5/2011	129	6/5/2011	174	8/5/2011	183	10/5/2011	123	12/5/2011	64.7	2/5/2012	17.3
4/6/2011	133	6/6/2011	176	8/6/2011	168	10/6/2011	116	12/6/2011	64.1	2/6/2012	17.2
4/7/2011	132	6/7/2011	176	8/7/2011	155	10/7/2011	116	12/7/2011	61.6	2/7/2012	17.3
4/8/2011	126	6/8/2011	191	8/8/2011	146	10/8/2011	114	12/8/2011	47.5	2/8/2012	17.3
4/9/2011	125	6/9/2011	202	8/9/2011	140	10/9/2011	114	12/9/2011	55.3	2/9/2012	17.3
4/10/2011	121	6/10/2011	201	8/10/2011	97.6	10/10/2011	114	12/10/2011	57.8	2/10/2012	16.9
4/11/2011	114	6/11/2011	205	8/11/2011	46.8	10/11/2011	115	12/11/2011	56.6	2/11/2012	16.7
4/12/2011	96.7	6/12/2011	210	8/12/2011	60.5	10/12/2011	114	12/12/2011	55.2	2/12/2012	17.1
4/13/2011	93.6	6/13/2011	240	8/13/2011	65.7	10/13/2011	114	12/13/2011	53.6	2/13/2012	17.1
4/14/2011	93.9	6/14/2011	295	8/14/2011	60.2	10/14/2011	113	12/14/2011	53	2/14/2012	
4/15/2011	117	6/15/2011	320	8/15/2011	81.4	10/15/2011	112	12/15/2011	56.5	2/15/2012	
4/16/2011	129	6/16/2011	340	8/16/2011	108	10/16/2011	112	12/16/2011	57.6	2/16/2012	
4/17/2011	137	6/17/2011	330	8/17/2011	104	10/17/2011	112	12/17/2011	57.8	2/17/2012	
4/18/2011	135	6/18/2011	325	8/18/2011	98.5	10/18/2011	112	12/18/2011	57.8	2/18/2012	
4/19/2011	116	6/19/2011	325	8/19/2011	93.2	10/19/2011	112	12/19/2011	57.8	2/19/2012	
4/20/2011	112	6/20/2011	332	8/20/2011	91.1	10/20/2011	112	12/20/2011	57.8	2/20/2012	
4/21/2011	109	6/21/2011	306	8/21/2011	90	10/21/2011	111	12/21/2011	57.8	2/21/2012	
4/22/2011	105	6/22/2011	319	8/22/2011	87.6	10/22/2011	111	12/22/2011	57.6	2/22/2012	
4/23/2011	103	6/23/2011	335	8/23/2011	64.5	10/23/2011	111	12/23/2011	57.4	2/23/2012	
4/24/2011	101	6/24/2011	336	8/24/2011	51.1	10/24/2011	110	12/24/2011	57.8	2/24/2012	
4/25/2011	99.3	6/25/2011	325	8/25/2011	61.4	10/25/2011	109	12/25/2011	57.8	2/25/2012	
4/26/2011	101	6/26/2011	312	8/26/2011	72.4	10/26/2011	109	12/26/2011	57.8	2/26/2012	
4/27/2011	123	6/27/2011	302	8/27/2011	78.3	10/27/2011	109	12/27/2011	57.8	2/27/2012	
4/28/2011	130	6/28/2011	303	8/28/2011	83.6	10/28/2011	109	12/28/2011	57.8	2/28/2012	
4/29/2011	129	6/29/2011	326	8/29/2011	89.6	10/29/2011	109	12/29/2011	57.9	2/29/2012	
4/30/2011	129	6/30/2011	320	8/30/2011	89	10/30/2011	109	12/30/2011	57.8		
# /4 /B O 4 4	400	= 4.45.44		8/31/2011	81.8	10/31/2011	109	12/31/2011	57.9	3/1/2012	
5/1/2011	128	7/1/2011	297	0/4/0044			***	. /. /		3/2/2012	
5/2/2011	127	7/2/2011	300	9/1/2011	72.5	11/1/2011	108	1/1/2012	57.8	3/3/2012	
5/3/2011	128	7/3/2011	321	9/2/2011	65.4	11/2/2011	108	1/2/2012	57.9	3/4/2012	
5/4/2011	133	7/4/2011	340	9/3/2011	60	11/3/2011	110	1/3/2012	57.8	3/5/2012	
5/5/2011	140	7/5/2011	365	9/4/2011	55.9	11/4/2011	110	1/4/2012	57.8	3/6/2012	
5/6/2011	164	7/6/2011	242	9/5/2011	52.5	11/5/2011	111	1/5/2012	57.8	3/7/2012	
5/7/2011	174	7/7/2011	374	9/6/2011	51.1	11/6/2011	111	1/6/2012	57.8	3/8/2012	
5/8/2011	178	7/8/2011	389	9/7/2011 9/8/2011	49.8	11/7/2011 11/8/2011	111	1/7/2012	57.8	3/9/2012 3/10/2012	
5/9/2011	173	7/9/2011	395	9/9/2011	49.1	11/9/2011	107	1/8/2012	57.1 57		
5/10/2011 5/11/2011	166 159	7/10/2011 7/11/2011	382 368	9/9/2011	48.9	11/9/2011	77.8 68.4	1/9/2012 1/10/2012		3/11/2012 3/12/2012	
5/12/2011	158	7/11/2011	329	9/10/2011	54.1 50.1	11/10/2011	68	1/11/2012	56.1 53.7	3/12/2012	
5/13/2011	165	7/13/2011	188	9/11/2011	46.8	11/11/2011	67.2	1/11/2012	51.2	3/13/2012	
5/14/2011	177	7/14/2011	199	9/12/2011	38.8	11/12/2011	68.7	1/13/2012	47.7	3/14/2012	
5/15/2011	178	7/15/2011	285	9/14/2011	42	11/14/2011	64.3	1/14/2012	34.7	3/16/2012	
5/16/2011	178	7/16/2011	318	9/15/2011	50	11/15/2011	43.2	1/15/2012	24.2	3/17/2012	
5/17/2011	164	7/17/2011	314	9/15/2011	61	11/15/2011	36.9	1/16/2012	19.4	3/18/2012	
5/18/2011	160	7/18/2011	294	9/17/2011	66	11/17/2011	35.6	1/17/2012	17.4	3/19/2012	
5/19/2011	155	7/19/2011	276	9/18/2011	61	11/18/2011	36.8	1/18/2012	16.7	3/20/2012	
5/20/2011	151	7/20/2011	264	9/19/2011	60	11/19/2011	33.9	1/19/2012	16.4	3/20/2012	
5/21/2011	152	7/20/2011	260	9/20/2011	55.5	11/20/2011	31.2	1/20/2012	16.3	3/22/2012	
5/22/2011	155	7/22/2011	261	9/20/2011	66.9	11/20/2011	31.7	1/20/2012	36.7	3/22/2012	
5/23/2011	158	7/23/2011	269	9/21/2011	69.8	11/21/2011	32.8	1/21/2012	28.4	3/23/2012	
5/24/2011	159	7/24/2011	288	9/23/2011	70	11/22/2011	35.9	1/23/2012	26.4	3/25/2012	
5/25/2011	161	7/24/2011	296	9/23/2011	69.8	11/23/2011	33.4	1/23/2012	23	3/25/2012	
5/26/2011	162	7/26/2011	273	9/25/2011	69	11/24/2011	30.7	1/25/2012	21.4	3/20/2012	
5/27/2011	169	7/27/2011	243	9/25/2011	69	11/25/2011	31.8	1/25/2012	20.4	3/28/2012	
5/28/2011	179	7/28/2011	243	9/26/2011	69 69	11/26/2011	33.3	1/26/2012	20.4	3/28/2012	
5/29/2011	179	7/29/2011	230	9/28/2011	67	11/2//2011	33.3 32.7	1/28/2012	19.2	3/30/2012	
5/30/2011	171	7/30/2011	249	9/29/2011	87.7	11/29/2011	33	1/29/2012	19.2	313012012	
5/31/2011	164	7/30/2011	361	9/30/2011	109	11/29/2011	51.5	1/29/2012	19.1		
			201	1130/4011	107	11/20/2011	ل. I <i>ل</i>	1/20/2012	17.1		

## 5.2 DAILY AVERAGE FLOW AT MGORD (5007)

Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
Dute	1 10W (C13)	Date	1 10W (C13)	Date	1 10W (C13)	Date	1 low (Cl3)	Dute	1 low (Cl3)	Date	1 low (C13)
4/1/2011	37.2	6/1/2011	83.7	8/1/2011	189	10/1/2011	44.1	12/1/2011	61.1	2/1/2012	45.4
4/2/2011	40.6	6/2/2011	83.7	8/2/2011	142	10/2/2011	50.6	12/2/2011	65.1	2/2/2012	42.2
4/3/2011	40.6	6/3/2011	83.5	8/3/2011	142	10/3/2011	54.4	12/3/2011	68.7	2/3/2012	43.3
4/4/2011	41.8	6/4/2011	83.9	8/4/2011	142	10/4/2011	51.3	12/4/2011	51.4	2/4/2012	43.5
4/5/2011	44	6/5/2011	85.2	8/5/2011	136	10/5/2011	47.8	12/5/2011	61.2	2/5/2012	43.5
4/6/2011	43.9	6/6/2011	85.3	8/6/2011	129	10/6/2011	47.9	12/6/2011	62.4	2/6/2012	43.5
4/7/2011 4/8/2011	44 44	6/7/2011 6/8/2011	82.3 78.4	8/7/2011 8/8/2011	129 121	10/7/2011 10/8/2011	53.6 66.8	12/7/2011 12/8/2011	61.7 61.2	2/7/2012 2/8/2012	43.5 43.5
4/8/2011	44	6/9/2011	78.4 78.4	8/9/2011	113	10/8/2011	84.7	12/9/2011	62	2/9/2012	43.5
4/10/2011	44	6/10/2011	78.4	8/10/2011	114	10/10/2011	98.5	12/10/2011	62	2/10/2012	43.5
4/11/2011	44	6/11/2011	78.4	8/11/2011	111	10/11/2011	117	12/11/2011	62	2/11/2012	43.5
4/12/2011	43.9	6/12/2011	84.6	8/12/2011	108	10/12/2011	148	12/12/2011	62	2/12/2012	43.5
4/13/2011	43.8	6/13/2011	94.6	8/13/2011	108	10/13/2011	171	12/13/2011	62	2/13/2012	43.5
4/14/2011	43.6	6/14/2011	103	8/14/2011	108	10/14/2011	200	12/14/2011	62.1	2/14/2012	
4/15/2011	43.5	6/15/2011	112	8/15/2011	105	10/15/2011	243	12/15/2011	62.5	2/15/2012	
4/16/2011	43.2	6/16/2011	122	8/16/2011	103	10/16/2011	299	12/16/2011	62.5	2/16/2012	
4/17/2011	43.2	6/17/2011	137	8/17/2011	103	10/17/2011	339	12/17/2011	62.5	2/17/2012	
4/18/2011	43.4	6/18/2011	152	8/18/2011	102	10/18/2011	349	12/18/2011	62.5	2/18/2012	
4/19/2011	43.2	6/19/2011	169	8/19/2011	102	10/19/2011	346	12/19/2011	62.5	2/19/2012	
4/20/2011	43.3	6/20/2011	182	8/20/2011	91.1	10/20/2011	351	12/20/2011	62.5	2/20/2012	
4/21/2011	43.6	6/21/2011	182	8/21/2011	79.6	10/21/2011	355	12/21/2011	102	2/21/2012	
4/22/2011	43.5	6/22/2011	182	8/22/2011	79.2	10/22/2011	353	12/22/2011	61.2	2/22/2012	
4/23/2011	44	6/23/2011	181	8/23/2011	73.1	10/23/2011	353	12/23/2011	61.2	2/23/2012	
4/24/2011 4/25/2011	43.6 43.6	6/24/2011 6/25/2011	181 182	8/24/2011 8/25/2011	68.5 68.5	10/24/2011 10/25/2011	334 284	12/24/2011 12/25/2011	61.2 61.2	2/24/2012 2/25/2012	
4/26/2011	43.2	6/26/2011	182	8/26/2011	68.4	10/25/2011	229	12/25/2011	61.2	2/25/2012	
4/27/2011	43.1	6/27/2011	182	8/27/2011	66	10/27/2011	171	12/27/2011	61.2	2/27/2012	
4/28/2011	43.2	6/28/2011	181	8/28/2011	63.3	10/28/2011	146	12/28/2011	61.2	2/28/2012	
4/29/2011	43.3	6/29/2011	182	8/29/2011	63.4	10/29/2011	124	12/29/2011	61.2	2/29/2012	
4/30/2011	42.9	6/30/2011	182	8/30/2011	63.3	10/30/2011	108	12/30/2011	61.1		
				8/31/2011	62.6	10/31/2011	98.5	12/31/2011	61	3/1/2012	
5/1/2011	47.8	7/1/2011	182							3/2/2012	
5/2/2011	56.6	7/2/2011	182	9/1/2011	62.2	11/1/2011	76.3	1/1/2012	60.4	3/3/2012	
5/3/2011	64.8	7/3/2011	197	9/2/2011	59.4	11/2/2011	57.4	1/2/2012	60.4	3/4/2012	
5/4/2011	75.2	7/4/2011	239	9/3/2011	55.2	11/3/2011	56.2	1/3/2012	60.4	3/5/2012	
5/5/2011	83	7/5/2011	286	9/4/2011	55	11/4/2011	55.9	1/4/2012	60.4	3/6/2012	
5/6/2011	82.6	7/6/2011	346	9/5/2011	54.8	11/5/2011	58.2	1/5/2012	60.5	3/7/2012	
5/7/2011	83.5	7/7/2011	374	9/6/2011	51.3	11/6/2011	58.8	1/6/2012	60.4	3/8/2012	
5/8/2011 5/9/2011	83.8 84.3	7/8/2011 7/9/2011	376 375	9/7/2011 9/8/2011	50.4 49.6	11/7/2011 11/8/2011	59 59	1/7/2012 1/8/2012	60.4 60.4	3/9/2012 3/10/2012	
5/10/2011	84.8	7/10/2011	375	9/9/2011	46.1	11/9/2011	58.9	1/9/2012	60.8	3/10/2012	
5/11/2011	84.6	7/11/2011	376	9/10/2011	40.8	11/10/2011	58.9	1/10/2012	61.2	3/12/2012	
5/12/2011	83.5	7/12/2011	377	9/11/2011	39.4	11/11/2011	58.8	1/11/2012	61.2	3/13/2012	
5/13/2011	83.5	7/13/2011	340	9/12/2011	39.3	11/12/2011	59.3	1/12/2012	60.9	3/14/2012	
5/14/2011	83.5	7/14/2011	281	9/13/2011	39.2	11/13/2011	59.6	1/13/2012	60.4	3/15/2012	
5/15/2011	83.5	7/15/2011	235	9/14/2011	39.3	11/14/2011	59.4	1/14/2012	60.4	3/16/2012	
5/16/2011	83.7	7/16/2011	205	9/15/2011	39.3	11/15/2011	58.8	1/15/2012	60.4	3/17/2012	
5/17/2011	85	7/17/2011	191	9/16/2011	39.2	11/16/2011	57.6	1/16/2012	60.4	3/18/2012	
5/18/2011	85.3	7/18/2011	186	9/17/2011	39.2	11/17/2011	56.9	1/17/2012	60.7	3/19/2012	
5/19/2011	85.3	7/19/2011	181	9/18/2011	39.2	11/18/2011	58.7	1/18/2012	61.2	3/20/2012	
5/20/2011	85.4	7/20/2011	177	9/19/2011	39.2	11/19/2011	61.2	1/19/2012	61.1	3/21/2012	
5/21/2011	85.3	7/21/2011	173	9/20/2011	39	11/20/2011	61.1	1/20/2012	61.2	3/22/2012	
5/22/2011	85.3	7/22/2011	168	9/21/2011	38.8	11/21/2011	61.2	1/21/2012	61.4	3/23/2012	
5/23/2011	85.3	7/23/2011	164	9/22/2011	38.5	11/22/2011	61.1	1/22/2012	61.2	3/24/2012	
5/24/2011	85 82.0	7/24/2011	161	9/23/2011	39.7	11/23/2011	60.4	1/23/2012	61.2	3/25/2012	
5/25/2011	83.9	7/25/2011	160	9/24/2011	41.3	11/24/2011	60.4	1/24/2012	61.2	3/26/2012	
5/26/2011	85 85 3	7/26/2011	160 160	9/25/2011	41.1	11/25/2011	60.4 60.4	1/25/2012	61.2 61.2	3/27/2012	
5/27/2011 5/28/2011	85.3 85.3	7/27/2011 7/28/2011	160 166	9/26/2011 9/27/2011	40.4 40.5	11/26/2011 11/27/2011	60.4 60.2	1/26/2012 1/27/2012	61.2	3/28/2012 3/29/2012	
314014011	85.3 85.3	7/28/2011	166 167	9/2//2011	40.5 40.7	11/2//2011	60.2	1/2//2012	61.2	3/30/2012	
5/29/2011	د.ده	112712011	107							3/30/2012	
5/29/2011 5/30/2011		7/30/2011	196	9/29/2011	40.2	11/29/2011	60	1/29/2012	54.4		
5/29/2011 5/30/2011 5/31/2011	85.3 85.2	7/30/2011 7/31/2011	196 238	9/29/2011 9/30/2011	40.2 40.1	11/29/2011 11/30/2011	60 60.2	1/29/2012 1/30/2012	54.4 54.4		

5.3 DAILY AVERAGE FLOW AT UPPER RUSH

			TLOW A		TI (A)	<b>.</b>	T1 (0)	- ·	T1 ( C)	ъ.	
Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/2011	76	6/1/2011	184	8/1/2011	360	10/1/2011	44	12/1/2011	61	2/1/2012	45
4/2/2011	84	6/2/2011	184	8/2/2011	300	10/2/2011	51	12/2/2011	65	2/2/2012	42
4/3/2011	96	6/3/2011	195	8/3/2011	287	10/3/2011	54	12/3/2011	69	2/3/2012	43
4/4/2011	105	6/4/2011	194	8/4/2011	275	10/4/2011	51	12/4/2011	51	2/4/2012	44
4/5/2011	107	6/5/2011	185	8/5/2011	246	10/5/2011	48	12/5/2011	61	2/5/2012	44
4/6/2011	116	6/6/2011	196	8/6/2011	220	10/6/2011	48	12/6/2011	62	2/6/2012	44
4/7/2011	131	6/7/2011	203	8/7/2011	201	10/7/2011	54	12/7/2011	62	2/7/2012	44
4/8/2011	140	6/8/2011	199	8/8/2011	176	10/8/2011	67	12/8/2011	61	2/8/2012	44
4/9/2011	144	6/9/2011	211	8/9/2011	160	10/9/2011	85	12/9/2011	62	2/9/2012	44
4/10/2011	140	6/10/2011	223	8/10/2011	161	10/10/2011	99	12/10/2011 12/11/2011	62	2/10/2012	44
4/11/2011 4/12/2011	131 125	6/11/2011 6/12/2011	223 243	8/11/2011 8/12/2011	151 141	10/11/2011 10/12/2011	117 148	12/11/2011	62 62	2/11/2012 2/12/2012	44 44
4/13/2011	125	6/13/2011	266	8/13/2011	135	10/12/2011	171	12/12/2011	62	2/12/2012	44
4/13/2011	116	6/14/2011	288	8/14/2011	124	10/13/2011	200	12/13/2011	62	2/13/2012	44
4/15/2011	107	6/15/2011	310	8/15/2011	112	10/15/2011	243	12/15/2011	63	2/15/2012	
4/16/2011	115	6/16/2011	333	8/16/2011	105	10/16/2011	299	12/16/2011	63	2/16/2012	
4/17/2011	124	6/17/2011	361	8/17/2011	103	10/17/2011	339	12/17/2011	63	2/17/2012	
4/18/2011	130	6/18/2011	363	8/18/2011	102	10/18/2011	349	12/18/2011	63	2/18/2012	
4/19/2011	130	6/19/2011	367	8/19/2011	102	10/19/2011	346	12/19/2011	63	2/19/2012	
4/20/2011	124	6/20/2011	366	8/20/2011	91	10/20/2011	351	12/20/2011	63	2/20/2012	
4/21/2011	125	6/21/2011	353	8/21/2011	80	10/21/2011	355	12/21/2011	102	2/21/2012	
4/22/2011	125	6/22/2011	340	8/22/2011	79	10/22/2011	353	12/22/2011	61	2/22/2012	
4/23/2011	121	6/23/2011	339	8/23/2011	73	10/23/2011	353	12/23/2011	61	2/23/2012	
4/24/2011	126	6/24/2011	352	8/24/2011	69	10/24/2011	334	12/24/2011	61	2/24/2012	
4/25/2011	121	6/25/2011	353	8/25/2011	69	10/25/2011	284	12/25/2011	61	2/25/2012	
4/26/2011	115	6/26/2011	340	8/26/2011	68	10/26/2011	229	12/26/2011	61	2/26/2012	
4/27/2011	120	6/27/2011	340	8/27/2011	66	10/27/2011	171	12/27/2011	61	2/27/2012	
4/28/2011	116	6/28/2011	339	8/28/2011	63	10/28/2011	146	12/28/2011	61	2/28/2012	
4/29/2011	120	6/29/2011	340	8/29/2011	63	10/29/2011	124	12/29/2011	61	2/29/2012	
4/30/2011	124	6/30/2011	340	8/30/2011	63	10/30/2011	108	12/30/2011	61		
5/1/2011	120	7/1/2011	227	8/31/2011	63	10/31/2011	99	12/31/2011	61	3/1/2012	
5/1/2011	129	7/1/2011	327	0/1/2011	(2)	11/1/2011	76	1/1/2012	<b>CO</b>	3/2/2012	
5/2/2011	134	7/2/2011 7/3/2011	327	9/1/2011 9/2/2011	62	11/1/2011	76	1/1/2012	60	3/3/2012	
5/3/2011 5/4/2011	142 151	7/4/2011	330 360	9/3/2011	59 55	11/2/2011 11/3/2011	57 56	1/2/2012 1/3/2012	60 60	3/4/2012 3/5/2012	
5/5/2011	159	7/5/2011	396	9/4/2011	55	11/4/2011	56	1/4/2012	60	3/6/2012	
5/6/2011	164	7/6/2011	437	9/5/2011	55	11/5/2011	58	1/5/2012	61	3/7/2012	
5/7/2011	174	7/7/2011	446	9/6/2011	51	11/6/2011	59	1/6/2012	60	3/8/2012	
5/8/2011	180	7/8/2011	439	9/7/2011	50	11/7/2011	59	1/7/2012	60	3/9/2012	
5/9/2011	180	7/9/2011	438	9/8/2011	50	11/8/2011	59	1/8/2012	60	3/10/2012	
5/10/2011	185	7/10/2011	438	9/9/2011	46	11/9/2011	59	1/9/2012	61	3/11/2012	
5/11/2011	185	7/11/2011	413	9/10/2011	41	11/10/2011	59	1/10/2012	61	3/12/2012	
5/12/2011	184	7/12/2011	384	9/11/2011	39	11/11/2011	59	1/11/2012	61	3/13/2012	
5/13/2011	184	7/13/2011	342	9/12/2011	39	11/12/2011	59	1/12/2012	61	3/14/2012	
5/14/2011	184	7/14/2011	281	9/13/2011	39	11/13/2011	60	1/13/2012	60	3/15/2012	
5/15/2011	195	7/15/2011	235	9/14/2011	39	11/14/2011	59	1/14/2012	60	3/16/2012	
5/16/2011	205	7/16/2011	207	9/15/2011	39	11/15/2011	59	1/15/2012	60	3/17/2012	
5/17/2011	195	7/17/2011	209	9/16/2011	39	11/16/2011	58	1/16/2012	60	3/18/2012	
5/18/2011	185	7/18/2011	219	9/17/2011	39	11/17/2011	57	1/17/2012	61	3/19/2012	
5/19/2011	181	7/19/2011	221	9/18/2011	39	11/18/2011	59	1/18/2012	61	3/20/2012	
5/20/2011	177	7/20/2011	232	9/19/2011	39	11/19/2011	61	1/19/2012	61	3/21/2012	
5/21/2011	177	7/21/2011	236	9/20/2011	39	11/20/2011	61	1/20/2012	61	3/22/2012	
5/22/2011	177	7/22/2011	240	9/21/2011	39	11/21/2011	61	1/21/2012	61	3/23/2012	
5/23/2011	177	7/23/2011	245	9/22/2011	39	11/22/2011	61	1/22/2012	61	3/24/2012	
5/24/2011	177	7/24/2011	252	9/23/2011	40	11/23/2011	60	1/23/2012	61	3/25/2012	
5/25/2011	176	7/25/2011	260	9/24/2011	41	11/24/2011	60	1/24/2012	61	3/26/2012	
5/26/2011	172	7/26/2011	260	9/25/2011	41	11/25/2011	60	1/25/2012	61	3/27/2012	
5/27/2011	176	7/27/2011	271	9/26/2011	40	11/26/2011	60	1/26/2012	61	3/28/2012	
5/28/2011	190	7/28/2011	287	9/27/2011	41	11/27/2011	60	1/27/2012	61	3/29/2012	
5/29/2011	195	7/29/2011	295	9/28/2011	41	11/28/2011	60	1/28/2012	61	3/30/2012	
5/30/2011	186	7/30/2011 7/31/2011	336	9/29/2011 9/30/2011	40	11/29/2011 11/30/2011	60	1/29/2012	54 54	3/31/2012	
5/31/2011	181	//31/2011	396	9/30/2011	40	11/30/2011	60	1/30/2012	54 52		
								1/31/2012	52		

5.4 DAILY AVERAGE FLOW AT PARKER CREEK BELOW CONDUIT (5017)

<u> </u>	, , ,		I LOW A		LIV OILL			011 (30			
Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/2011	7.87	6/1/2011	13.5	8/1/2011	47.3	10/1/2011	8.9	12/1/2011	4.39	2/1/2012	3.86
4/2/2011	10.4	6/2/2011	13.2	8/2/2011	42.1	10/2/2011	9.64	12/2/2011	4.52	2/2/2012	8
4/3/2011	9.66	6/3/2011	12.6	8/3/2011	38.2	10/3/2011	9.59	12/3/2011	3.76	2/3/2012	8
4/4/2011	10.5	6/4/2011	12	8/4/2011	35.3	10/4/2011	9.5	12/4/2011	4.65	2/4/2012	5.04
4/5/2011	12.1	6/5/2011	13.5	8/5/2011	33.1	10/5/2011	10.4	12/5/2011	4.62	2/5/2012	7.32
4/6/2011	9.81	6/6/2011	12.4	8/6/2011	31.4	10/6/2011	9.38	12/6/2011	4.64	2/6/2012	8.86
4/7/2011	7.68	6/7/2011	13.5	8/7/2011	29.9	10/7/2011	9.42	12/7/2011	5.19	2/7/2012	4.37
4/8/2011	7.4	6/8/2011	14.2	8/8/2011	28.8	10/8/2011	9.6	12/8/2011	5.58	2/8/2012	4.2
4/9/2011	7.36	6/9/2011	15.6	8/9/2011	28	10/9/2011	9.46	12/9/2011	5.34	2/9/2012	4.16
4/10/2011	6.86	6/10/2011	18.7	8/10/2011	27.4	10/10/2011	9.06	12/10/2011	5.16	2/10/2012	4.13
4/11/2011	6.82	6/11/2011	22	8/11/2011	27	10/11/2011	9.02	12/11/2011	5.13	2/11/2012	4.05
4/12/2011	6.7	6/12/2011	24.3	8/12/2011	26.5	10/12/2011	9.88	12/12/2011	4.95	2/12/2012	4.12
4/13/2011	6.32	6/13/2011	26.8	8/13/2011	25.9	10/13/2011	10.2	12/13/2011	4.99	2/13/2012	3.97
4/14/2011	6.05	6/14/2011	31.6	8/14/2011	25.6	10/14/2011	10	12/14/2011	4.9	2/14/2012	
4/15/2011	6.44	6/15/2011	36.5	8/15/2011	27.5	10/15/2011	9.65	12/15/2011	5.02	2/15/2012	
4/16/2011	10.6	6/16/2011	43.9	8/16/2011	26.2	10/16/2011	9.31	12/16/2011	4.94	2/16/2012	
4/17/2011	11.1	6/17/2011	41.8	8/17/2011	23.9	10/17/2011	9.01	12/17/2011	4.74	2/17/2012	
4/18/2011	11.8	6/18/2011	40.2	8/18/2011	22.3	10/18/2011	8.76	12/18/2011	4.6	2/18/2012	
4/19/2011	13.1	6/19/2011	43.8	8/19/2011	22.8	10/19/2011	8.33	12/19/2011	4.83	2/19/2012	
4/20/2011	14.7	6/20/2011	45.9	8/20/2011	24.1	10/20/2011	8.2	12/20/2011	4.63	2/20/2012	
4/21/2011	14.6	6/21/2011	46.6	8/21/2011	23	10/21/2011	7.84	12/21/2011	4.49	2/21/2012	
4/22/2011	14.4	6/22/2011	53.5	8/22/2011	21	10/22/2011	7.67	12/22/2011	5.05	2/22/2012	
4/23/2011	14.5	6/23/2011	60.1	8/23/2011	20.2	10/23/2011	7.51	12/23/2011	4.96	2/23/2012	
4/24/2011	13.1	6/24/2011	59	8/24/2011	21.7	10/24/2011	6.87	12/24/2011	4.31	2/24/2012	
4/25/2011	12.4	6/25/2011	53.7	8/25/2011	23.3	10/25/2011	6.72	12/25/2011	3.76	2/25/2012	
4/26/2011	11.8	6/26/2011	49.4	8/26/2011	23	10/26/2011	6.95	12/26/2011	3.74	2/26/2012	
4/27/2011	12	6/27/2011	47.1	8/27/2011	24.2	10/27/2011	6.87	12/27/2011	4.24	2/27/2012	
4/28/2011	12.2	6/28/2011	48.7	8/28/2011	27.9	10/28/2011	6.72	12/28/2011	4.4	2/28/2012	
4/29/2011	11.6	6/29/2011	52.7	8/29/2011	26.7	10/29/2011	6.57	12/29/2011	4.39	2/29/2012	
4/30/2011	12.2	6/30/2011	45	8/30/2011	23.6	10/30/2011	6.45	12/30/2011	4.28	2/1/2012	
5/1/2011	12.1	7/1/2011	40.5	8/31/2011	20.6	10/31/2011	6.2	12/31/2011	3.98	3/1/2012	
5/1/2011	12.1	7/1/2011	40.5	0/1/2011	10.7	11/1/2011	6.11	1/1/2012	421	3/2/2012	
5/2/2011 5/3/2011	12 11.9	7/2/2011 7/3/2011	44.1 54.3	9/1/2011 9/2/2011	18.7 17.4	11/1/2011 11/2/2011	6.11 6.31	1/1/2012 1/2/2012	4.21 4.23	3/3/2012 3/4/2012	
5/4/2011	12.1	7/4/2011	62.5	9/3/2011	16.7	11/3/2011	6.34	1/3/2012	4.23	3/5/2012	
5/5/2011	12.1	7/5/2011	80.4	9/4/2011	16.1	11/4/2011	6.31	1/4/2012	4.14	3/6/2012	
5/6/2011	14.5	7/6/2011	72.4	9/5/2011	15.5	11/5/2011	6.29	1/5/2012	4.19	3/7/2012	
5/7/2011	17.1	7/7/2011	72.4	9/6/2011	14.9	11/6/2011	6.27	1/6/2012	4.15	3/8/2012	
5/8/2011	18.2	7/8/2011	75.1	9/7/2011	14.4	11/7/2011	6.21	1/7/2012	4.12	3/9/2012	
5/9/2011	18.7	7/9/2011	66.8	9/8/2011	14.4	11/8/2011	6.07	1/8/2012	4.12	3/10/2012	
5/10/2011	18	7/10/2011	59	9/9/2011	14.8	11/9/2011	6.09	1/9/2012	4.12	3/11/2012	
5/11/2011	16.1	7/11/2011	51.4	9/10/2011	14.9	11/10/2011	6.04	1/10/2012	4.17	3/12/2012	
5/12/2011	14.8	7/12/2011	48.6	9/11/2011	15.3	11/11/2011	6.12	1/11/2012	4.23	3/13/2012	
5/13/2011	14.6	7/13/2011	48.2	9/12/2011	16.7	11/12/2011	6.1	1/12/2012	4.23	3/14/2012	
5/14/2011	16	7/14/2011	46.2	9/13/2011	16.4	11/13/2011	6.06	1/13/2012	4.23	3/15/2012	
5/15/2011	18	7/15/2011	43	9/14/2011	15.5	11/14/2011	5.93	1/14/2012	4.23	3/16/2012	
5/16/2011	17.5	7/16/2011	42.1	9/15/2011	14.4	11/15/2011	5.79	1/15/2012	4.26	3/17/2012	
5/17/2011	16.2	7/17/2011	39.6	9/16/2011	13.7	11/16/2011	5	1/16/2012	4.35	3/18/2012	
5/18/2011	15.7	7/18/2011	37.5	9/17/2011	13.3	11/17/2011	5.84	1/17/2012	4.35	3/19/2012	
5/19/2011	14.3	7/19/2011	35.6	9/18/2011	12.7	11/18/2011	5.46	1/18/2012	4.21	3/20/2012	
5/20/2011	13.4	7/20/2011	35.1	9/19/2011	12.1	11/19/2011	5.48	1/19/2012	3.79	3/21/2012	
5/21/2011	12.9	7/21/2011	35.7	9/20/2011	11.8	11/20/2011	5.87	1/20/2012	3.94	3/22/2012	
5/22/2011	13.1	7/22/2011	37.2	9/21/2011	11.6	11/21/2011	5.7	1/21/2012	4.53	3/23/2012	
5/23/2011	13.7	7/23/2011	40.1	9/22/2011	11.5	11/22/2011	5.33	1/22/2012	5.02	3/24/2012	
5/24/2011	14	7/24/2011	43.5	9/23/2011	11.4	11/23/2011	5.16	1/23/2012	4.8	3/25/2012	
5/25/2011	14	7/25/2011	42.1	9/24/2011	11.1	11/24/2011	5.03	1/24/2012	4.29	3/26/2012	
5/26/2011	13	7/26/2011	38.3	9/25/2011	10.7	11/25/2011	4.98	1/25/2012	3.98	3/27/2012	
5/27/2011	14.1	7/27/2011	35.9	9/26/2011	10.7	11/26/2011	4.99	1/26/2012	3.95	3/28/2012	
5/28/2011	15.2	7/28/2011	36.4	9/27/2011	10.5	11/27/2011	4.94	1/27/2012	3.79	3/29/2012	
5/29/2011	17.3	7/29/2011	40.2	9/28/2011	10.5	11/28/2011	4.92	1/28/2012	3.67	3/30/2012	
5/30/2011	16.7	7/30/2011	51.6	9/29/2011	10.4	11/29/2011	4.82	1/29/2012	4.12	3/31/2012	
5/31/2011	15.2	7/31/2011	53.5	9/30/2011	10.3	11/30/2011	4.83	1/30/2012	3.79		
								1/31/2012	3.81		

5.5 DAILY AVERAGE FLOW AT WALKER CREEK BELOW CONDUIT (5016)

Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/2011	5.64	6/1/2011	10.5	8/1/2011	21.0	10/1/2011	5 20	12/1/2011	2.10	2/1/2012	2.62
4/1/2011 4/2/2011	5.64 7.14	6/1/2011 6/2/2011	10.5 9.99	8/2/2011	21.9 22	10/1/2011 10/2/2011	5.28 5.1	12/1/2011 12/2/2011	3.18 3.18	2/1/2012 2/2/2012	2.62 2.66
4/3/2011	7.17	6/3/2011	9.45	8/3/2011	22.3	10/3/2011	4.65	12/3/2011	3.18	2/3/2012	2.47
4/4/2011	7.09	6/4/2011	9.63	8/4/2011	20.8	10/4/2011	4.82	12/4/2011	3.18	2/4/2012	2.57
4/5/2011	7.45	6/5/2011	12	8/5/2011	19.7	10/5/2011	7.37	12/5/2011	3.18	2/5/2012	2.5
4/6/2011	5.51	6/6/2011	12.5	8/6/2011	19	10/6/2011	6.5	12/6/2011	3.18	2/6/2012	2.64
4/7/2011	3.52	6/7/2011	12.1	8/7/2011	18.1	10/7/2011	6.4	12/7/2011	3.57	2/7/2012	2.58
4/8/2011	3.87	6/8/2011	13.3	8/8/2011	17.4	10/8/2011	6.06	12/8/2011	3.83	2/8/2012	2.63
4/9/2011	3.16	6/9/2011	14.9	8/9/2011	16.6	10/9/2011	6.04	12/9/2011	3.82	2/9/2012	2.62
4/10/2011	2.96	6/10/2011	18.1	8/10/2011	15.9	10/10/2011	6.18	12/10/2011	3.73	2/10/2012	2.73
4/11/2011	2.95	6/11/2011	21.9	8/11/2011	15.6	10/11/2011	6.81	12/11/2011	3.69	2/11/2012	2.4
4/12/2011	2.86	6/12/2011	23.6	8/12/2011	14.8	10/12/2011	6.47	12/12/2011	3.66	2/12/2012	2.54
4/13/2011	2.66	6/13/2011	26.5	8/13/2011	10.4	10/13/2011	7.04	12/13/2011	3.68	2/13/2012	2.71
4/14/2011	2.55	6/14/2011	31.1	8/14/2011	11.4	10/14/2011	7.23	12/14/2011	3.58	2/14/2012	
4/15/2011	2.74	6/15/2011	35.1	8/15/2011	17.3	10/15/2011	7.29	12/15/2011	3.54	2/15/2012	
4/16/2011	6.79	6/16/2011	39.3	8/16/2011	14.5	10/16/2011	7.14	12/16/2011	3.53	2/16/2012	
4/17/2011	7.4	6/17/2011	38.2	8/17/2011	13.7	10/17/2011	7.11	12/17/2011	3.5	2/17/2012	
4/18/2011	9.2	6/18/2011	35.3	8/18/2011	13.2	10/18/2011	7	12/18/2011	3.47	2/18/2012	
4/19/2011	9.18	6/19/2011	35.9	8/19/2011	12.7	10/19/2011	6.7	12/19/2011	3.48	2/19/2012 2/20/2012	
4/20/2011 4/21/2011	9.23 8.81	6/20/2011 6/21/2011	38.4 38.4	8/20/2011 8/21/2011	12.3 11.9	10/20/2011 10/21/2011	6.39 6.05	12/20/2011 12/21/2011	3.45 3.42	2/20/2012	
4/22/2011	8.43	6/22/2011	41.6	8/22/2011	11.4	10/21/2011	5.87	12/21/2011	3.42	2/21/2012	
4/23/2011	8.72	6/23/2011	46.7	8/23/2011	11.1	10/23/2011	5.77	12/23/2011	2.75	2/23/2012	
4/24/2011	8.07	6/24/2011	47.6	8/24/2011	10.9	10/24/2011	5.69	12/24/2011	1.75	2/24/2012	
4/25/2011	7.93	6/25/2011	43.5	8/25/2011	10.6	10/25/2011	4.94	12/25/2011	1.36	2/25/2012	
4/26/2011	6.54	6/26/2011	39.6	8/26/2011	10.5	10/26/2011	5.06	12/26/2011	2.83	2/26/2012	
4/27/2011	6.1	6/27/2011	37	8/27/2011	10.4	10/27/2011	3.64	12/27/2011	3.21	2/27/2012	
4/28/2011	7.55	6/28/2011	36.5	8/28/2011	10.5	10/28/2011	5.05	12/28/2011	3.25	2/28/2012	
4/29/2011	5.37	6/29/2011	42	8/29/2011	10.3	10/29/2011	5.02	12/29/2011	3.38	2/29/2012	
4/30/2011	5.91	6/30/2011	38.4	8/30/2011	10.1	10/30/2011	4.97	12/30/2011	3.21		
				8/31/2011	9.89	10/31/2011	4.89	12/31/2011	3.04	3/1/2012	
5/1/2011	6.23	7/1/2011	32.5							3/2/2012	
5/2/2011	6.64	7/2/2011	32	9/1/2011	9.22	11/1/2011	4.74	1/1/2012	3.11	3/3/2012	
5/3/2011	6.64	7/3/2011	35.3	9/2/2011	9.02	11/2/2011	4.58	1/2/2012	3.13	3/4/2012	
5/4/2011	6.91	7/4/2011	39.2	9/3/2011	8.74	11/3/2011	4.85	1/3/2012	3.12	3/5/2012	
5/5/2011	8.78	7/5/2011	43.8	9/4/2011	8.37	11/4/2011	4.36	1/4/2012	3.21	3/6/2012	
5/6/2011	9.89	7/6/2011	46.2	9/5/2011	7.83	11/5/2011	4.63	1/5/2012	3.19	3/7/2012	
5/7/2011	12.2	7/7/2011	46.7	9/6/2011	7.7	11/6/2011	4.56	1/6/2012	3.14	3/8/2012	
5/8/2011	14.4	7/8/2011	50.1	9/7/2011	7.64	11/7/2011	4.57	1/7/2012	3.14	3/9/2012	
5/9/2011	13.4	7/9/2011 7/10/2011	47.4	9/8/2011 9/9/2011	7.49	11/8/2011 11/9/2011	4.56	1/8/2012	2.87	3/10/2012	
5/10/2011 5/11/2011	13.2 11.8	7/10/2011	42.4 38.3	9/9/2011	7.44 7.39	11/9/2011	4.42 4.37	1/9/2012 1/10/2012	2.34 2.36	3/11/2012 3/12/2012	
5/12/2011	10.7	7/11/2011	34.1	9/11/2011	8.06	11/11/2011	4.44	1/11/2012	2.43	3/12/2012	
5/13/2011	11.1	7/13/2011	31.3	9/12/2011	9.32	11/12/2011	4.58	1/12/2012	3.04	3/14/2012	
5/14/2011	12.8	7/14/2011	29.9	9/13/2011	9.09	11/13/2011	4.4	1/13/2012	2.77	3/15/2012	
5/15/2011	14.5	7/15/2011	29.2	9/14/2011	8.82	11/14/2011	4.27	1/14/2012	2.31	3/16/2012	
5/16/2011	14	7/16/2011	28.4	9/15/2011	8.66	11/15/2011	4.2	1/15/2012	1.89	3/17/2012	
5/17/2011	12.6	7/17/2011	27.8	9/16/2011	7.9	11/16/2011	4.02	1/16/2012	3.68	3/18/2012	
5/18/2011	12.3	7/18/2011	26.7	9/17/2011	7.43	11/17/2011	4.58	1/17/2012	2.45	3/19/2012	
5/19/2011	11.2	7/19/2011	25.6	9/18/2011	7.3	11/18/2011	4.88	1/18/2012	1.93	3/20/2012	
5/20/2011	10.2	7/20/2011	24.8	9/19/2011	7.1	11/19/2011	3.23	1/19/2012	3.38	3/21/2012	
5/21/2011	9.76	7/21/2011	23.5	9/20/2011	7.11	11/20/2011	3.33	1/20/2012	2.65	3/22/2012	
5/22/2011	10.3	7/22/2011	21.9	9/21/2011	7.23	11/21/2011	3.71	1/21/2012	2.52	3/23/2012	
5/23/2011	11.5	7/23/2011	21.3	9/22/2011	6.6	11/22/2011	3.92	1/22/2012	2.53	3/24/2012	
5/24/2011	11.6	7/24/2011	21	9/23/2011	6.36	11/23/2011	3.76	1/23/2012	2.54	3/25/2012	
5/25/2011	12	7/25/2011	21.2	9/24/2011	6.32	11/24/2011	3.72	1/24/2012	2.07	3/26/2012	
5/26/2011	11.8	7/26/2011	21.9	9/25/2011	6.04	11/25/2011	3.68	1/25/2012	1.35	3/27/2012	
5/27/2011	11.7	7/27/2011	23.3	9/26/2011	5.78	11/26/2011	3.69	1/26/2012	3.3	3/28/2012	
5/28/2011	13	7/28/2011	24.3	9/27/2011	5.82	11/27/2011	3.69	1/27/2012	1.73	3/29/2012	
5/29/2011	14.2	7/29/2011	24.5	9/28/2011	5.74	11/28/2011	3.69	1/28/2012	1.05	3/30/2012	
5/30/2011	13.8	7/30/2011	23.6	9/29/2011	5.6	11/29/2011	3.62	1/29/2012	3.64	3/31/2012	
5/31/2011	13.2	7/31/2011	22.7	9/30/2011	5.21	11/30/2011	3.48	1/30/2012	2.86		
								1/31/2012	2.44		

5.6 DAILY AVERAGE FLOW AT RUSH CREEK BELOW THE NARROWS

<u> </u>	DAIL! AV	LINAGE	FLOW AT	110311	OILLI	DELOW	THE ITAN	INCHIO			
Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/201	11 89.71	6/1/2011	207.7	8/1/2011	429.2	10/1/2011	58.28	12/1/2011	68.67	2/1/2012	51.88
4/1/20		6/2/2011	206.89	8/2/2011	364.1	10/1/2011	65.34	12/1/2011	72.8	2/1/2012	52.86
4/3/201		6/3/2011	216.55	8/3/2011	347.5	10/2/2011	68.64	12/3/2011	75.64	2/3/2012	53.77
4/4/201		6/4/2011	215.53	8/4/2011	331.1	10/4/2011	65.62	12/4/2011	59.23	2/4/2012	51.11
4/5/201		6/5/2011	210.7	8/5/2011	298.8	10/5/2011	65.57	12/5/2011	69	2/5/2012	53.32
4/6/201		6/6/2011	221.2	8/6/2011	269.9	10/6/2011	63.78	12/6/2011	70.22	2/6/2012	55
4/7/201		6/7/2011	228.9	8/7/2011	249	10/7/2011	69.42	12/7/2011	70.46	2/7/2012	50.45
4/8/201		6/8/2011	226.9	8/8/2011 8/9/2011	222.2	10/8/2011	82.46	12/8/2011	70.61	2/8/2012	50.33
4/9/201		6/9/2011	241.9	8/10/2011	204.6	10/9/2011	100.2	12/9/2011	71.16	2/9/2012	50.28
4/10/201 4/11/201		6/10/2011	260.2		204.3	10/10/2011	113.74	12/10/2011	70.89	2/10/2012	50.36
4/11/20		6/11/2011 6/12/2011	267.3 290.5	8/11/2011 8/12/2011	193.5 182.1	10/11/2011 10/12/2011	132.83 164.35	12/11/2011 12/12/2011	70.82 70.61	2/11/2012 2/12/2012	49.95 50.16
4/13/20		6/13/2011	318.9	8/13/2011	171	10/12/2011	188.24	12/12/2011	70.67	2/12/2012	50.18
4/14/201		6/14/2011	350.7	8/14/2011	160.7	10/13/2011	217.23	12/14/2011	70.58	2/13/2012	30.16
4/15/201		6/15/2011	381.6	8/15/2011	156.9	10/15/2011	259.94	12/15/2011	71.06	2/15/2012	
4/16/201		6/16/2011	416.2	8/16/2011	145.56	10/15/2011	315.45	12/16/2011	70.97	2/16/2012	
4/17/201		6/17/2011	441	8/17/2011	140.6	10/17/2011	355.12	12/17/2011	70.74	2/17/2012	
4/18/201		6/18/2011	438.5	8/18/2011	137.5	10/18/2011	364.76	12/18/2011	70.57	2/18/2012	
4/19/201		6/19/2011	446.7	8/19/2011	137.5	10/19/2011	361.03	12/19/2011	70.81	2/19/2012	
4/20/201		6/20/2011	450.3	8/20/2011	127.5	10/20/2011	365.59	12/20/2011	70.58	2/20/2012	
4/21/201		6/21/2011	438	8/21/2011	114.5	10/21/2011	368.89	12/21/2011	109.91	2/21/2012	
4/22/201		6/22/2011	435.1	8/22/2011	111.6	10/22/2011	366.54	12/22/2011	69.27	2/22/2012	
4/23/201		6/23/2011	445.8	8/23/2011	104.4	10/23/2011	366.28	12/23/2011	68.91	2/23/2012	
4/24/201		6/24/2011	458.6	8/24/2011	101.1	10/24/2011	346.56	12/24/2011	67.26	2/24/2012	
4/25/201		6/25/2011	450.2	8/25/2011	102.4	10/25/2011	295.66	12/25/2011	66.32	2/25/2012	
4/26/201		6/26/2011	429	8/26/2011	101.9	10/26/2011	241.01	12/26/2011	67.77	2/26/2012	
4/27/201		6/27/2011	424.1	8/27/2011	100.6	10/27/2011	181.51	12/27/2011	68.65	2/27/2012	
4/28/201	11 135.95	6/28/2011	424.2	8/28/2011	101.7	10/28/2011	157.77	12/28/2011	68.85	2/28/2012	
4/29/201	11 137.27	6/29/2011	434.7	8/29/2011	100.4	10/29/2011	135.59	12/29/2011	68.97	2/29/2012	
4/30/201	11 142.21	6/30/2011	423.4	8/30/2011	97	10/30/2011	119.42	12/30/2011	68.59		
				8/31/2011	93.09	10/31/2011	109.59	12/31/2011	68.02	3/1/2012	
5/1/20	11 147.13	7/1/2011	400							3/2/2012	
5/2/201	11 152.24	7/2/2011	403.1	9/1/2011	90.12	11/1/2011	87.15	1/1/2012	67.72	3/3/2012	
5/3/201	11 160.34	7/3/2011	419.6	9/2/2011	85.82	11/2/2011	68.29	1/2/2012	67.76	3/4/2012	
5/4/201	11 170.21	7/4/2011	461.7	9/3/2011	80.64	11/3/2011	67.39	1/3/2012	67.66	3/5/2012	
5/5/20	11 180.68	7/5/2011	520.2	9/4/2011	79.47	11/4/2011	66.57	1/4/2012	67.66	3/6/2012	
5/6/20		7/6/2011	555.1	9/5/2011	78.13	11/5/2011	69.12	1/5/2012	67.88	3/7/2012	
5/7/20		7/7/2011	564.7	9/6/2011	73.9	11/6/2011	69.63	1/6/2012	67.69	3/8/2012	
5/8/201		7/8/2011	564.2	9/7/2011	72.44	11/7/2011	69.78	1/7/2012	67.66	3/9/2012	
5/9/201		7/9/2011	552.2	9/8/2011	71.49	11/8/2011	69.63	1/8/2012	67.39	3/10/2012	
5/10/201		7/10/2011	539.4	9/9/2011	68.34	11/9/2011	69.41	1/9/2012	67.26	3/11/2012	
5/11/201		7/11/2011	502.5	9/10/2011	63.09	11/10/2011	69.31	1/10/2012	67.73	3/12/2012	
5/12/201		7/12/2011	466.8	9/11/2011	62.76	11/11/2011	69.36	1/11/2012	67.86	3/13/2012	
5/13/201		7/13/2011	421.25	9/12/2011	65.32	11/12/2011	69.98	1/12/2012	68.17	3/14/2012	
5/14/20		7/14/2011	357.1	9/13/2011	64.69	11/13/2011 11/14/2011	70.06	1/13/2012	67.4	3/15/2012	
5/15/20		7/15/2011 7/16/2011	307.2 277.25	9/14/2011 9/15/2011	63.62		69.6 68.79	1/14/2012	66.94 66.55	3/16/2012 3/17/2012	
5/16/20					62.36	11/15/2011		1/15/2012			
5/17/20 5/18/20		7/17/2011 7/18/2011	276.6 283	9/16/2011 9/17/2011	60.8 59.93	11/16/2011 11/17/2011	66.62 67.32	1/16/2012 1/17/2012	68.43 67.5	3/18/2012 3/19/2012	
5/19/201		7/19/2011	282.1	9/18/2011	59.2	11/18/2011	69.04	1/18/2012	67.34	3/20/2012	
5/20/201		7/20/2011	291.9	9/19/2011	58.4	11/19/2011	69.91	1/19/2012	68.27	3/20/2012	
5/21/20		7/21/2011	295.2	9/20/2011	57.91	11/20/2011	70.3	1/20/2012	67.79	3/22/2012	
5/22/201		7/22/2011	299.1	9/21/2011	57.63	11/20/2011	70.61	1/21/2012	68.45	3/23/2012	
5/23/20		7/23/2011	306.4	9/22/2011	56.6	11/22/2011	70.35	1/22/2012	68.75	3/24/2012	
5/24/20		7/24/2011	316	9/23/2011	57.46	11/23/2011	69.32	1/23/2012	68.54	3/25/2012	
5/25/20		7/25/2011	323.3	9/24/2011	58.72	11/24/2011	69.15	1/24/2012	67.56	3/26/2012	
5/26/20		7/26/2011	320.2	9/25/2011	57.84	11/25/2011	69.06	1/25/2012	66.53	3/27/2012	
5/27/20		7/27/2011	330.2	9/26/2011	56.88	11/26/2011	69.08	1/26/2012	68.45	3/28/2012	
5/28/20		7/28/2011	347.7	9/27/2011	56.82	11/27/2011	68.83	1/27/2012	66.72	3/29/2012	
5/29/20		7/29/2011	359.7	9/28/2011	56.94	11/28/2011	68.61	1/28/2012	65.92	3/30/2012	
5/30/201		7/30/2011	411.2	9/29/2011	56.2	11/29/2011	68.44	1/29/2012	62.16	3/31/2012	
				9/30/2011							
5/31/201	11 209.7	7/31/2011	472.2	9/30/2011	55.61	11/30/2011	68.51	1/30/2012	61.05		

5.7 DAILY AVERAGE FLOW AT LEE VINING CREEK ABOVE INTAKE (5008)

Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
	. ,										` '
4/1/2011	39	6/1/2011	152	8/1/2011	250	10/1/2011	44.3	12/1/2011	34.8	2/1/2012	16.7
4/2/2011	44.7	6/2/2011	123	8/2/2011	223	10/2/2011	42.5	12/2/2011	28.4	2/2/2012	17.3
4/3/2011	52.6	6/3/2011	105	8/3/2011	214	10/3/2011	41.3	12/3/2011	28.4	2/3/2012	20.5
4/4/2011	50.7	6/4/2011	103	8/4/2011	210	10/4/2011	56.2	12/4/2011	36	2/4/2012	22.2
4/5/2011 4/6/2011	78.2 96.7	6/5/2011 6/6/2011	97.3 94.4	8/5/2011 8/6/2011	201 195	10/5/2011 10/6/2011	79.1 90.7	12/5/2011 12/6/2011	25 33.1	2/5/2012 2/6/2012	20 19.7
4/7/2011	96.7	6/7/2011	130	8/7/2011	193	10/6/2011	119	12/7/2011	24.2	2/7/2012	17.2
4/8/2011	94.5	6/8/2011	159	8/8/2011	184	10/8/2011	99.7	12/8/2011	23.6	2/8/2012	16.7
4/9/2011	82.3	6/9/2011	167	8/9/2011	178	10/9/2011	84.2	12/9/2011	22.7	2/9/2012	16.3
4/10/2011	74.3	6/10/2011	197	8/10/2011	173	10/10/2011	82.1	12/10/2011	27.4	2/10/2012	16.5
4/11/2011	74.3	6/11/2011	240	8/11/2011	169	10/11/2011	82.5	12/11/2011	21.5	2/11/2012	16.4
4/12/2011	74.2	6/12/2011	243	8/12/2011	167	10/12/2011	81.2	12/12/2011	24.1	2/12/2012	16.3
4/13/2011	76.3	6/13/2011	285	8/13/2011	163	10/13/2011	85.7	12/13/2011	20.7	2/13/2012	16.2
4/14/2011	80.5	6/14/2011	319	8/14/2011	161	10/14/2011	90.9	12/14/2011	24.5	2/14/2012	
4/15/2011	77.6	6/15/2011	352	8/15/2011	165	10/15/2011	90.8	12/15/2011	20.1	2/15/2012	
4/16/2011	72.3	6/16/2011	399	8/16/2011	162	10/16/2011	89.5	12/16/2011	19.6	2/16/2012	
4/17/2011	85.3	6/17/2011	369	8/17/2011	156	10/17/2011	86.4	12/17/2011	23.3	2/17/2012	
4/18/2011	101	6/18/2011	352	8/18/2011	137	10/18/2011	75.7	12/18/2011	22.2	2/18/2012	
4/19/2011	105	6/19/2011	377	8/19/2011	130	10/19/2011	67.4	12/19/2011	18.4	2/19/2012	
4/20/2011	105	6/20/2011	385	8/20/2011	150	10/20/2011	63.7	12/20/2011	20.3	2/20/2012	
4/21/2011	102	6/21/2011	390	8/21/2011	143	10/21/2011	44.9	12/21/2011	19.4	2/21/2012	
4/22/2011	96.2	6/22/2011	434	8/22/2011	135	10/22/2011	33.6	12/22/2011	32.2	2/22/2012	
4/23/2011	87.3	6/23/2011	483	8/23/2011	133	10/23/2011	33.1	12/23/2011	29.2	2/23/2012	
4/24/2011	82	6/24/2011	485	8/24/2011	138	10/24/2011	32.3	12/24/2011	30.9	2/24/2012	
4/25/2011	75.7	6/25/2011	423	8/25/2011	142	10/25/2011	34.6	12/25/2011	31.1	2/25/2012	
4/26/2011	73.5	6/26/2011 6/27/2011	405	8/26/2011	140	10/26/2011	35.7	12/26/2011	16.3	2/26/2012	
4/27/2011 4/28/2011	73.5	6/28/2011	388	8/27/2011 8/28/2011	143	10/27/2011 10/28/2011	40.4	12/27/2011	16.2 16.4	2/27/2012 2/28/2012	
4/29/2011	74.5 74.5	6/29/2011	398 399	8/29/2011	148	10/28/2011	40.3 39.8	12/28/2011 12/29/2011		2/29/2012	
4/30/2011	74.3 74.1	6/30/2011	310	8/30/2011	145 136	10/29/2011	39.6	12/29/2011	16.6 16.1	2/29/2012	
4/30/2011	/4.1	0/30/2011	310	8/31/2011	128	10/30/2011	39.5	12/30/2011	15.9	3/1/2012	
5/1/2011	73.6	7/1/2011	300	0/31/2011	120	10/31/2011	37.3	12/31/2011	15.5	3/2/2012	
5/2/2011	57.3	7/2/2011	370	9/1/2011	121	11/1/2011	39.4	1/1/2012	16	3/3/2012	
5/3/2011	86.4	7/3/2011	427	9/2/2011	116	11/2/2011	39	1/2/2012	15.7	3/4/2012	
5/4/2011	110	7/4/2011	446	9/3/2011	113	11/3/2011	38.8	1/3/2012	15.7	3/5/2012	
5/5/2011	130	7/5/2011	488	9/4/2011	110	11/4/2011	38.9	1/4/2012	15.7	3/6/2012	
5/6/2011	155	7/6/2011	439	9/5/2011	107	11/5/2011	38.4	1/5/2012	16	3/7/2012	
5/7/2011	171	7/7/2011	451	9/6/2011	104	11/6/2011	39.2	1/6/2012	15.7	3/8/2012	
5/8/2011	165	7/8/2011	454	9/7/2011	103	11/7/2011	38.5	1/7/2012	15.5	3/9/2012	
5/9/2011	143	7/9/2011	398	9/8/2011	102	11/8/2011	37.1	1/8/2012	18.8	3/10/2012	
5/10/2011	124	7/10/2011	361	9/9/2011	102	11/9/2011	35.1	1/9/2012	15.6	3/11/2012	
5/11/2011	115	7/11/2011	323	9/10/2011	102	11/10/2011	35	1/10/2012	15.6	3/12/2012	
5/12/2011	123	7/12/2011	311	9/11/2011	108	11/11/2011	34	1/11/2012	15.5	3/13/2012	
5/13/2011	147	7/13/2011	305	9/12/2011	92.8	11/12/2011	30.7	1/12/2012	17.4	3/14/2012	
5/14/2011	171	7/14/2011	287	9/13/2011	100	11/13/2011	30.5	1/13/2012	21	3/15/2012	
5/15/2011	164	7/15/2011	276	9/14/2011	101	11/14/2011	30.3	1/14/2012	19.3	3/16/2012	
5/16/2011	141	7/16/2011	267	9/15/2011	98.9	11/15/2011	29.7	1/15/2012	15.5	3/17/2012	
5/17/2011	125	7/17/2011	251	9/16/2011	95.7	11/16/2011	29.7	1/16/2012	16.3	3/18/2012	
5/18/2011	115	7/18/2011	234	9/17/2011	92	11/17/2011	29.5	1/17/2012	29.4	3/19/2012	
5/19/2011	105	7/19/2011	223	9/18/2011	88.7	11/18/2011	29	1/18/2012	15.3	3/20/2012	
5/20/2011 5/21/2011	101 109	7/20/2011 7/21/2011	223 232	9/19/2011 9/20/2011	86.5	11/19/2011 11/20/2011	28.8	1/19/2012 1/20/2012	15.1	3/21/2012 3/22/2012	
5/22/2011	120	7/21/2011	232	9/20/2011	87.1 86.6	11/20/2011	29 28.6	1/20/2012	16.4 27.1	3/22/2012	
5/23/2011	130	7/23/2011	234	9/21/2011	86.6 83.8	11/21/2011	28.4	1/21/2012	24.3	3/23/2012	
5/24/2011	134	7/24/2011	251	9/22/2011	81.7	11/22/2011	28.3	1/23/2012	18	3/25/2012	
5/25/2011	147	7/25/2011	238	9/24/2011	80.3	11/23/2011	28.3	1/23/2012	17.4	3/26/2012	
5/26/2011	147	7/26/2011	214	9/25/2011	78.7	11/24/2011	28.3	1/25/2012	17.4	3/27/2012	
5/27/2011	166	7/20/2011	207	9/26/2011	74.6	11/25/2011	27.6	1/25/2012	17.1	3/28/2012	
5/28/2011	168	7/28/2011	212	9/27/2011	54.2	11/27/2011	27.6	1/27/2012	17.4	3/29/2012	
5/29/2011	143	7/29/2011	221	9/28/2011	50.9	11/28/2011	27.6	1/28/2012	19.2	3/30/2012	
5/30/2011	94.4	7/30/2011	255	9/29/2011	49.5	11/29/2011	27.6	1/29/2012	17.4	3/31/2012	
										· ·	
5/31/2011	109	7/31/2011	271	9/30/2011	44.9	11/30/2011	27.3	1/30/2012	17.2		

5.8 DAILY AVERAGE FLOW AT LEE VINING CREEK AT INTAKE (5009)

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Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)	Date	Flow (cfs)
4/1/2011	30	6/1/2011	131	8/1/2011	254	10/1/2011	31	12/1/2011	27	2/1/2012	19
4/1/2011	34	6/2/2011	99.9	8/2/2011	222	10/1/2011	30.5	12/1/2011	29	2/2/2012	19
4/3/2011	48	6/3/2011	80	8/3/2011	176	10/3/2011	30.5	12/3/2011	28	2/3/2012	18
4/4/2011	35	6/4/2011	76.3	8/4/2011	175	10/4/2011	31.8	12/4/2011	26.1	2/4/2012	19
4/5/2011	59	6/5/2011	74.5	8/5/2011	164	10/5/2011	30.9	12/5/2011	27.8	2/5/2012	20
4/6/2011	82	6/6/2011	77.5	8/6/2011	158	10/6/2011	30	12/6/2011	25.3	2/6/2012	20
4/7/2011	81	6/7/2011	83.7	8/7/2011	158	10/7/2011	43.4	12/7/2011	23	2/7/2012	18.8
4/8/2011	73	6/8/2011	129	8/8/2011	152	10/8/2011	30.9	12/8/2011	24	2/8/2012	18.8
4/9/2011	70	6/9/2011	137	8/9/2011	147	10/9/2011	31.4	12/9/2011	21	2/9/2012	15
4/10/2011	56	6/10/2011	149	8/10/2011	141	10/10/2011	31.4	12/10/2011	23	2/10/2012	17.7
4/11/2011	58	6/11/2011	212	8/11/2011	139	10/11/2011	31.8	12/11/2011	20	2/11/2012	18.1
4/12/2011	58	6/12/2011	191	8/12/2011	134	10/12/2011	31.8	12/12/2011	22	2/12/2012	18.1
4/13/2011	57	6/13/2011	242	8/13/2011	131	10/13/2011	31.4	12/13/2011	20	2/13/2012	17.7
4/14/2011	65	6/14/2011	328	8/14/2011	128	10/14/2011	31.8	12/14/2011	31	2/14/2012	15
4/15/2011	65	6/15/2011	360	8/15/2011	135	10/15/2011	31.8	12/15/2011	22	2/15/2012	15
4/16/2011	55	6/16/2011	420	8/16/2011	135	10/16/2011	30.5	12/16/2011	19	2/16/2012	15
4/17/2011	59	6/17/2011	393	8/17/2011	130	10/17/2011	28.7	12/17/2011	21	2/17/2012	15.9
4/18/2011	83	6/18/2011	365	8/18/2011 8/19/2011	124	10/18/2011	27	12/18/2011	20	2/18/2012	18.1
4/19/2011 4/20/2011	86 81	6/19/2011 6/20/2011	386 405	8/19/2011	83.1 124	10/19/2011 10/20/2011	28.7 28.7	12/19/2011	20 19	2/19/2012	18.1 18.1
4/20/2011	78	6/21/2011	403	8/21/2011	118	10/20/2011	28.7	12/20/2011 12/21/2011	19	2/20/2012 2/21/2012	18.1
4/22/2011	75	6/22/2011	450	8/22/2011	109	10/21/2011	28.3	12/21/2011	14.1	2/22/2012	10.1
4/23/2011	67	6/23/2011	509	8/23/2011	106	10/23/2011	29.2	12/23/2011	16	2/23/2012	
4/24/2011	64	6/24/2011	532	8/24/2011	110	10/24/2011	28.7	12/24/2011	17	2/24/2012	
4/25/2011	55	6/25/2011	450	8/25/2011	114	10/25/2011	30	12/25/2011	18	2/25/2012	
4/26/2011	57	6/26/2011	432	8/26/2011	113	10/26/2011	30	12/26/2011	16	2/26/2012	
4/27/2011	57	6/27/2011	405	8/27/2011	112	10/27/2011	30	12/27/2011	17	2/27/2012	
4/28/2011	57	6/28/2011	421	8/28/2011	121	10/28/2011	30	12/28/2011	17	2/28/2012	
4/29/2011	58	6/29/2011	421	8/29/2011	118	10/29/2011	30	12/29/2011	16	2/29/2012	
4/30/2011	57.9	6/30/2011	324	8/30/2011	99.2	10/30/2011	28.7	12/30/2011	17		
				8/31/2011	85	10/31/2011	28.7	12/31/2011	17.1	3/1/2012	
5/1/2011	57	7/1/2011	302							3/2/2012	
5/2/2011	57	7/2/2011	375	9/1/2011	72.1	11/1/2011	28.7	1/1/2012	18	3/3/2012	
5/3/2011	65	7/3/2011	453	9/2/2011	61	11/2/2011	41	1/2/2012	18	3/4/2012	
5/4/2011	91	7/4/2011	477	9/3/2011	49	11/3/2011	39	1/3/2012	17.7	3/5/2012	
5/5/2011	101	7/5/2011	528	9/4/2011	37.9	11/4/2011	39	1/4/2012	17.7	3/6/2012	
5/6/2011	128	7/6/2011	441	9/5/2011	30.5	11/5/2011	40.9	1/5/2012	17.7	3/7/2012	
5/7/2011	145	7/7/2011	475	9/6/2011	30	11/6/2011	41.9	1/6/2012	18	3/8/2012	
5/8/2011	139	7/8/2011	500	9/7/2011	30.9	11/7/2011	40.9	1/7/2012	18	3/9/2012	
5/9/2011 5/10/2011	115 95	7/9/2011 7/10/2011	432 388	9/8/2011 9/9/2011	30.5 30.9	11/8/2011 11/9/2011	40.4 35	1/8/2012	17 18	3/10/2012	
5/11/2011	90	7/10/2011	339	9/9/2011	30.5	11/9/2011	35.2	1/9/2012 1/10/2012	18	3/11/2012 3/12/2012	
5/12/2011	95	7/11/2011	324	9/10/2011	30.3	11/10/2011	35.2	1/11/2012	18	3/13/2012	
5/13/2011	116	7/13/2011	320	9/12/2011	29.6	11/11/2011	31	1/11/2012	18	3/14/2012	
5/14/2011	142	7/14/2011	298	9/13/2011	30.5	11/13/2011	30	1/13/2012	16	3/15/2012	
5/15/2011	128	7/15/2011	286	9/14/2011	30.5	11/14/2011	31.5	1/14/2012	16.2	3/16/2012	
5/16/2011	109	7/16/2011	281	9/15/2011	30	11/15/2011	29	1/15/2012	17	3/17/2012	
5/17/2011	96	7/17/2011	261	9/16/2011	29.6	11/16/2011	29	1/16/2012	15.5	3/18/2012	
5/18/2011	88	7/18/2011	242	9/17/2011	29.6	11/17/2011	29	1/17/2012	14.1	3/19/2012	
5/19/2011	81	7/19/2011	196	9/18/2011	30	11/18/2011	29	1/18/2012	14	3/20/2012	
5/20/2011	76	7/20/2011	193	9/19/2011	30	11/19/2011	28	1/19/2012	14	3/21/2012	
5/21/2011	81	7/21/2011	207	9/20/2011	30.9	11/20/2011	29	1/20/2012	17	3/22/2012	
5/22/2011	91	7/22/2011	201	9/21/2011	30.9	11/21/2011	29	1/21/2012	18	3/23/2012	
5/23/2011	105	7/23/2011	208	9/22/2011	30.9	11/22/2011	29	1/22/2012	19	3/24/2012	
5/24/2011	109	7/24/2011	223	9/23/2011	31.4	11/23/2011	28	1/23/2012	20	3/25/2012	
5/25/2011	110	7/25/2011	251	9/24/2011	31.4	11/24/2011	28	1/24/2012	18.5	3/26/2012	
5/26/2011	117	7/26/2011	172	9/25/2011	31.4	11/25/2011	28	1/25/2012	18.5	3/27/2012	
5/27/2011	125	7/27/2011	166	9/26/2011	31.8	11/26/2011	27	1/26/2012	18.5	3/28/2012	
5/28/2011	137	7/28/2011	176	9/27/2011	30.5	11/27/2011	28	1/27/2012	18	3/29/2012	
5/29/2011	134	7/29/2011	180	9/28/2011	30.5	11/28/2011	28	1/28/2012	17.3	3/30/2012	
5/30/2011	67.4	7/30/2011	200	9/29/2011	30	11/29/2011	28	1/29/2012	16	3/31/2012	
5/31/2011	85.8	7/31/2011	233	9/30/2011	30	11/30/2011	29	1/30/2012	15		
0/31/2011								1/31/2012	18.7		

# 6. APPENDIX B: TIME-LAPSE PHOTOS

#### 6.1 TIME-LAPSE PHOTOS TAKEN AT LEE VINING RIFFLE 2 (R2)

Extensive anchor ice formation in December 22, 2011.



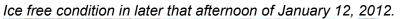
Ice free condition in March 6, 2012.



6.2 TIME-LAPSE PHOTOS TAKEN AT LEE VINING SECTION D RIFFLE (DR)

Anchor Ice formation in the morning of January 12, 2012.







#### 6.3 TIME-LAPSE PHOTOS TAKEN AT LEE VINING SECTION D POOL (DP)

Extensive surface Ice formation in December 23, 2011.

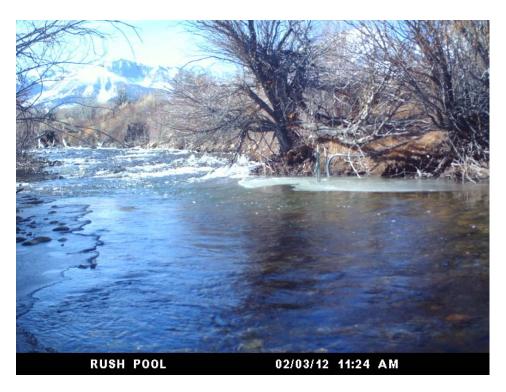


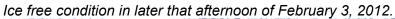
Ice free condition in January 7, 2012.



#### 6.4 TIME-LAPSE PHOTOS TAKEN AT RUSH CREEK 5P-8

Surface Ice formation in the morning of February 3, 2012.







## 7. APPENDIX B: DAILY GROUNDWATER ELEVATION

#### 7.1 DAILY GROUNDWATER ELEVATION AT 8C-2

4/1/11				Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
	4.329	6/1/11	2.941	8/1/11	2.225	10/1/11	4.479	12/1/11	3.737	2/1/12	3.888
4/2/11	3.866	6/2/11	3.002	8/2/11	2.263	10/2/11	4.431	12/2/11	3.761	2/2/12	4.100
4/3/11 4/4/11	3.628	6/3/11 6/4/11	3.014 3.018	8/3/11 8/4/11	2.318 2.403	10/3/11 10/4/11	4.405 4.420	12/3/11 12/4/11	3.741 3.765	2/3/12 2/4/12	4.211 4.251
4/4/11	3.500 3.390	6/5/11	2.946	8/4/11	2.403	10/4/11	4.448	12/4/11	3.728	2/4/12	4.231
4/6/11	3.314	6/6/11	2.948	8/6/11	2.619	10/5/11	4.509	12/5/11	3.748	2/6/12	4.270
4/7/11	3.266	6/7/11	2.943	8/7/11	2.690	10/7/11	4.525	12/7/11	3.733	2/7/12	4.284
4/8/11	3.253	6/8/11	2.905	8/8/11	2.759	10/8/11	4.438	12/8/11	3.721	2/8/12	4.320
4/9/11	3.218	6/9/11	2.864	8/9/11	2.831	10/9/11	4.302	12/9/11	3.718	2/9/12	4.346
4/10/11	3.220	6/10/11	2.798	8/10/11	2.873	10/10/11	4.203	12/10/11	3.727	2/10/12	4.355
4/11/11	3.219	6/11/11	2.729	8/11/11	2.917	10/11/11	4.050	12/11/11	3.727	2/11/12	4.373
4/12/11	3.237	6/12/11	2.665	8/12/11	2.981	10/12/11	3.531	12/12/11	3.733	2/12/12	4.389
4/13/11	3.278	6/13/11	2.591	8/13/11	3.043	10/13/11	3.208	12/13/11	3.723	2/13/12	4.394
4/14/11 4/15/11	3.335 3.340	6/14/11 6/15/11	2.475 2.378	8/14/11 8/15/11	3.115 3.148	10/14/11 10/15/11	2.979 2.792	12/14/11 12/15/11	3.738 3.729	2/14/12 2/15/12	4.402 4.421
4/15/11	3.304	6/16/11	2.378	8/16/11	3.148	10/13/11	2.609	12/13/11	3.729	2/15/12	4.421
4/17/11	3.260	6/17/11	2.204	8/17/11	3.296	10/17/11	2.466	12/17/11	3.730	2/17/12	4.430
4/18/11	3.210	6/18/11	2.178	8/18/11	3.337	10/18/11	2.396	12/18/11	3.738	2/18/12	4.381
4/19/11	3.207	6/19/11	2.152	8/19/11	3.361	10/19/11	2.382	12/19/11	3.727	2/19/12	4.404
4/20/11	3.196	6/20/11	2.124	8/20/11	3.388	10/20/11	2.363	12/20/11	3.728	2/20/12	4.425
4/21/11	3.207	6/21/11	2.148	8/21/11	3.458	10/21/11	2.344	12/21/11	3.733	2/21/12	4.426
4/22/11	3.238	6/22/11	2.162	8/22/11	3.508	10/22/11	2.339	12/22/11	3.749	2/22/12	4.429
4/23/11	3.236	6/23/11	2.143	8/23/11	3.569	10/23/11	2.333	12/23/11	3.753	2/23/12	4.423
4/24/11	3.264	6/24/11	2.137	8/24/11	3.671	10/24/11	2.388	12/24/11	3.772	2/24/12	4.427
4/25/11	3.293	6/25/11	2.149	8/25/11	3.721	10/25/11	2.562	12/25/11	3.770	2/25/12	4.412
4/26/11	3.333	6/26/11	2.191	8/26/11	3.754	10/26/11	2.708	12/26/11	3.755	2/26/12	4.450
4/27/11 4/28/11	3.343	6/27/11	2.232	8/27/11	3.781	10/27/11	2.864	12/27/11	3.746	2/27/12	4.455
4/28/11	3.301 3.310	6/28/11 6/29/11	2.258 2.205	8/28/11 8/29/11	3.801 3.821	10/28/11 10/29/11	3.001 3.178	12/28/11 12/29/11	3.733 3.717	2/28/12 2/29/12	4.446 4.389
4/29/11	3.308	6/30/11	2.203	8/30/11	3.856	10/29/11	3.178	12/29/11	3.717	2/29/12	4.369
4/30/11	3.300	0/30/11	2.217	8/31/11	3.900	10/31/11	3.379	12/31/11	3.737	3/1/12	4.443
5/1/11	3.274	7/1/11	2.271							3/2/12	4.444
5/2/11	3.218	7/2/11	2.298	9/1/11	3.931	11/1/11	3.544	1/1/12	3.739	3/3/12	4.451
5/3/11	3.176	7/3/11	2.240	9/2/11	3.962	11/2/11	3.662	1/2/12	3.737	3/4/12	4.441
5/4/11	3.142	7/4/11	2.103	9/3/11	4.018	11/3/11	3.572	1/3/12	3.729	3/5/12	4.468
5/5/11	3.108	7/5/11	1.961	9/4/11	4.041	11/4/11	3.560	1/4/12	3.735	3/6/12	4.485
5/6/11	3.087	7/6/11	1.859	9/5/11	4.059	11/5/11	3.573	1/5/12	3.736	3/7/12	4.525
5/7/11	3.034	7/7/11	1.847	9/6/11	4.091	11/6/11	3.583	1/6/12	3.740	3/8/12	4.487
5/8/11 5/9/11	2.980 2.954	7/8/11 7/9/11	1.847 1.878	9/7/11 9/8/11	4.155 4.193	11/7/11 11/8/11	3.599 3.620	1/7/12 1/8/12	3.747 3.783	3/9/12 3/10/12	4.411 4.391
5/10/11	2.934	7/10/11	1.924	9/9/11	4.193	11/9/11	3.631	1/9/12	3.741	3/10/12	4.235
5/11/11	2.948	7/11/11	1.971	9/10/11	4.273	11/10/11	3.631	1/10/12	3.732	3/11/12	4.146
5/12/11	2.963	7/12/11	2.010	9/11/11	4.302	11/11/11	3.628	1/11/12	3.745	3/13/12	
5/13/11	2.968	7/13/11	2.137	9/12/11	4.306	11/12/11	3.621	1/12/12	3.766	3/14/12	
5/14/11	2.951	7/14/11	2.364	9/13/11	4.313	11/13/11	3.621	1/13/12	3.773	3/15/12	
5/15/11	2.914	7/15/11	2.559	9/14/11	4.326	11/14/11	3.629	1/14/12	3.767	3/16/12	
5/16/11	2.901	7/16/11	2.683	9/15/11	4.343	11/15/11	3.688	1/15/12	3.760	3/17/12	
5/17/11	2.912	7/17/11	2.710	9/16/11	4.362	11/16/11	3.693	1/16/12	3.772	3/18/12	
5/18/11	2.936	7/18/11	2.676	9/17/11	4.383	11/17/11	3.696	1/17/12	3.783	3/19/12	
5/19/11	2.958	7/19/11	2.643	9/18/11	4.400	11/18/11	3.688	1/18/12	3.778	3/20/12	
5/20/11	2.985	7/20/11	2.600	9/19/11	4.411	11/19/11	3.680	1/19/12	3.757	3/21/12	
5/21/11 5/22/11	2.999 3.010	7/21/11 7/22/11	2.568 2.539	9/20/11 9/21/11	4.422 4.433	11/20/11 11/21/11	3.692 3.706	1/20/12 1/21/12	3.754 3.663	3/22/12 3/23/12	
5/23/11	2.975	7/23/11	2.339	9/21/11	4.433	11/21/11	3.700	1/21/12	3.714	3/23/12	
5/24/11	2.958	7/24/11	2.434	9/23/11	4.439	11/22/11	3.705	1/22/12	3.683	3/25/12	
5/25/11	2.935	7/25/11	2.408	9/24/11	4.432	11/24/11	3.716	1/24/12	3.704	3/26/12	
5/26/11	2.967	7/26/11	2.386	9/25/11	4.451	11/25/11	3.723	1/25/12	3.728	3/27/12	
5/27/11	2.960	7/27/11	2.400	9/26/11	4.463	11/26/11	3.724	1/26/12	3.743	3/28/12	
5/28/11	2.930	7/28/11	2.440	9/27/11	4.468	11/27/11	3.726	1/27/12	3.748	3/29/12	
5/29/11	2.895	7/29/11	2.430	9/28/11	4.458	11/28/11	3.724	1/28/12	3.783	3/30/12	
5/30/11	2.889	7/30/11	2.372	9/29/11	4.458	11/29/11	3.727	1/29/12	3.786	3/31/12	
5/31/11	2.876	7/31/11	2.260	9/30/11	4.465	11/30/11	3.719	1/30/12	3.761		
								1/31/12	3.788		

# 7.2 DAILY GROUNDWATER ELEVATION AT 8C-3

Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
4/1/11	6.551	6/1/11	5.593	8/1/11	4.963	10/1/11	7.729	12/1/11	6.179	2/1/12	6.455
4/2/11	6.257	6/2/11	5.673	8/2/11	5.000	10/2/11	7.726	12/2/11	6.225	2/2/12	7.166
4/3/11	6.090	6/3/11	5.724	8/3/11	5.077	10/3/11	7.765	12/3/11	6.171	2/3/12	7.590
4/4/11	5.983	6/4/11	5.742	8/4/11	5.182	10/4/11	7.790	12/4/11	6.220	2/4/12	7.677
4/5/11	5.917	6/5/11	5.645	8/5/11	5.278	10/5/11	7.800	12/5/11	6.146	2/5/12	7.672
4/6/11	5.864	6/6/11	5.642	8/6/11	5.392	10/6/11	7.770	12/6/11	6.165	2/6/12	7.675
4/7/11	5.853	6/7/11	5.622	8/7/11	5.461	10/7/11	7.720	12/7/11	6.135	2/7/12	7.672
4/8/11	5.851	6/8/11	5.552	8/8/11	5.537	10/8/11	7.720	12/8/11	6.102	2/8/12	7.672
4/9/11	5.804	6/9/11	5.476	8/9/11	5.637	10/9/11	7.721	12/9/11	6.084	2/9/12	7.673
4/10/11	5.747	6/10/11	5.376	8/10/11	5.700	10/10/11	7.720	12/10/11	6.081	2/10/12	7.671
4/11/11 4/12/11	5.739	6/11/11 6/12/11	5.308	8/11/11 8/12/11	5.736 5.798	10/11/11 10/12/11	7.720 6.910	12/11/11	6.077 6.086	2/11/12	7.670
4/12/11	5.741 5.781	6/12/11	5.240 5.142	8/12/11	5.890	10/12/11	6.009	12/12/11 12/13/11	6.069	2/12/12 2/13/12	7.670 7.669
4/13/11	5.833	6/14/11	5.027	8/14/11	6.001	10/13/11	5.625	12/13/11	6.084	2/13/12	7.672
4/15/11	5.840	6/15/11	4.959	8/15/11	6.060	10/14/11	5.405	12/14/11	6.077	2/14/12	7.668
4/16/11	5.800	6/16/11	4.902	8/16/11	6.151	10/15/11	5.225	12/16/11	6.075	2/15/12	7.669
4/17/11	5.753	6/17/11	4.837	8/17/11	6.237	10/17/11	5.070	12/17/11	6.085	2/17/12	7.670
4/18/11	5.729	6/18/11	4.809	8/18/11	6.327	10/18/11	4.971	12/18/11	6.090	2/18/12	7.669
4/19/11	5.714	6/19/11	4.779	8/19/11	6.406	10/19/11	4.943	12/19/11	6.082	2/19/12	7.670
4/20/11	5.733	6/20/11	4.747	8/20/11	6.462	10/20/11	4.922	12/20/11	6.073	2/20/12	7.671
4/21/11	5.753	6/21/11	4.759	8/21/11	6.668	10/21/11	4.901	12/21/11	6.083	2/21/12	7.669
4/22/11	5.794	6/22/11	4.777	8/22/11	6.959	10/22/11	4.889	12/22/11	6.103	2/22/12	7.669
4/23/11	5.824	6/23/11	4.776	8/23/11	7.189	10/23/11	4.879	12/23/11	6.272	2/23/12	7.668
4/24/11	5.841	6/24/11	4.784	8/24/11	7.350	10/24/11	4.915	12/24/11	6.302	2/24/12	7.666
4/25/11	5.846	6/25/11	4.808	8/25/11	7.466	10/25/11	5.069	12/25/11	6.267	2/25/12	7.669
4/26/11	5.886	6/26/11	4.840	8/26/11	7.543	10/26/11	5.212	12/26/11	6.220	2/26/12	7.668
4/27/11	5.889	6/27/11	4.886	8/27/11	7.603	10/27/11	5.394	12/27/11	6.187	2/27/12	7.670
4/28/11	5.857	6/28/11	4.930	8/28/11	7.651	10/28/11	5.605	12/28/11	6.148	2/28/12	7.666
4/29/11	5.862	6/29/11	4.882	8/29/11	7.711	10/29/11	6.177	12/29/11	6.101	2/29/12	7.667
4/30/11	5.856	6/30/11	4.842	8/30/11	7.781	10/30/11	5.930	12/30/11	6.075		
				8/31/11	7.812	10/31/11	6.084	12/31/11	6.092	3/1/12	7.667
5/1/11	5.824	7/1/11	4.884							3/2/12	7.667
5/2/11	5.761	7/2/11	4.922	9/1/11	7.770	11/1/11	6.823	1/1/12	6.098	3/3/12	7.668
5/3/11	5.706	7/3/11	4.858	9/2/11	7.735	11/2/11	7.137	1/2/12	6.097	3/4/12	7.667
5/4/11	5.674	7/4/11	4.721	9/3/11	7.737	11/3/11	6.461	1/3/12	6.076	3/5/12	7.667
5/5/11	5.633	7/5/11	4.603	9/4/11	7.743	11/4/11	6.258	1/4/12	6.088	3/6/12	7.666
5/6/11	5.640	7/6/11	4.578	9/5/11	7.737	11/5/11	6.235	1/5/12	6.083	3/7/12	7.666
5/7/11 5/8/11	5.598 5.546	7/7/11 7/8/11	4.553 4.570	9/6/11 9/7/11	7.723 7.722	11/6/11 11/7/11	6.205 6.219	1/6/12 1/7/12	6.089 6.102	3/8/12 3/9/12	7.666
5/9/11	5.518	7/9/11	4.570	9/7/11	7.722	11/7/11	6.276	1/8/12	6.102	3/10/12	7.666 7.666
5/10/11	5.487	7/10/11	4.659	9/9/11	7.722	11/9/11	6.272	1/9/12	6.113	3/10/12	7.666
5/11/11	5.488	7/11/11	4.711	9/10/11	7.760	11/10/11	6.228	1/10/12	6.088	3/11/12	7.665
5/12/11	5.462	7/12/11	4.748	9/11/11	7.743	11/11/11	6.211	1/11/12	6.096	3/13/12	7.005
5/13/11	5.480	7/13/11	4.870	9/12/11	7.723	11/11/11	6.198	1/11/12	6.117	3/14/12	
5/14/11	5.514	7/14/11	5.082	9/13/11	7.723	11/13/11	6.196	1/13/12	6.129	3/15/12	
5/15/11	5.474	7/15/11	5.275	9/14/11	7.756	11/14/11	6.197	1/14/12	6.134	3/16/12	
5/16/11	5.457	7/16/11	5.400	9/15/11	7.780	11/15/11	6.237	1/15/12	6.139	3/17/12	
5/17/11	5.493	7/17/11	5.431	9/16/11	7.783	11/16/11	6.244	1/16/12	6.116	3/18/12	
5/18/11	5.540	7/18/11	5.406	9/17/11	7.734	11/17/11	6.252	1/17/12	6.276	3/19/12	
5/19/11	5.524	7/19/11	5.383	9/18/11	7.721	11/18/11	6.212	1/18/12	6.318	3/20/12	
5/20/11	5.539	7/20/11	5.338	9/19/11	7.722	11/19/11	6.141	1/19/12	6.225	3/21/12	
5/21/11	5.559	7/21/11	5.312	9/20/11	7.722	11/20/11	6.134	1/20/12	6.179	3/22/12	
5/22/11	5.592	7/22/11	5.292	9/21/11	7.722	11/21/11	6.163	1/21/12	6.069	3/23/12	
5/23/11	5.570	7/23/11	5.227	9/22/11	7.721	11/22/11	6.144	1/22/12	6.036	3/24/12	
5/24/11	5.524	7/24/11	5.162	9/23/11	7.721	11/23/11	6.118	1/23/12	6.036	3/25/12	
5/25/11	5.533	7/25/11	5.135	9/24/11	7.730	11/24/11	6.135	1/24/12	6.073	3/26/12	
5/26/11	5.570	7/26/11	5.153	9/25/11	7.743	11/25/11	6.152	1/25/12	6.112	3/27/12	
5/27/11	5.576	7/27/11	5.161	9/26/11	7.725	11/26/11	6.159	1/26/12	6.136	3/28/12	
5/28/11	5.581	7/28/11	5.176	9/27/11	7.721	11/27/11	6.152	1/27/12	6.142	3/29/12	
5/29/11	5.534	7/29/11	5.171	9/28/11	7.721	11/28/11	6.155	1/28/12	6.204	3/30/12	
5/30/11	5.482	7/30/11	5.115	9/29/11	7.721	11/29/11	6.157	1/29/12	6.206	3/31/12	
5/31/11	5.499	7/31/11	5.013	9/30/11	7.725	11/30/11	6.153	1/30/12	6.160		
								1/31/12	6.205		

#### 7.3 DAILY GROUNDWATER ELEVATION AT 8C-4

4/1/11 4/2/11 4/3/11 4/4/11 4/5/11 4/6/11 4/7/11 4/8/11 4/10/11 4/10/11 4/11/11 4/13/11 4/13/11 4/15/11 4/15/11 4/15/11 4/16/11 4/17/11 4/18/11 4/20/11 4/21/11 4/21/11 4/21/11 4/25/11 4/25/11 4/26/11 4/27/11 4/29/11 4/29/11 4/30/11 5/1/11	3.267 2.904 2.790 2.708 2.619 2.558 2.516 2.503 2.463 2.482 2.496 2.524 2.589 2.653 2.664 2.625 2.573	6/1/11 6/2/11 6/3/11 6/4/11 6/5/11 6/6/11 6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/13/11 6/13/11	2.293 2.376 2.390 2.394 2.308 2.307 2.305 2.260 2.205 2.134 2.080 2.021	8/1/11 8/2/11 8/3/11 8/4/11 8/5/11 8/6/11 8/7/11 8/8/11 8/9/11 8/10/11	1.318 1.337 1.376 1.433 1.510 1.586 1.649 1.719 1.795	10/1/11 10/2/11 10/3/11 10/4/11 10/5/11 10/6/11 10/7/11 10/8/11	3.984 3.789 3.697 3.720 3.774 3.847	12/1/11 12/2/11 12/3/11 12/4/11 12/5/11	2.939 2.950 2.929 2.956	2/1/12 2/2/12 2/3/12 2/4/12	3.162 3.369 3.510 3.549
4/3/11 4/4/11 4/5/11 4/6/11 4/7/11 4/8/11 4/10/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/15/11 4/16/11 4/17/11 4/18/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/29/11 4/30/11 5/1/11	2.790 2.708 2.619 2.558 2.516 2.503 2.463 2.482 2.496 2.524 2.524 2.653 2.664 2.625	6/3/11 6/4/11 6/5/11 6/6/11 6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.390 2.394 2.308 2.307 2.305 2.260 2.205 2.134 2.080 2.021	8/3/11 8/4/11 8/5/11 8/6/11 8/7/11 8/8/11 8/9/11	1.376 1.433 1.510 1.586 1.649 1.719	10/3/11 10/4/11 10/5/11 10/6/11 10/7/11	3.697 3.720 3.774	12/3/11 12/4/11	2.929	2/3/12	3.510
4/4/11 4/5/11 4/6/11 4/7/11 4/8/11 4/10/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/16/11 4/19/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/29/11 4/29/11 4/30/11	2.708 2.619 2.558 2.516 2.503 2.463 2.482 2.496 2.524 2.524 2.589 2.653 2.664 2.625	6/4/11 6/5/11 6/6/11 6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.394 2.308 2.307 2.305 2.260 2.205 2.134 2.080 2.021	8/4/11 8/5/11 8/6/11 8/7/11 8/8/11 8/9/11	1.433 1.510 1.586 1.649 1.719	10/4/11 10/5/11 10/6/11 10/7/11	3.720 3.774	12/4/11			
4/5/11 4/6/11 4/7/11 4/8/11 4/9/11 4/10/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/17/11 4/18/11 4/19/11 4/20/11 4/21/11 4/23/11 4/24/11 4/25/11 4/26/11 4/26/11 4/29/11 4/29/11 4/30/11 5/1/11	2.619 2.558 2.516 2.503 2.463 2.482 2.496 2.524 2.524 2.653 2.664 2.625	6/5/11 6/6/11 6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.308 2.307 2.305 2.260 2.205 2.134 2.080 2.021	8/5/11 8/6/11 8/7/11 8/8/11 8/9/11 8/10/11	1.510 1.586 1.649 1.719	10/5/11 10/6/11 10/7/11	3.774		2.956	2/4/12	3 5/10
4/6/11 4/7/11 4/8/11 4/9/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/17/11 4/18/11 4/20/11 4/20/11 4/21/11 4/23/11 4/24/11 4/25/11 4/26/11 4/26/11 4/29/11 4/29/11 4/29/11 4/29/11 4/30/11	2.558 2.516 2.503 2.463 2.482 2.496 2.524 2.589 2.653 2.664 2.625	6/6/11 6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.307 2.305 2.260 2.205 2.134 2.080 2.021	8/6/11 8/7/11 8/8/11 8/9/11 8/10/11	1.586 1.649 1.719	10/6/11 10/7/11		12/5/11			
4/7/11 4/8/11 4/9/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/17/11 4/18/11 4/19/11 4/20/11 4/21/11 4/23/11 4/24/11 4/25/11 4/26/11 4/26/11 4/28/11 4/29/11 4/29/11 4/29/11 4/30/11	2.516 2.503 2.463 2.482 2.496 2.524 2.589 2.653 2.664 2.625	6/7/11 6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.305 2.260 2.205 2.134 2.080 2.021	8/7/11 8/8/11 8/9/11 8/10/11	1.649 1.719	10/7/11			2.905	2/5/12	3.606
4/8/11 4/9/11 4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/16/11 4/17/11 4/18/11 4/18/11 4/18/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/29/11 4/30/11 5/1/11	2.503 2.463 2.482 2.496 2.524 2.589 2.653 2.664 2.625	6/8/11 6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.260 2.205 2.134 2.080 2.021	8/8/11 8/9/11 8/10/11	1.719			12/6/11	2.931	2/6/12	3.646
4/9/11 4/10/11 4/10/11 4/12/11 4/13/11 4/14/11 4/15/11 4/15/11 4/16/11 4/17/11 4/19/11 4/20/11 4/22/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/29/11 4/30/11	2.463 2.482 2.496 2.524 2.589 2.653 2.664 2.625	6/9/11 6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.205 2.134 2.080 2.021	8/9/11 8/10/11			3.855 3.690	12/7/11 12/8/11	2.902 2.896	2/7/12 2/8/12	3.651 3.685
4/10/11 4/11/11 4/12/11 4/13/11 4/14/11 4/15/11 4/16/11 4/17/11 4/18/11 4/19/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/29/11 4/29/11 4/30/11	2.482 2.496 2.524 2.589 2.653 2.664 2.625	6/10/11 6/11/11 6/12/11 6/13/11 6/14/11	2.134 2.080 2.021	8/10/11	1.775	10/9/11	3.472	12/9/11	2.886	2/9/12	3.709
4/11/11 4/12/11 4/13/11 4/13/11 4/15/11 4/15/11 4/16/11 4/16/11 4/19/11 4/20/11 4/20/11 4/21/11 4/23/11 4/23/11 4/23/11 4/25/11 4/27/11 4/28/11 4/29/11 4/29/11 4/30/11 5/1/11	2.496 2.524 2.589 2.653 2.664 2.625	6/11/11 6/12/11 6/13/11 6/14/11	2.080 2.021		1.839	10/10/11	3.301	12/10/11	2.889	2/10/12	3.732
4/12/11 4/13/11 4/14/11 4/15/11 4/15/11 4/16/11 4/17/11 4/19/11 4/20/11 4/20/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.524 2.589 2.653 2.664 2.625	6/12/11 6/13/11 6/14/11	2.021		1.887	10/11/11	3.109	12/11/11	2.887	2/11/12	3.762
4/13/11 4/14/11 4/15/11 4/16/11 4/16/11 4/18/11 4/19/11 4/20/11 4/20/11 4/21/11 4/23/11 4/24/11 4/25/11 4/25/11 4/26/11 4/27/11 4/29/11 4/30/11 5/1/11	2.589 2.653 2.664 2.625	6/13/11 6/14/11		8/12/11	1.956	10/12/11	2.661	12/12/11	2.898	2/12/12	3.780
4/15/11 4/16/11 4/17/11 4/18/11 4/18/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.664 2.625		1.949	8/13/11	2.020	10/13/11	2.271	12/13/11	2.885	2/13/12	3.801
4/16/11 4/17/11 4/18/11 4/19/11 4/20/11 4/22/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.625		1.824	8/14/11	2.106	10/14/11	2.034	12/14/11	2.910	2/14/12	3.814
4/17/11 4/18/11 4/19/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11		6/15/11	1.688	8/15/11	2.151	10/15/11	1.867	12/15/11	2.890	2/15/12	3.837
4/18/11 4/19/11 4/20/11 4/21/11 4/22/11 4/23/11 4/23/11 4/25/11 4/25/11 4/25/11 4/26/11 4/27/11 4/29/11 4/30/11	2.573	6/16/11	1.568	8/16/11	2.254	10/16/11	1.697	12/16/11	2.898	2/16/12	3.838
4/19/11 4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/30/11 5/1/11		6/17/11	1.485	8/17/11	2.324	10/17/11	1.544	12/17/11	2.907	2/17/12	3.832
4/20/11 4/21/11 4/22/11 4/23/11 4/24/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/30/11 5/1/11	2.497	6/18/11	1.465	8/18/11	2.370	10/18/11	1.460	12/18/11	2.908	2/18/12	3.757
4/21/11 4/22/11 4/23/11 4/24/11 4/24/11 4/26/11 4/26/11 4/27/11 4/28/11 4/30/11 5/1/11	2.520	6/19/11	1.448	8/19/11	2.396	10/19/11	1.432	12/19/11	2.892	2/19/12	3.788
4/22/11 4/23/11 4/24/11 4/25/11 4/25/11 4/26/11 4/27/11 4/29/11 4/30/11 5/1/11	2.510	6/20/11	1.426	8/20/11	2.430	10/20/11	1.411	12/20/11	2.892	2/20/12	3.809
4/23/11 4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.522	6/21/11	1.438	8/21/11	2.511	10/21/11	1.392	12/21/11	2.888	2/21/12	3.828
4/24/11 4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.579	6/22/11	1.451	8/22/11	2.579	10/22/11	1.387	12/22/11	2.940	2/22/12	3.841
4/25/11 4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.571 2.608	6/23/11 6/24/11	1.437 1.426	8/23/11 8/24/11	2.651 2.729	10/23/11 10/24/11	1.385 1.436	12/23/11 12/24/11	2.949 2.945	2/23/12 2/24/12	3.847 3.846
4/26/11 4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.648	6/25/11	1.426	8/25/11	2.767	10/24/11	1.595	12/24/11	2.943	2/24/12	3.845
4/27/11 4/28/11 4/29/11 4/30/11 5/1/11	2.703	6/26/11	1.472	8/26/11	2.803	10/25/11	1.755	12/26/11	2.932	2/25/12	3.866
4/28/11 4/29/11 4/30/11 5/1/11	2.715	6/27/11	1.505	8/27/11	2.822	10/20/11	1.947	12/27/11	2.933	2/27/12	3.860
4/29/11 4/30/11 5/1/11	2.664	6/28/11	1.527	8/28/11	2.848	10/28/11	2.104	12/28/11	2.927	2/28/12	3.852
4/30/11 5/1/11	2.669	6/29/11	1.502	8/29/11	2.871	10/29/11	2.332	12/29/11	2.910	2/29/12	3.830
5/1/11	2.664	6/30/11	1.507	8/30/11	2.905	10/30/11	2.458	12/30/11	2.911		
				8/31/11	2.959	10/31/11	2.574	12/31/11	2.922	3/1/12	3.863
	2.601	7/1/11	1.548							3/2/12	3.874
5/2/11	2.515	7/2/11	1.578	9/1/11	3.000	11/1/11	2.767	1/1/12	2.918	3/3/12	3.870
5/3/11	2.462	7/3/11	1.542	9/2/11	3.038	11/2/11	2.917	1/2/12	2.917	3/4/12	3.863
5/4/11	2.420	7/4/11	1.433	9/3/11	3.127	11/3/11	2.846	1/3/12	2.910	3/5/12	3.895
5/5/11	2.383	7/5/11	1.326	9/4/11	3.114	11/4/11	2.809	1/4/12	2.920	3/6/12	3.919
5/6/11	2.365	7/6/11	1.182	9/5/11	3.156	11/5/11	2.815	1/5/12	2.914	3/7/12	3.930
5/7/11	2.304	7/7/11	1.112	9/6/11	3.215	11/6/11	2.822	1/6/12	2.907	3/8/12	3.862
5/8/11	2.241	7/8/11	1.079	9/7/11	3.305	11/7/11	2.844	1/7/12	2.907	3/9/12	3.792
5/9/11 5/10/11	2.225 2.195	7/9/11 7/10/11	1.070 1.086	9/8/11 9/9/11	3.362 3.403	11/8/11 11/9/11	2.856 2.867	1/8/12 1/9/12	2.960	3/10/12 3/11/12	3.777
5/11/11	2.193	7/11/11	1.106	9/10/11	3.503	11/9/11	2.871	1/9/12	2.858 2.856	3/11/12	3.668 3.591
5/11/11	2.241	7/12/11	1.128	9/10/11	3.580	11/10/11	2.869	1/10/12	2.872	3/12/12	3.391
5/13/11	2.247	7/13/11	1.207	9/12/11	3.569	11/11/11	2.857	1/11/12	2.903	3/13/12	
5/14/11	2.234	7/14/11	1.361	9/13/11	3.587	11/13/11	2.862	1/13/12	2.925	3/15/12	
5/15/11	2.191	7/15/11	1.508	9/14/11	3.612	11/14/11	2.860	1/14/12	2.904	3/16/12	
5/16/11	2.170	7/16/11	1.617	9/15/11	3.665	11/15/11	2.868	1/15/12	2.889	3/17/12	
5/17/11	2.177	7/17/11	1.648	9/16/11	3.716	11/16/11	2.882	1/16/12	2.927	3/18/12	
5/18/11	2.214	7/18/11	1.627	9/17/11	3.773	11/17/11	2.888	1/17/12	2.968	3/19/12	
5/19/11	2.239	7/19/11	1.606	9/18/11	3.817	11/18/11	2.881	1/18/12	2.937	3/20/12	
5/20/11	2.261	7/20/11	1.576	9/19/11	3.848	11/19/11	2.877	1/19/12	2.918	3/21/12	
5/21/11	2.280	7/21/11	1.553	9/20/11	3.879	11/20/11	2.891	1/20/12	2.916	3/22/12	
5/22/11	2.300	7/22/11	1.532	9/21/11	3.914	11/21/11	2.891	1/21/12	2.742	3/23/12	
5/23/11	2.300	7/23/11	1.500	9/22/11	3.898	11/22/11	2.877	1/22/12	2.852	3/24/12	
5/24/11	2.304	7/24/11	1.460	9/23/11	3.890	11/23/11	2.896	1/23/12	2.802	3/25/12	
5/25/11	2.280	7/25/11	1.443	9/24/11	3.883	11/24/11	2.912	1/24/12	2.846	3/26/12	
5/26/11	2.326	7/26/11	1.428	9/25/11	3.927	11/25/11	2.920	1/25/12	2.884	3/27/12	
5/27/11	2.316	7/27/11	1.436	9/26/11	3.972	11/26/11	2.922	1/26/12	2.905	3/28/12	
5/28/11	2.278	7/28/11	1.463	9/27/11	3.997	11/27/11	2.915	1/27/12	2.917	3/29/12	
5/29/11	2.236 2.229	7/29/11	1.426	9/28/11	3.930	11/28/11	2.919	1/28/12	2.960	3/30/12	
5/30/11 5/31/11	/ / /4	7/30/11 7/31/11	1.404	9/29/11	3.946	11/29/11	2.921 2.915	1/29/12 1/30/12	2.942 2.921	3/31/12	
21/11	2.225		1.343	9/30/11	3.973	11/30/11					

## 7.4 DAILY GROUNDWATER ELEVATION AT 8C-5

Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
4/1/11	1.932	6/1/11	1.506	8/1/11	0.616	10/1/11	1.935	12/1/11	1.619	2/1/12	1.796
4/2/11	1.786	6/2/11	1.549	8/2/11	0.633	10/2/11	1.837	12/2/11	1.628	2/2/12	1.878
4/3/11	1.725	6/3/11	1.552	8/3/11	0.658	10/3/11	1.794	12/3/11	1.627	2/3/12	1.888
4/4/11	1.692	6/4/11	1.553	8/4/11	0.691	10/4/11	1.809	12/4/11	1.642	2/4/12	1.890
4/5/11	1.653	6/5/11	1.505	8/5/11	0.735	10/5/11	1.826	12/5/11	1.601	2/5/12	1.945
4/6/11	1.626	6/6/11	1.507	8/6/11	0.778	10/6/11	1.859	12/6/11	1.619	2/6/12	1.942
4/7/11	1.606	6/7/11	1.503	8/7/11	0.810	10/7/11	1.849	12/7/11	1.597	2/7/12	1.971
4/8/11	1.608	6/8/11	1.485	8/8/11	0.844	10/8/11	1.736	12/8/11	1.587	2/8/12	1.982
4/9/11	1.593	6/9/11	1.459	8/9/11	0.876	10/9/11	1.584	12/9/11	1.576	2/9/12	1.988
4/10/11	1.604	6/10/11	1.417	8/10/11	0.896	10/10/11	1.483	12/10/11	1.582	2/10/12	1.991
4/11/11	1.603	6/11/11	1.376	8/11/11	0.920	10/11/11	1.364	12/11/11	1.582	2/11/12	1.999
4/12/11	1.614	6/12/11	1.345	8/12/11	0.953	10/12/11	1.155	12/12/11	1.586	2/12/12	2.000
4/13/11	1.640	6/13/11	1.302	8/13/11	0.982	10/13/11	1.026	12/13/11	1.574	2/13/12	2.007
4/14/11	1.679	6/14/11	1.209	8/14/11	1.027	10/14/11	0.936	12/14/11	1.588	2/14/12	2.012
4/15/11	1.691	6/15/11	1.106	8/15/11	1.044	10/15/11	0.858	12/15/11	1.580	2/15/12	2.019
4/16/11	1.668	6/16/11	1.046	8/16/11	1.095	10/16/11	0.779	12/16/11	1.579	2/16/12	2.018
4/17/11	1.641	6/17/11	0.975	8/17/11	1.122	10/17/11	0.723	12/17/11	1.585	2/17/12	2.011
4/18/11	1.604	6/18/11	0.959	8/18/11	1.135	10/18/11	0.703	12/18/11	1.588	2/18/12	2.007
4/19/11	1.609	6/19/11	0.946	8/19/11	1.143	10/19/11	0.696	12/19/11	1.580	2/19/12	2.020
4/20/11	1.618	6/20/11	0.909	8/20/11	1.169	10/20/11	0.694	12/20/11	1.579	2/20/12	2.025
4/21/11	1.631	6/21/11	0.917	8/21/11	1.223	10/21/11	0.688	12/21/11	1.581	2/21/12	2.025
4/22/11	1.657	6/22/11	0.917	8/22/11	1.255	10/22/11	0.687	12/22/11	1.611	2/22/12	2.022
4/23/11	1.659	6/23/11	0.883	8/23/11	1.284	10/23/11	0.697	12/23/11	1.576	2/23/12	2.023
4/24/11	1.679	6/24/11	0.879	8/24/11	1.315	10/24/11	0.740	12/24/11	1.633	2/24/12	2.022
4/25/11	1.697	6/25/11	0.889	8/25/11	1.322	10/25/11	0.822	12/25/11	1.627	2/25/12	2.020
4/26/11	1.727	6/26/11	0.906	8/26/11	1.339	10/26/11	0.912	12/26/11	1.615	2/26/12	2.026
4/27/11	1.733	6/27/11	0.915	8/27/11	1.352	10/27/11	1.022	12/27/11	1.609	2/27/12	2.019
4/28/11	1.705	6/28/11	0.927	8/28/11	1.358	10/28/11	1.113	12/28/11	1.599	2/28/12	2.028
4/29/11	1.709	6/29/11	0.914	8/29/11	1.370	10/29/11	1.262	12/29/11	1.589	2/29/12	2.039
4/30/11	1.706	6/30/11	0.915	8/30/11	1.394	10/30/11	1.351	12/30/11	1.592 1.600	2/1/12	2.040
5/1/11	1.676	7/1/11	0.026	8/31/11	1.427	10/31/11	1.440	12/31/11	1.000	3/1/12	2.048
5/1/11 5/2/11	1.676 1.641	7/1/11 7/2/11	0.936 0.955	9/1/11	1.447	11/1/11	1.536	1/1/12	1.605	3/2/12 3/3/12	2.046 2.046
5/3/11	1.615	7/3/11	0.933	9/1/11	1.447	11/1/11	1.590	1/1/12	1.608	3/4/12	2.046
5/4/11	1.589	7/4/11	0.934	9/2/11	1.537	11/2/11	1.585	1/2/12		3/4/12	2.043
5/5/11	1.569	7/5/11	0.882	9/3/11	1.543	11/4/11	1.576	1/3/12	1.607 1.615	3/6/12	2.048
5/6/11	1.560	7/6/11	0.695	9/5/11	1.543	11/4/11	1.578	1/5/12	1.616	3/7/12	2.033
5/7/11	1.523	7/7/11	0.619	9/6/11	1.604	11/6/11	1.578	1/6/12	1.616	3/8/12	2.017
5/8/11	1.493	7/8/11	0.547	9/7/11	1.664	11/7/11	1.588	1/0/12	1.619	3/9/12	2.023
5/9/11	1.482	7/9/11	0.518	9/8/11	1.695	11/8/11	1.584	1/8/12	1.653	3/10/12	2.013
5/10/11	1.476	7/10/11	0.518	9/9/11	1.724	11/9/11	1.588	1/9/12	1.597	3/11/12	1.982
5/11/11	1.488	7/11/11	0.321	9/10/11	1.786	11/10/11	1.596	1/10/12	1.590	3/11/12	1.974
5/12/11	1.496	7/12/11	0.492	9/11/11	1.818	11/11/11	1.590	1/11/12	1.594	3/13/12	1.574
5/13/11	1.496	7/13/11	0.432	9/11/11	1.795	11/11/11	1.580	1/11/12	1.615	3/13/12	
5/14/11	1.486	7/14/11	0.632	9/13/11	1.802	11/12/11	1.581	1/12/12	1.630	3/15/12	
5/15/11	1.469	7/15/11	0.720	9/14/11	1.815	11/13/11	1.600	1/13/12	1.619	3/16/12	
5/16/11	1.465	7/16/11	0.720	9/15/11	1.836	11/15/11	1.626	1/15/12	1.606	3/17/12	
5/17/11	1.474	7/17/11	0.782	9/16/11	1.859	11/16/11	1.636	1/16/12	1.628	3/18/12	
5/18/11	1.491	7/18/11	0.763	9/17/11	1.884	11/17/11	1.640	1/17/12	1.607	3/19/12	
5/19/11	1.503	7/19/11	0.750	9/18/11	1.900	11/17/11	1.625	1/17/12	1.615	3/20/12	
5/20/11	1.516	7/20/11	0.732	9/19/11	1.912	11/19/11	1.607	1/19/12	1.594	3/21/12	
5/21/11	1.519	7/21/11	0.723	9/20/11	1.924	11/20/11	1.611	1/20/12	1.588	3/22/12	
5/22/11	1.527	7/22/11	0.708	9/21/11	1.934	11/21/11	1.603	1/21/12	1.463	3/23/12	
5/23/11	1.513	7/23/11	0.693	9/22/11	1.933	11/22/11	1.590	1/22/12	1.543	3/24/12	
5/24/11	1.505	7/24/11	0.677	9/23/11	1.919	11/23/11	1.599	1/23/12	1.525	3/25/12	
5/25/11	1.494	7/25/11	0.673	9/24/11	1.915	11/24/11	1.601	1/24/12	1.547	3/26/12	
5/26/11	1.523	7/26/11	0.672	9/25/11	1.932	11/25/11	1.605	1/25/12	1.570	3/27/12	
5/27/11	1.515	7/27/11	0.679	9/26/11	1.957	11/26/11	1.605	1/26/12	1.583	3/28/12	
5/28/11	1.499	7/28/11	0.690	9/27/11	1.962	11/27/11	1.601	1/20/12	1.594	3/29/12	
5/29/11	1.478	7/29/11	0.698	9/28/11	1.915	11/28/11	1.602	1/27/12	1.606	3/30/12	
5/30/11	1.478	7/30/11	0.667	9/29/11	1.926	11/29/11	1.603	1/29/12	1.602	3/31/12	
5/31/11	1.478	7/31/11	0.631	9/30/11	1.920	11/30/11	1.603	1/30/12	1.603	5151112	
	1100	1131111	0.051	7130111	1.731	11/30/11	1.505	1/30/12	1.005		

#### 7.5 DAILY GROUNDWATER ELEVATION AT 8C-6

Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
4/1/11	2.335	6/1/11	1.930	8/1/11	1.493	10/1/11	6.123	12/1/11	3.078	2/1/12	4.371
4/2/11	2.138	6/2/11	2.090	8/2/11	1.506	10/2/11	6.079	12/2/11	3.250	2/2/12	4.902
4/3/11	2.055	6/3/11	2.143	8/3/11	1.554	10/3/11	6.030	12/3/11	3.134	2/3/12	5.238
4/4/11	1.979	6/4/11	2.170	8/4/11	1.663	10/4/11	6.007	12/4/11	3.234	2/4/12	5.450
4/5/11	1.884	6/5/11	2.061	8/5/11	1.807	10/5/11	6.004	12/5/11	3.041	2/5/12	5.610
4/6/11	1.832	6/6/11	2.049	8/6/11	1.967	10/6/11	6.010	12/6/11	3.072	2/6/12	5.726
4/7/11	1.809	6/7/11	2.059	8/7/11	2.084	10/7/11	6.034	12/7/11	3.013	2/7/12	5.831
4/8/11	1.805	6/8/11	1.959	8/8/11	2.202	10/8/11	5.995	12/8/11	2.928	2/8/12	5.926
4/9/11	1.769	6/9/11	1.867 1.699	8/9/11	2.341 2.417	10/9/11 10/10/11	5.922	12/9/11 12/10/11	2.850	2/9/12	5.996
4/10/11 4/11/11	1.784 1.794	6/10/11 6/11/11	1.554	8/10/11 8/11/11	2.417	10/10/11	5.855 5.799	12/10/11	2.839 2.852	2/10/12 2/11/12	6.044 6.081
4/11/11	1.794	6/11/11	1.354	8/11/11	2.638	10/11/11	4.579	12/11/11	2.852	2/11/12	6.114
4/13/11	1.870	6/13/11	1.382	8/13/11	2.768	10/12/11	2.416	12/12/11	2.805	2/12/12	6.138
4/14/11	1.935	6/14/11	1.279	8/14/11	2.929	10/14/11	2.036	12/14/11	2.840	2/14/12	6.159
4/15/11	1.945	6/15/11	1.112	8/15/11	3.010	10/15/11	1.813	12/15/11	2.859	2/15/12	6.177
4/16/11	1.913	6/16/11	0.963	8/16/11	3.213	10/16/11	1.593	12/16/11	2.842	2/16/12	6.198
4/17/11	1.875	6/17/11	0.896	8/17/11	3.374	10/17/11	1.452	12/17/11	2.860	2/17/12	6.189
4/18/11	1.816	6/18/11	0.863	8/18/11	3.505	10/18/11	1.392	12/18/11	2.881	2/18/12	6.205
4/19/11	1.850	6/19/11	0.838	8/19/11	3.586	10/19/11	1.384	12/19/11	2.869	2/19/12	6.221
4/20/11	1.853	6/20/11	0.811	8/20/11	3.688	10/20/11	1.375	12/20/11	2.859	2/20/12	6.231
4/21/11	1.877	6/21/11	0.852	8/21/11	4.425	10/21/11	1.372	12/21/11	2.877	2/21/12	6.240
4/22/11	1.937	6/22/11	0.879	8/22/11	4.792	10/22/11	1.365	12/22/11	3.205	2/22/12	6.248
4/23/11	1.941	6/23/11	0.860	8/23/11	5.008	10/23/11	1.366	12/23/11	3.666	2/23/12	6.252
4/24/11	1.979	6/24/11	0.863	8/24/11	5.159	10/24/11	1.449	12/24/11	3.550	2/24/12	6.258
4/25/11	2.018	6/25/11	0.883	8/25/11	5.264	10/25/11	1.668	12/25/11	3.308	2/25/12	6.258
4/26/11	2.084	6/26/11	0.919	8/26/11	5.339	10/26/11	1.903	12/26/11	3.081	2/26/12	6.237
4/27/11	2.110	6/27/11	0.976	8/27/11	5.393	10/27/11	2.197	12/27/11	2.954	2/27/12	6.253
4/28/11	2.075	6/28/11	1.022	8/28/11	5.434	10/28/11	2.515	12/28/11	2.858	2/28/12	6.255
4/29/11	2.102	6/29/11	0.964	8/29/11	5.463	10/29/11	3.858	12/29/11	2.827	2/29/12	6.258
4/30/11	2.118	6/30/11	0.954	8/30/11	5.492	10/30/11	2.934	12/30/11	2.842		
				8/31/11	5.522	10/31/11	3.532	12/31/11	2.882	3/1/12	6.273
5/1/11	2.073	7/1/11	1.014							3/2/12	6.282
5/2/11	2.007	7/2/11	1.057	9/1/11	5.550	11/1/11	4.484	1/1/12	2.936	3/3/12	6.290
5/3/11	1.950	7/3/11	0.957	9/2/11	5.576	11/2/11	4.945	1/2/12	2.935	3/4/12	6.288
5/4/11	1.879	7/4/11	0.825	9/3/11	5.612	11/3/11	4.603	1/3/12	2.953	3/5/12	6.291
5/5/11	1.791	7/5/11	0.752	9/4/11	5.641	11/4/11	4.323	1/4/12	2.994	3/6/12	6.291
5/6/11	1.754	7/6/11	0.749	9/5/11	5.665	11/5/11	4.104	1/5/12	3.002	3/7/12	6.247
5/7/11	1.664	7/7/11	0.765	9/6/11	5.689	11/6/11	4.126	1/6/12	3.014	3/8/12	6.255
5/8/11	1.582	7/8/11	0.776	9/7/11	5.726	11/7/11	4.126	1/7/12	3.014	3/9/12	6.271
5/9/11	1.555	7/9/11	0.817	9/8/11	5.764	11/8/11	4.171	1/8/12	3.286	3/10/12	6.272
5/10/11	1.525	7/10/11	0.875	9/9/11	5.791	11/9/11	4.149	1/9/12	3.114	3/11/12	6.243
5/11/11	1.549	7/11/11	0.946	9/10/11	5.824	11/10/11	4.007	1/10/12	2.978	3/12/12	6.206
5/12/11	1.582	7/12/11	0.990	9/11/11	5.861	11/11/11	4.071	1/11/12	2.961	3/13/12	
5/13/11	1.603	7/13/11	1.207	9/12/11	5.876	11/12/11	3.940	1/12/12	3.067	3/14/12	
5/14/11 5/15/11	1.587 1.543	7/14/11 7/15/11	1.511 1.764	9/13/11 9/14/11	5.894 5.910	11/13/11	3.975 4.027	1/13/12 1/14/12	3.162	3/15/12 3/16/12	
5/15/11 5/16/11	1.543	7/15/11	1.764	9/14/11	5.910	11/14/11 11/15/11			3.113 3.030	3/16/12	
5/16/11	1.521	7/16/11	2.019	9/15/11	5.930 5.954		4.186 4.352	1/15/12 1/16/12	3.030	3/1//12	
5/17/11	1.554	7/17/11	1.988	9/16/11	5.954 5.980	11/16/11 11/17/11	4.352 4.424	1/16/12	3.096	3/18/12	
5/18/11	1.664	7/18/11	1.988	9/17/11	6.003	11/17/11	4.424	1/17/12	3.372	3/19/12	
5/20/11	1.712	7/19/11	1.962	9/19/11	6.024	11/19/11	3.196	1/19/12	3.059	3/20/12	
5/21/11	1.712	7/20/11	1.883	9/19/11	6.040	11/19/11	2.991	1/19/12	2.980	3/21/12	
5/22/11	1.793	7/22/11	1.851	9/20/11	6.056	11/20/11	2.999	1/20/12	2.752	3/22/12	
5/23/11	1.812	7/23/11	1.770	9/22/11	6.074	11/22/11	2.905	1/22/12	2.772	3/24/12	
5/24/11	1.844	7/24/11	1.685	9/23/11	6.086	11/23/11	2.814	1/23/12	2.746	3/25/12	
5/25/11	1.825	7/25/11	1.653	9/24/11	6.080	11/24/11	2.845	1/24/12	2.818	3/26/12	
5/26/11	1.901	7/26/11	1.631	9/25/11	6.090	11/25/11	2.885	1/25/12	2.914	3/27/12	
5/27/11	1.905	7/27/11	1.650	9/26/11	6.098	11/26/11	2.915	1/26/12	2.996	3/28/12	
5/28/11	1.851	7/28/11	1.698	9/27/11	6.112	11/27/11	2.927	1/27/12	3.048	3/29/12	
5/29/11	1.786	7/29/11	1.681	9/28/11	6.106	11/28/11	2.974	1/28/12	3.186	3/30/12	
5/30/11	1.789	7/30/11	1.655	9/29/11	6.106	11/29/11	2.995	1/29/12	3.205	3/31/12	
5/31/11	1.794	7/31/11	1.557	9/30/11	6.113	11/30/11	3.021	1/30/12	3.139		
					-			1/31/12	3.310		

#### 7.6 DAILY GROUNDWATER ELEVATION AT 8C-7

Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
4/1/11	5.837	6/1/11	4.876	8/1/11	4.403	10/1/11	8.156	12/1/11	6.919	2/1/12	7.170
4/2/11	5.542	6/2/11	5.090	8/2/11	4.423	10/2/11	8.123	12/2/11	7.062	2/2/12	7.467
4/3/11	5.426	6/3/11	5.132	8/3/11	4.486	10/3/11	8.087	12/3/11	7.055	2/3/12	7.622
4/4/11	5.333	6/4/11	5.154	8/4/11	4.629	10/4/11	8.073	12/4/11	7.151	2/4/12	7.732
4/5/11	5.227	6/5/11	4.979	8/5/11	4.819	10/5/11	8.066	12/5/11	7.081	2/5/12	7.822
4/6/11	5.159	6/6/11	4.965	8/6/11	4.966	10/6/11	8.067	12/6/11	7.097	2/6/12	7.881
4/7/11	5.128	6/7/11	4.975	8/7/11	5.053	10/7/11	8.082	12/7/11	7.052	2/7/12	7.968
4/8/11 4/9/11	5.116 5.079	6/8/11 6/9/11	4.809	8/8/11 8/9/11	5.140	10/8/11 10/9/11	8.050 7.998	12/8/11 12/9/11	7.000	2/8/12 2/9/12	8.036 8.083
4/9/11	5.083	6/10/11	4.679 4.504	8/10/11	5.252 5.323	10/9/11	7.953	12/9/11	6.900 6.871	2/9/12	8.116
4/11/11	5.081	6/11/11	4.387	8/11/11	5.389	10/11/11	7.910	12/10/11	6.809	2/11/12	8.141
4/12/11	5.088	6/12/11	4.317	8/12/11	5.487	10/12/11	7.304	12/11/11	6.774	2/12/12	8.163
4/13/11	5.136	6/13/11	4.285	8/13/11	5.579	10/13/11	5.885	12/13/11	6.710	2/13/12	8.179
4/14/11	5.194	6/14/11	4.202	8/14/11	5.705	10/14/11	5.415	12/14/11	6.790	2/14/12	8.194
4/15/11	5.197	6/15/11	4.120	8/15/11	5.766	10/15/11	5.174	12/15/11	6.754	2/15/12	8.207
4/16/11	5.164	6/16/11	4.044	8/16/11	5.932	10/16/11	4.981	12/16/11	6.773	2/16/12	8.222
4/17/11	5.125	6/17/11	3.994	8/17/11	6.079	10/17/11	4.771	12/17/11	6.795	2/17/12	8.210
4/18/11	5.067	6/18/11	3.970	8/18/11	6.227	10/18/11	4.573	12/18/11	6.780	2/18/12	8.226
4/19/11	5.075	6/19/11	3.952	8/19/11	6.344	10/19/11	4.525	12/19/11	6.782	2/19/12	8.240
4/20/11	5.068	6/20/11	3.932	8/20/11	6.426	10/20/11	4.509	12/20/11	6.788	2/20/12	8.247
4/21/11	5.087	6/21/11	3.951	8/21/11	6.865	10/21/11	4.480	12/21/11	6.740	2/21/12	8.255
4/22/11	5.138	6/22/11	3.974	8/22/11	7.116	10/22/11	4.465	12/22/11	6.927	2/22/12	8.258
4/23/11	5.127	6/23/11	3.957	8/23/11	7.277	10/23/11	4.467	12/23/11	7.027	2/23/12	8.262
4/24/11	5.163	6/24/11	3.958	8/24/11	7.401	10/24/11	4.575	12/24/11	6.995	2/24/12	8.264
4/25/11	5.196	6/25/11	3.973	8/25/11	7.489	10/25/11	4.880	12/25/11	6.872	2/25/12	8.264
4/26/11	5.251	6/26/11	4.006	8/26/11	7.553	10/26/11	5.080	12/26/11	6.786	2/26/12	8.243
4/27/11 4/28/11	5.273 5.237	6/27/11 6/28/11	4.055 4.087	8/27/11 8/28/11	7.601 7.638	10/27/11 10/28/11	5.382 5.699	12/27/11 12/28/11	6.803 6.833	2/27/12 2/28/12	8.256 8.258
4/28/11	5.252	6/29/11	4.087	8/29/11	7.666	10/28/11	6.500	12/28/11	6.898	2/29/12	8.258
4/30/11	5.264	6/30/11	4.043	8/30/11	7.693	10/29/11	6.127	12/29/11	6.901	2/23/12	8.201
1/30/11	0.20.	0/30/11		8/31/11	7.718	10/31/11	6.722	12/31/11	6.934	3/1/12	8.271
5/1/11	5.223	7/1/11	4.089							3/2/12	8.277
5/2/11	5.154	7/2/11	4.131	9/1/11	7.743	11/1/11	7.045	1/1/12	6.961	3/3/12	8.281
5/3/11	5.100	7/3/11	4.053	9/2/11	7.765	11/2/11	7.294	1/2/12	6.933	3/4/12	8.281
5/4/11	5.059	7/4/11	3.955	9/3/11	7.795	11/3/11	7.385	1/3/12	6.946	3/5/12	8.281
5/5/11	5.016	7/5/11	3.902	9/4/11	7.818	11/4/11	7.362	1/4/12	6.960	3/6/12	8.278
5/6/11	4.988	7/6/11	3.905	9/5/11	7.839	11/5/11	7.365	1/5/12	6.961	3/7/12	8.226
5/7/11	4.891	7/7/11	3.912	9/6/11	7.857	11/6/11	7.368	1/6/12	6.950	3/8/12	8.244
5/8/11	4.765	7/8/11	3.919	9/7/11	7.887	11/7/11	7.400	1/7/12	6.952	3/9/12	8.261
5/9/11	4.701	7/9/11	3.945	9/8/11	7.917	11/8/11	7.415	1/8/12	7.081	3/10/12	8.264
5/10/11	4.632	7/10/11	3.993	9/9/11	7.934	11/9/11	7.396	1/9/12	6.889	3/11/12	8.249
5/11/11	4.682	7/11/11	4.052	9/10/11	7.960	11/10/11	7.424	1/10/12	6.822	3/12/12	8.235
5/12/11	4.745	7/12/11	4.106	9/11/11	7.986	11/11/11	7.450	1/11/12	6.835	3/13/12	
5/13/11	4.768	7/13/11 7/14/11	4.271	9/12/11 9/13/11	7.997	11/12/11 11/13/11	7.444	1/12/12	6.904	3/14/12	
5/14/11 5/15/11	4.713 4.606	7/14/11	4.578 4.844	9/13/11	8.010 8.021	11/13/11	7.450 7.478	1/13/12 1/14/12	6.931 6.890	3/15/12 3/16/12	
5/16/11	4.554	7/16/11	4.982	9/14/11	8.035	11/14/11	7.524	1/14/12	6.774	3/10/12	
5/17/11	4.594	7/17/11	5.035	9/15/11	8.052	11/15/11	7.557	1/15/12	6.904	3/17/12	
5/18/11	4.696	7/18/11	5.024	9/10/11	8.069	11/17/11	7.587	1/17/12	7.013	3/19/12	
5/19/11	4.765	7/19/11	5.014	9/18/11	8.087	11/18/11	7.559	1/17/12	6.751	3/20/12	
5/20/11	4.853	7/20/11	4.982	9/19/11	8.100	11/19/11	7.273	1/19/12	6.592	3/21/12	
5/21/11	4.893	7/21/11	4.953	9/20/11	8.109	11/20/11	7.161	1/20/12	6.516	3/22/12	
5/22/11	4.932	7/22/11	4.924	9/21/11	8.121	11/21/11	6.998	1/21/12	6.131	3/23/12	
5/23/11	4.936	7/23/11	4.826	9/22/11	8.132	11/22/11	6.801	1/22/12	6.362	3/24/12	
5/24/11	4.953	7/24/11	4.686	9/23/11	8.141	11/23/11	6.815	1/23/12	5.985	3/25/12	
5/25/11	4.893	7/25/11	4.623	9/24/11	8.135	11/24/11	6.868	1/24/12	5.922	3/26/12	
5/26/11	4.975	7/26/11	4.583	9/25/11	8.142	11/25/11	6.863	1/25/12	6.076	3/27/12	
5/27/11	4.963	7/27/11	4.615	9/26/11	8.149	11/26/11	6.877	1/26/12	6.250	3/28/12	
5/28/11	4.856	7/28/11	4.690	9/27/11	8.158	11/27/11	6.924	1/27/12	6.370	3/29/12	
5/29/11	4.707	7/29/11	4.687	9/28/11	8.151	11/28/11	6.944	1/28/12	6.591	3/30/12	
5/30/11	4.690	7/30/11	4.578	9/29/11	8.150	11/29/11	6.949	1/29/12	6.579	3/31/12	
5/31/11	4.692	7/31/11	4.444	9/30/11	8.151	11/30/11	6.941	1/30/12	6.433		
								1/31/12	6.622		

#### 7.7 DAILY GROUNDWATER ELEVATION AT 8C-8

Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)	Date	Depth (ft)
4/1/11	3.380	6/1/11	4.639	8/1/11	5.220	10/1/11		12/1/11		2/1/12	
4/2/11	3.694	6/2/11	4.512	8/2/11	5.206	10/2/11		12/2/11		2/2/12	
4/3/11	3.871	6/3/11	4.471	8/3/11	5.161	10/3/11		12/3/11		2/3/12	
4/4/11	3.988	6/4/11	4.441	8/4/11	5.056	10/4/11		12/4/11		2/4/12	
4/5/11	4.102	6/5/11	4.579	8/5/11	4.911	10/5/11		12/5/11		2/5/12	
4/6/11	4.192	6/6/11	4.554	8/6/11	4.789	10/6/11		12/6/11		2/6/12	
4/7/11	4.269	6/7/11	4.543	8/7/11	4.695	10/7/11		12/7/11		2/7/12	
4/8/11 4/9/11	4.293 4.311	6/8/11 6/9/11	4.615 4.720	8/8/11 8/9/11	4.610 4.516	10/8/11 10/9/11		12/8/11 12/9/11		2/8/12 2/9/12	
4/10/11	4.311	6/10/11	4.720	8/10/11	4.446	10/10/11		12/10/11		2/10/12	
4/11/11	4.317	6/11/11	5.030	8/11/11	4.384	10/10/11		12/11/11		2/11/12	
4/12/11	4.318	6/12/11	5.114	8/12/11	4.305	10/12/11		12/12/11		2/12/12	
4/13/11	4.290	6/13/11	5.172	8/13/11	4.231	10/13/11		12/13/11		2/13/12	
4/14/11	4.242	6/14/11	5.252	8/14/11	4.148	10/14/11		12/14/11		2/14/12	
4/15/11	4.235	6/15/11	5.341	8/15/11	4.086	10/15/11		12/15/11		2/15/12	
4/16/11	4.266	6/16/11	5.435	8/16/11	3.985	10/16/11		12/16/11		2/16/12	
4/17/11	4.308	6/17/11	5.501	8/17/11	3.882	10/17/11		12/17/11		2/17/12	
4/18/11	4.349	6/18/11	5.537	8/18/11	3.778	10/18/11		12/18/11		2/18/12	
4/19/11	4.368	6/19/11	5.565	8/19/11	3.679	10/19/11		12/19/11		2/19/12	
4/20/11	4.385	6/20/11	5.588	8/20/11	3.610	10/20/11		12/20/11		2/20/12	
4/21/11	4.380	6/21/11	5.571	8/21/11	3.423	10/21/11		12/21/11		2/21/12	
4/22/11	4.368	6/22/11	5.558	8/22/11	3.245	10/22/11		12/22/11		2/22/12	
4/23/11	4.372	6/23/11	5.577	8/23/11	3.109	10/23/11		12/23/11		2/23/12	
4/24/11	4.343	6/24/11	5.583	8/24/11	2.996	10/24/11		12/24/11		2/24/12	
4/25/11	4.313	6/25/11	5.576	8/25/11		10/25/11		12/25/11		2/25/12	
4/26/11	4.278	6/26/11	5.548	8/26/11		10/26/11		12/26/11		2/26/12	
4/27/11	4.251	6/27/11	5.510	8/27/11		10/27/11 10/28/11		12/27/11		2/27/12 2/28/12	
4/28/11 4/29/11	4.283 4.279	6/28/11 6/29/11	5.483 5.548	8/28/11 8/29/11		10/28/11		12/28/11 12/29/11		2/28/12	
4/29/11	4.274	6/30/11	5.518	8/30/11		10/29/11		12/29/11		2/29/12	
4/30/11	4.274	0/30/11	5.516	8/31/11		10/30/11		12/31/11		3/1/12	
5/1/11	4.290	7/1/11	5.465	0/31/11		10/51/11		12/31/11		3/2/12	
5/2/11	4.332	7/2/11	5.428	9/1/11		11/1/11		1/1/12		3/3/12	
5/3/11	4.368	7/3/11	5.473	9/2/11		11/2/11		1/2/12		3/4/12	
5/4/11	4.400	7/4/11	5.558	9/3/11		11/3/11		1/3/12		3/5/12	
5/5/11	4.437	7/5/11	5.631	9/4/11		11/4/11		1/4/12		3/6/12	
5/6/11	4.469	7/6/11	5.638	9/5/11		11/5/11		1/5/12		3/7/12	
5/7/11	4.525	7/7/11	5.652	9/6/11		11/6/11		1/6/12		3/8/12	
5/8/11	4.604	7/8/11	5.644	9/7/11		11/7/11		1/7/12		3/9/12	
5/9/11	4.673	7/9/11	5.616	9/8/11		11/8/11		1/8/12		3/10/12	
5/10/11	4.726	7/10/11	5.569	9/9/11		11/9/11		1/9/12		3/11/12	
5/11/11	4.709	7/11/11	5.518	9/10/11		11/10/11		1/10/12		3/12/12	
5/12/11	4.675	7/12/11	5.477	9/11/11		11/11/11		1/11/12		3/13/12	
5/13/11	4.672	7/13/11	5.372	9/12/11		11/12/11		1/12/12		3/14/12	
5/14/11	4.710	7/14/11	5.168	9/13/11		11/13/11		1/13/12		3/15/12	
5/15/11	4.780	7/15/11	4.975	9/14/11		11/14/11		1/14/12		3/16/12	
5/16/11	4.825	7/16/11	4.834	9/15/11		11/15/11		1/15/12		3/17/12	
5/17/11 5/18/11	4.804 4.757	7/17/11 7/18/11	4.735 4.687	9/16/11 9/17/11		11/16/11 11/17/11		1/16/12 1/17/12		3/18/12 3/19/12	
5/18/11	4.737	7/18/11	4.687	9/17/11		11/17/11		1/17/12		3/19/12	
5/20/11	4.648	7/20/11	4.671	9/19/11		11/19/11		1/19/12		3/20/12	
5/21/11	4.608	7/20/11	4.683	9/20/11		11/20/11		1/10/12		3/22/12	
5/22/11	4.586	7/22/11	4.698	9/21/11		11/21/11		1/21/12		3/23/12	
5/23/11	4.575	7/23/11	4.741	9/22/11		11/22/11		1/22/12		3/24/12	
5/24/11	4.557	7/24/11	4.825	9/23/11		11/23/11		1/23/12		3/25/12	
5/25/11	4.584	7/25/11	4.893	9/24/11		11/24/11		1/24/12		3/26/12	
5/26/11	4.553	7/26/11	4.956	9/25/11		11/25/11		1/25/12		3/27/12	
5/27/11	4.553	7/27/11	4.945	9/26/11		11/26/11		1/26/12		3/28/12	
5/28/11	4.612	7/28/11	4.889	9/27/11		11/27/11		1/27/12		3/29/12	
5/29/11	4.705	7/29/11	4.940	9/28/11		11/28/11		1/28/12		3/30/12	
5/30/11	4.719	7/30/11	5.061	9/29/11		11/29/11		1/29/12		3/31/12	
5/31/11	4.724	7/31/11	5.176	9/30/11		11/30/11		1/30/12			
								1/31/12			

# 8. APPENDIX C: DAILY WATER TEMPERATURE SUMMARY

# 8.1 DAILY AVERAGE, MAXIMUM, AND MINIMUM WATER TEMPERATURE (°F) AT LEE VINING CREEK BELOW INTAKE, LEE VINING CREEK AT COUNTY ROAD, PARKER CREEK BELOW CONDUIT, AND WALKER CREEK AT MOUTH.

	LV	Below Inta	ke	LV	County Roa	ıd	Par	ker at Con	duit	Wa	lker at Mou	th
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Mir
4/1/2011	20.0	46.0	26.0				20.0	42.2	26.4	41.0	<b>50.</b> 6	25.6
4/1/2011	38.9	46.2	36.0				38.8	43.2	36.4	41.2	50.6	35.0
4/2/2011	39.0	43.9	37.1				38.8	41.2	37.5	41.5	49.2	37.3
4/3/2011	37.7	43.0	34.6				37.9	42.0	34.9	39.0	46.9	33.
4/4/2011	36.7	44.8	34.4				38.9	44.1	34.9	39.9	49.7	33.0
4/5/2011	37.8	42.9	35.5				40.7	45.6	37.0	42.3	52.0	35.4
4/6/2011	36.2	41.2	34.5				39.8	43.9	36.9	41.4	49.6	35.0
4/7/2011	34.7	35.9	32.9				35.6	37.3	33.5	35.7	40.3	32
4/8/2011	32.6	37.5	31.9				33.7	35.9	32.1	33.5	37.7	32.0
4/9/2011	33.4	39.9	32.7				35.5	39.2	32.8	36.1	44.4	32.0
4/10/2011	33.9	41.9	32.7				36.9	41.8	32.7	38.0	47.6	32.
4/11/2011	35.5	42.6	34.2				39.2	43.9	35.5	40.8	49.6	34.
4/12/2011	35.8	42.7	34.0				39.4	44.2	35.3	40.9	50.3	33.
4/13/2011	35.7	37.1	33.4				37.4	39.6	34.9	37.7	42.0	33.
4/14/2011	33.2	40.5	32.5				36.9	42.4	32.7	37.9	47.4	32.
4/15/2011	35.4	43.4	34.8				40.9	46.5	36.8	43.0	54.3	35.
4/16/2011	37.0	44.5	35.5				42.7	47.7	38.6	45.3	53.9	37.
4/17/2011	37.9	44.9	36.6				43.8	49.4	39.5	45.9	54.4	38.
4/18/2011	37.5	43.4	36.5				42.8	47.3	39.3	44.7	52.2	40.4
4/19/2011	36.6	44.5	35.5				42.4	49.0	37.6	43.5	50.1	37.
4/20/2011	36.8	40.3	35.7				42.1	45.7	39.4	44.0	51.5	39.:
4/21/2011	35.4	42.6	35.3				41.4	46.3	38.4	42.2	51.0	36.
4/22/2011	35.6	40.2	34.3				40.5	44.0	37.1	40.3	46.8	35.
4/23/2011	36.2	42.4	35.8				42.3	46.5	39.5	42.7	47.8	38.:
4/24/2011	36.7	42.9	35.3				41.8	46.4	38.6	42.9	50.8	37.
4/25/2011	35.7	43.5	34.9				41.4	47.1	37.8	41.6	49.8	36.:
4/26/2011	35.3	44.2	34.0				40.8	46.8	35.9	41.6	52.2	33.
4/27/2011	36.6	45.9	35.0				43.4	49.7	38.5	44.4	54.8	35.
4/28/2011	38.0	45.5	36.1				43.6	48.9	40.4	44.7	54.3	39.
4/29/2011	36.4	43.7	34.6				40.8	45.8	37.1	42.1	52.2	35.
4/30/2011	35.6	43.4	33.4				40.2	45.6	35.6	40.5	50.5	32.

FINAL REPORT: Monitoring Results and Analyses for RY2011-12

	LV I	Below Intak	e	LV	County Roa	ıd	Park	er at Cond	uit	Wa	alker at Mo	uth
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
5/1/2011	35.9	44.8	33.9				41.6	47.6	36.6	42.2	53.1	33.3
5/2/2011	36.9	48.6	35.1				43.9	50.0	38.7	45.5	56.1	36.9
5/3/2011	43.4	45.8	36.7				46.2	51.8	41.4	49.2	59.1	40.9
5/4/2011	37.5	45.4	35.8				46.2	52.0	41.0	49.3	59.0	41.3
5/5/2011	38.0	45.8	36.7				47.7	53.7	42.7	50.6	60.3	42.3
5/6/2011	38.8	44.5	37.3				47.8	53.3	42.9	51.1	59.7	43.6
5/7/2011	38.5	42.9	37.5				47.5	52.1	44.0	49.8	55.6	45.4
5/8/2011	38.3	43.1	36.5				46.6	51.1	44.1	48.4	53.0	45.4
5/9/2011	36.1	37.4	34.9				41.2	43.2	39.8	41.4	44.4	39.0
5/10/2011	35.5	41.8	34.5				42.7	48.4	38.4	43.0	51.0	37.1
5/11/2011	37.5	44.9	36.1				45.7	51.1	41.0	47.1	54.9	40.0
5/12/2011	39.2	46.4	37.7				48.1	54.2	43.2	50.6	59.5	43.1
5/13/2011	39.4	45.9	37.7				48.9	54.8	44.3	51.8	60.4	44.9
5/14/2011	38.9	43.9	37.8				48.0	52.3	45.0	50.5	56.8	46.3
5/15/2011	37.6	38.5	35.2				42.7	44.9	40.3	45.6	49.7	42.2
5/16/2011	35.0	41.7	34.3				42.7	47.7	38.6	44.4	50.8	39.4
5/17/2011	36.7	40.2	35.8				43.3	45.5	41.2	45.8	51.0	42.6
5/18/2011	35.9	41.2	35.3				42.1	45.4	39.8	44.5	49.9	40.5
5/19/2011	36.7	41.6	36.1				43.6	47.4	40.4	45.7	51.0	41.7
5/20/2011	37.8	46.8	36.1				46.0	52.9	40.4	48.8	58.3	40.6
5/21/2011	39.5	46.1	38.0				47.8	51.5	44.0	51.8	60.3	45.7
5/22/2011	39.5	45.0	37.4				47.5	52.4	43.2	50.2	56.3	44.6
5/23/2011	39.1	44.7	36.9				47.0	51.9	42.8	49.9	57.2	43.9
5/24/2011	37.9	45.2	36.2				46.4	52.4	41.2	49.2	57.2	41.8
5/25/2011	39.0	44.2	37.8				46.9	50.7	43.6	49.6	57.0	44.7
5/26/2011	37.6	44.8	36.2				46.0	52.3	41.0	48.6	56.8	42.6
5/27/2011 5/28/2011	37.8 38.1	44.6 43.4	37.3 36.7				48.1 46.9	54.1 51.9	43.5 43.7	49.9 48.8	59.3 55.3	44.3 44.5
5/29/2011	36.3	40.9	35.2				43.7	46.7	43.7	44.9	49.4	40.7
5/30/2011	36.2	44.5	34.8				44.9	50.9	39.9	46.5	54.4	39.6
5/31/2011	37.9	46.5	36.3				45.3	50.6	41.4	47.5	54.5	42.7
3/31/2011	31.7	40.5	30.3				43.3	30.0	71.7	47.3	34.3	42.7
6/1/2011	37.7	43.2	36.4				44.0	48.8	40.6	46.0	53.6	41.1
6/2/2011	36.0	43.7	35.2				43.2	49.1	38.6	44.7	53.0	38.2
6/3/2011	36.6	43.1	35.5				44.0	48.7	39.8	44.4	49.6	38.8
6/4/2011	38.4	40.7	38.0				45.3	46.9	43.5	47.3	50.8	44.5
6/5/2011	38.8	46.3	38.5				47.9	53.4	44.2	51.2	58.7	46.0
6/6/2011	39.7	46.1	38.3				46.9	50.0	44.5	51.2	56.3	47.6
6/7/2011	39.1	44.4	37.4				47.5	52.9	43.4	51.6	59.5	45.4
6/8/2011	38.9	45.9	38.1				49.2	55.2	44.3	53.1	60.6	46.4
6/9/2011	39.2	46.0	38.3				50.3	56.6	45.1	54.3	61.8	47.6
6/10/2011	39.3	45.4	38.8				51.7	57.3	47.2	55.8	62.3	49.8
6/11/2011	39.6	42.1	38.0				50.8	54.3	46.8	54.6	59.7	49.9
6/12/2011	39.5	45.1	38.6				52.5	57.1	49.0	57.5	63.3	52.6
6/13/2011	39.8	45.1	38.7				52.7	57.4	48.5	58.7	64.5	53.0
6/14/2011	39.8	45.6	38.9				52.7	57.3	49.1	59.9	66.4	54.3
6/15/2011	40.7	45.7	39.3				52.7	56.9	49.2	60.5	66.3	55.2
6/16/2011	41.1	44.9	39.0				50.7	54.5	47.6	58.2	63.2	53.5
6/17/2011	39.9	45.0	38.0				49.5	53.6	46.0	57.4	63.3	51.8
6/18/2011	40.5	44.8	38.9				50.0	53.5	46.3	58.3	63.9	53.1
6/19/2011	41.5	46.0	39.9				49.5	53.2	47.0	57.7	62.8	53.4
6/20/2011	40.6	46.3	38.9				49.1	53.6	45.5	57.4	64.7	51.3
6/21/2011	41.3	47.0	40.0				50.4	54.4	46.6	59.5	66.2	53.7
6/22/2011	42.6	47.2	40.7				50.7	54.4	47.1	61.2	67.1	56.0
6/23/2011	42.9	47.2	41.0				49.6	53.4	47.2	60.3	65.2	56.2
6/24/2011	42.1	46.4	40.1				48.2	52.5	45.2	58.7	64.5	53.6
6/25/2011	42.6	46.8	40.4				48.0	51.9	44.7	58.3	64.2	52.8
6/26/2011	42.9	47.2	41.0				48.0	51.9	44.4	58.6	64.5	53.3
6/27/2011	43.8	47.9	41.7				49.0	52.7	45.5	59.5	65.4	54.3
6/28/2011	44.4	47.9	42.7				48.6	52.2	46.4	58.7	63.0	55.2
6/29/2011	43.6	44.1	41.7				46.3	47.6	45.0	56.1	58.9	54.4
6/30/2011												

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	LV l	Below Intak	ce	LV	County Ro	ad	Park	er at Cond	uit	Wa	alker at Mo	uth
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
7/1/2011	43.7	48.8	42.3				48.9	53.1	45.4	59.7	66.0	54.3
7/2/2011	45.4	50.0	43.9				50.2	54.2	46.4	61.3	67.0	55.9
7/3/2011	46.3	49.2	43.5				50.5	54.6	46.5	62.0	67.6	56.8
7/4/2011	45.9	49.2	44.0				50.2	54.0	47.1	62.4	68.1	57.4
7/5/2011	46.6	47.1	44.7				48.1	49.8	46.5	61.9	64.8	58.9
7/6/2011	45.0	47.6	44.1				48.3	51.2	45.8	61.9	66.3	58.5
7/7/2011	45.9	49.0	44.4				48.0	51.7	45.0	61.9	67.0	57.9
7/8/2011	46.2	49.1	43.8				48.2	52.3	44.5	61.3	67.2	56.0
7/9/2011	46.1	49.8	44.2				47.8	51.4	44.2	61.3	66.3	56.6
7/10/2011	45.9	49.4	43.7				47.2	51.1	43.7	60.3	65.8	55.3
7/11/2011	45.9	49.7	44.0				47.8	51.9	44.4	59.6	64.9	54.7
7/12/2011	46.4	50.3	44.5				48.6	52.5	45.4	59.6	64.7	54.6
7/13/2011	47.1	50.0	44.9				48.7	52.5	45.9	59.6	64.5	54.9
7/14/2011	46.3	49.6	44.3				48.5	52.2	45.0	59.2	64.2	54.0
7/15/2011	47.3	50.0	45.5				49.1	52.3	46.2	59.9	64.2	56.0
7/16/2011	46.9	50.9	45.3				48.7	52.6	45.7	58.9	63.4	54.4
7/17/2011	47.4	50.7	45.0				49.0	53.2	45.9	58.7	63.3	54.1
7/18/2011	46.6	50.7	44.5				48.7	52.9	45.7	59.0	64.0	54.0
7/19/2011	46.4	50.4	44.5				48.9	53.4	45.4	58.9	63.7	54.9
7/20/2011	47.1	51.7	45.4				50.1	54.2	46.6	59.5	64.7	54.6
7/21/2011	48.5	52.2	46.2				50.6	54.6	46.9	60.3	65.5	55.2
7/22/2011	49.2	52.6	47.3				51.0	55.0	47.6	61.4	66.5	56.4
7/23/2011	49.8	52.9	47.7				51.5	55.4	48.3	62.3	67.5	57.3
7/24/2011	50.4	53.4	48.7				51.7	55.0	48.6	62.4	66.6	58.3
7/25/2011	49.6	52.4	47.4				51.0	54.6	47.7	61.0	65.4	56.6
7/26/2011	48.5	52.3	46.6				50.4	54.7	46.3	60.2	65.5	54.8
7/27/2011	49.4	52.9	47.5				51.3	55.1	47.7	61.2	66.3	56.3
7/28/2011	50.1	53.4	48.1				51.6	55.6	48.3	61.9	67.3	57.0
7/29/2011	51.1	53.8	49.5				51.6	54.3	49.0	61.9	66.9	58.2
7/30/2011	50.6	52.8	49.5				50.0	52.4	48.6	61.3	64.9	58.2
7/31/2011	49.6	50.3	48.3				49.4	50.8	47.8	60.5	62.9	57.8
8/1/2011	49.3	51.9	47.7				50.0	53.5	47.5	61.3	65.7	57.5
8/2/2011	49.2	52.9	47.7				50.8	54.6	48.0	61.1	65.5	57.1
8/3/2011	49.4	53.5	47.8				50.9	54.5	48.0	61.0	65.9	56.5
8/4/2011	50.6	53.6	48.4				50.9	54.7	47.4	60.6	65.5	55.7
8/5/2011	50.6	54.1	48.5				51.0	54.8	47.5	60.7	65.9	55.8
8/6/2011	51.6	54.8	49.6				51.7	55.4	48.2	61.2	65.8	56.8
8/7/2011	51.9	54.6	49.2				51.4	55.5	47.4	60.1	65.7	54.7
8/8/2011	51.5	54.4	48.9				51.7	55.8	47.7	60.3	66.1	54.7
8/9/2011	51.5	54.8	49.3				52.1	56.1	48.1	60.5	66.2	55.4
8/10/2011	51.5	55.4	49.7				52.4	56.3	48.7	60.8	66.6	55.5
8/11/2011	52.3	55.7	50.2				52.7	56.7	49.0	61.2	67.1	56.2
8/12/2011	52.3	55.6	50.1				53.1	57.0	49.2	60.5	66.3	55.6
8/13/2011	52.2	54.6	50.3				53.1	55.7	50.3	59.6	64.5	55.0
8/14/2011	52.2	55.9	50.4				52.9	56.9	49.3	59.0	66.0	52.6
8/15/2011	52.4	54.9	50.1				52.4	55.9	48.9	59.8	64.5	55.7
8/16/2011	51.2	55.3	49.6				52.0	56.0	48.3	58.5	64.5	53.6
8/17/2011	51.9	55.3	49.6				52.0	56.2	48.2	58.7	64.8	53.2
8/18/2011	52.6	56.2	50.5				52.8	57.2	48.9	60.0	66.3	54.3
8/19/2011	51.5	55.9	48.9				53.8	57.8	50.2	60.8	66.8	56.1
8/20/2011	52.5	55.7	50.2				53.1	56.9	49.7	60.1	66.0	55.2
8/21/2011	51.3	55.2	49.1				52.5	56.1	49.4	58.7	64.8	53.5
8/22/2011	50.5	54.9	48.6				52.3	56.3	49.0	58.6	64.3	53.0
8/23/2011	52.2	56.0	50.0				54.1	57.9	50.4	60.7	66.4	55.6
8/24/2011	52.8	56.5	51.1				54.9	58.3	51.8	61.4	67.3	56.9
8/25/2011	52.9	56.4	50.8				54.3	57.5	51.1	60.5	66.0	55.8
8/26/2011	52.5	56.1	50.5				53.8	57.3	50.2	59.5	64.3	54.4
8/27/2011	53.6	56.7	52.7				55.4	58.2	53.1	62.8	67.5	59.4
8/28/2011	53.7	56.9	51.9				54.5	57.2	51.8	61.6	66.3	57.2
8/29/2011	53.1	56.2	51.3				54.1	56.9	50.8	60.6	66.5	55.6
8/30/2011	53.1	56.3	50.8				53.3	56.8	50.0	59.6	65.2	55.0
8/31/2011	52.4	55.6	49.4				52.1	56.0	48.1	57.6	64.2	51.9

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	LV	Below Intak	re .	LV	County Ro	ad	Park	cer at Conc	luit	Wa	ılker at Moı	uth
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
9/1/2011	51.9	55.3	49.6				52.2	55.8	48.8	57.4	63.8	52.4
9/2/2011	51.5	54.8	49.1				51.7	56.2	48.0	56.7	63.1	51.2
9/3/2011	51.5	56.1	49.7				52.3	56.6	48.8	57.2	63.6	51.8
9/4/2011	51.6	55.7	49.8				52.7	56.3	49.1	57.5	63.7	52.2
9/5/2011	52.3	54.2	50.9				52.8	54.6	50.6	57.4	61.8	54.0
9/6/2011	51.8	56.3	49.9				52.1	56.0	48.6	56.9	63.6	51.7
9/7/2011	51.4	55.2	50.0				52.6	55.6	49.3	57.3	64.5	52.0
9/8/2011	52.6	56.1	50.8				53.4	55.5	50.9	57.6	63.9	53.2
9/9/2011	51.7	54.3	49.9				52.1	53.8	49.9	55.4	59.1	52.2
9/10/2011	51.1	54.3	49.6				51.2	53.0	49.0	54.9	59.3	51.1
9/11/2011	51.1	53.0	49.8				50.8	52.2	49.6	55.0	58.9	52.6
9/12/2011 9/13/2011	49.6	52.0	47.7				50.0	52.7 52.8	47.2	54.2 56.0	58.5	50.0
9/13/2011	49.6 49.3	51.6 53.2	48.7 47.2				51.0 50.6	52.8	49.0 47.5	55.3	59.6 61.2	52.9 50.5
9/15/2011	49.5	51.9	47.7				50.6	53.5	47.7	54.9	59.4	50.8
9/16/2011	49.5	51.6	48.3				50.0	53.0	48.9	55.2	60.7	51.7
9/17/2011	48.5	51.9	45.9				49.2	52.7	45.6	52.8	59.0	47.7
9/18/2011	48.0	52.7	46.1				50.0	53.8	46.3	53.2	59.8	47.9
9/19/2011	48.6	52.3	46.8				50.7	54.0	47.4	54.1	60.4	49.0
9/20/2011	49.6	53.4	47.6				50.7	53.3	47.8	54.5	61.1	49.9
9/21/2011	49.3	52.6	47.5				50.5	53.3	47.4	54.6	60.8	49.7
9/22/2011	49.0	52.5	47.4				50.8	54.3	47.5	54.4	60.8	49.4
9/23/2011	49.3	52.4	47.4				50.7	53.6	47.7	54.1	58.6	50.0
9/24/2011	49.3	51.1	47.8				50.3	52.3	47.9	53.6	57.0	50.4
9/25/2011	48.8	52.1	47.8				50.0	52.4	47.3	53.3	58.0	49.4
9/26/2011	48.6	52.5	46.8				50.3	53.3	47.1	53.5	59.9	48.5
9/27/2011	48.5	52.8	46.0				50.9	54.1	47.5	53.9	60.4	48.9
9/28/2011	48.2	52.2	45.6				51.1	54.2	47.8	53.9	60.2	49.1
9/29/2011	48.3	52.6	46.4				51.4	54.4	48.2	54.3	60.9	49.4
9/30/2011	48.3	51.0	45.8				51.2	52.9	48.7	53.6	58.8	49.8
10/1/2011	47.4	51.1	44.6				50.0	51.9	48.1	53.1	57.8	49.5
10/2/2011	47.2	51.8	46.0				50.0	52.0	48.3	53.9	58.8	51.1
10/3/2011	46.5	49.3	43.9				48.3	49.9	46.9	51.6	56.2	48.6
10/4/2011	46.4	48.2	44.5				47.0	48.6	45.3	50.2	54.4	47.1
10/5/2011	44.7	44.7	40.2				43.6	46.3	41.0	46.7	49.8	42.9
10/6/2011	40.0	42.0	39.0				40.1	41.7	38.7	41.9	44.6	39.1
10/7/2011	39.5	43.3	38.8				40.2	43.5	36.9	41.2	47.2	36.6
10/8/2011	41.3	44.7	40.6				43.5	46.0	40.9	44.8	51.0	40.5
10/9/2011	42.1	45.7	41.0				44.2	46.8	41.2	45.7	51.5	41.4
10/10/2011	43.3	46.3	42.5				45.3	47.9	42.8	46.8	50.7	43.9
10/11/2011	44.5	47.5	43.5 42.8				46.4 45.9	48.9	44.1 42.8	49.0	54.7	45.2
10/12/2011 10/13/2011	43.9 45.0	48.1 48.5	44.0				45.9	49.0 49.6	43.9	47.7 48.9	53.8 54.7	42.9 44.5
10/13/2011	45.5	49.0	44.0				47.5	50.0	44.4	49.6	55.0	45.1
10/15/2011	46.5	48.8	45.0				47.5	50.1	44.5	49.6	52.6	46.2
10/16/2011	46.8	48.7	45.4				47.5	49.4	44.9	50.1	53.3	46.8
10/17/2011	46.3	48.9	44.8				47.0	49.1	44.5	49.7	54.6	46.1
10/18/2011	45.3	48.8	43.9				46.0	48.8	43.0	48.7	53.8	44.4
10/19/2011	45.5	48.5	44.3				46.1	48.4	43.7	48.5	53.6	44.7
10/20/2011	45.2	48.4	43.7				45.5	48.0	42.7	47.6	52.9	43.5
10/21/2011	46.1	47.7	43.0				44.8	47.1	42.0	46.9	52.0	42.9
10/22/2011	43.6	47.1	41.2				44.2	46.9	41.4	45.9	51.5	41.7
10/23/2011	43.3	47.1	40.8				44.1	46.8	41.0	45.6	51.1	41.0
10/24/2011	44.4	47.1	43.2				45.0	47.6	43.0	46.5	50.5	43.5
10/25/2011	43.7	46.2	42.2				43.4	45.4	41.3	44.8	49.8	41.1
10/26/2011	43.4	43.4	39.7				40.1	43.1	37.8	41.2	45.3	37.5
10/27/2011	40.3	43.6	38.8				38.8	41.7	35.9	39.2	44.8	35.1
10/28/2011	41.0	44.4	39.5				40.1	43.0	37.2	40.4	46.3	36.3
10/29/2011	41.6	44.8	39.9				40.9	43.8	38.1	41.5	47.3	37.2
10/30/2011	41.6	44.6	39.9				41.1	43.7	38.3	41.8	47.2	37.7
10/31/2011	42.0	44.8	40.2				41.6	44.0	38.7	42.3	47.6	38.1

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	LV	Below Intal	ke	LV	County R	oad	Par	rker at Con	duit	Wa	lker at Mou	ıth
Date	Mean	Max	Min									
11/1/2011	42.6	43.5	39.7				41.2	42.7	37.7	41.9	46.0	37.7
11/2/2011	39.2	41.1	36.7				36.5	38.8	34.0	36.4	41.3	32.4
11/3/2011	38.6	41.5	37.2				37.1	39.8	34.9	36.7	41.9	32.8
11/4/2011	39.5	39.5	36.7				35.8	37.3	34.5	36.6	39.3	34.2
11/5/2011	36.5	38.3	34.3				34.1	36.0	32.5	33.5	35.3	32.2
11/6/2011	37.0	39.4	36.3				35.1	36.6	33.7	34.9	38.0	32.5
11/7/2011	36.7	38.7	35.1				34.6	36.3	33.3	34.2	38.0	32.5
11/8/2011	35.9	38.3	34.0				33.1	33.9	32.4	32.9	34.2	32.1
11/9/2011	36.1	39.0	34.4				34.1	36.0	32.3	33.0	35.0	32.1
11/10/2011	37.3	39.5	35.1				35.3	37.1	33.2	34.3	38.1	32.1
11/11/2011 11/12/2011	37.8	38.9	36.7				36.8	38.7	35.3	35.7	38.1	33.9
11/12/2011	38.3 38.2	41.6 41.5	38.1 37.5				37.9 37.7	40.1 40.1	36.8 36.2	37.7 37.8	40.7 42.5	35.9 35.3
11/14/2011	38.6	41.3	37.6				37.7	39.9	36.2	37.9	42.4	35.1
11/15/2011	38.1	41.2	36.3				37.3	40.1	35.1	36.8	41.8	33.1
11/16/2011	38.4	40.8	36.4				36.9	38.9	34.8	36.6	41.5	33.1
11/17/2011	38.2	40.5	36.0				36.7	38.7	34.7	36.4	41.2	32.6
11/18/2011	38.5	39.8	36.3				36.3	38.2	34.0	36.9	40.4	34.4
11/19/2011	36.2	38.7	35.1				34.2	36.2	32.8	34.4	37.6	32.8
11/20/2011	36.0	38.1	35.8				33.4	34.1	32.6	33.6	34.8	32.5
11/21/2011	35.8	37.9	34.2				32.5	32.9	32.1	32.7	33.7	31.9
11/22/2011	36.2	39.3	35.1				33.4	35.0	32.2	32.8	33.4	32.1
11/23/2011	37.5	40.5	36.0				35.2	37.3	33.3	34.3	37.5	32.3
11/24/2011	37.9	40.3	36.6				35.4	37.0	34.2	35.3	39.0	32.9
11/25/2011 11/26/2011	37.6 37.5	40.0 40.0	35.9				34.5 34.5	36.5	32.7 32.7	34.1	38.2 38.1	32.3 32.1
11/27/2011	38.1	41.1	35.8 37.3				36.2	36.4 38.7	34.7	34.1 35.9	40.7	33.5
11/28/2011	39.1	40.8	37.0				36.3	37.9	34.3	35.6	39.6	32.5
11/29/2011	39.5	41.0	37.4				36.6	38.4	34.5	35.6	40.5	32.3
11/30/2011	38.8	39.6	35.9				36.9	38.2	34.3	35.5	38.7	33.1
12/1/2011	35.4	35.4	32.9				32.4	33.8	32.1	32.6	33.2	32.1
12/2/2011	33.5	36.3	32.0				32.3	32.6	32.0	32.3	33.1	31.9
12/3/2011	34.0	34.5	31.9				32.2	32.7	31.9	32.2	33.3	31.9
12/4/2011	32.1	35.0	31.9				32.2	32.5	32.0	32.2	32.5	32.0
12/5/2011	34.2	35.2	32.0				32.2	32.7	32.0	32.4	33.4	31.9
12/6/2011	32.5	35.3	31.9				32.2	32.6	32.0	32.3	33.1	32.0
12/7/2011 12/8/2011	34.2 34.9	36.7 37.0	32.5 33.1				32.3 32.4	32.7 32.7	32.0 32.1	32.5 32.5	33.4 33.6	32.0 32.0
12/9/2011	34.2	35.3	31.9				32.4	32.7	32.1	32.3	32.9	31.9
12/10/2011	33.2	35.0	32.0				32.3	32.7	32.0	32.2	33.0	31.9
12/11/2011	33.7	35.7	32.1				32.5	33.0	32.1	32.3	33.0	31.9
12/12/2011	33.2	34.7	32.0				32.4	32.7	32.0	32.4	33.0	32.0
12/13/2011	34.4	34.8	32.0				32.7	33.0	32.3	32.5	33.0	32.0
12/14/2011	33.5	34.1	31.9				32.3	32.6	32.0	32.3	32.7	32.0
12/15/2011	33.2	35.7	32.9				32.7	33.2	32.2	32.6	33.1	32.2
12/16/2011	33.9	35.6	32.6				32.9	33.4	32.6	32.6	33.3	32.2
12/17/2011				32.1	32.8	31.9	32.4	32.7	32.0	32.3	32.7	32.0
12/18/2011				32.0	32.5	31.9	32.4	33.0	32.0	32.3	32.7	32.0
12/19/2011				32.8	34.1	31.9	33.2	33.8	32.6	32.6	33.2	32.1
12/20/2011 12/21/2011				32.3 32.1	33.3 32.8	31.9 31.9	32.8 32.6	33.5 33.4	32.3 32.2	32.3 32.4	33.2 33.0	32.0 32.0
12/21/2011				32.1	32.0	31.9	32.0	32.3	32.2	32.4	33.0	32.0
12/23/2011	32.0	32.3	32.0	32.0	32.0	31.9	32.1	32.3	32.0	32.1	32.3	32.0
12/24/2011	32.5	32.9	32.0	32.0	32.3	31.9	32.1	32.4	32.0	32.1	32.2	32.0
12/25/2011	32.3	33.4	32.1	32.0	32.4	31.9	32.2	32.5	32.0	32.2	32.4	32.0
12/26/2011	32.2	33.7	32.0	32.0	32.4	31.9	32.2	32.5	32.0	32.3	32.6	32.1
12/27/2011	33.1	35.6	32.7	32.1	32.5	31.9	32.5	33.2	32.1	32.5	32.9	32.2
12/28/2011				33.3	35.3	31.9	33.9	34.6	33.2	32.8	33.4	32.3
12/29/2011				36.0	37.7	34.9	35.2	36.0	34.7	33.1	34.0	32.6
12/30/2011				36.0	38.1	35.0	35.2	35.9	34.6	33.1	34.4	32.3
12/31/2011				34.5	36.0	33.1	34.4	35.5	33.4	32.9	33.9	32.0

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	LV	Below Intal	ke	LV	County Roa	ıd	Parl	ker at Cond	luit	Wa	alker at Mo	outh
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
1/1/2012				34.0	35.9	32.4	33.8	34.8	32.7	32.9	33.8	32.0
1/2/2012				34.3	36.3	32.4	34.2	35.7	32.7	33.2	34.3	32.1
1/3/2012				35.9	38.1	34.7	35.5	36.7	34.6	34.4	35.7	33.2
1/4/2012				35.6	37.7	33.9	35.1	36.4	34.0	34.3	35.8	32.9
1/5/2012				35.9	38.1	34.1	35.4	36.7	34.4	34.7	36.5	33.0
1/6/2012				35.7	37.9	34.0	34.8	35.9	33.6	34.3	36.1	32.4
1/7/2012				34.2	36.6	32.5	33.8	34.8	32.2	33.0	34.1	32.1
1/8/2012				32.1	32.7	31.9	32.2	32.4	31.9	32.3	33.6	31.9
1/9/2012				32.9	35.0	31.9	32.6	33.4	32.0	32.4	33.2	32.0
1/10/2012				33.9	36.4	32.0	33.6	34.7	32.6	32.7	33.9	32.0
1/11/2012				33.1	35.0	31.9	32.9	33.7	32.1	32.3	33.3	31.9
1/12/2012				32.2	33.3	31.9	32.2	32.5	31.9	32.2	32.9	31.9
1/13/2012				32.0	32.2	31.9	32.1	32.4	31.9	32.2	33.5	31.9
1/14/2012				32.0	32.2	31.9	32.2	32.5	31.9	32.2	32.9	31.9
1/15/2012				32.7	34.8	31.9	32.6	33.8	32.0	32.5	33.7	31.9
1/16/2012				32.3	33.3	31.9	32.3	32.7	31.9	32.6	34.3	31.9
1/17/2012				32.0	32.1	31.9	32.1	32.3	32.0	32.4	34.3	32.0
1/18/2012				33.3	35.9	31.9	32.5	33.4	32.1	33.3	34.5	32.4
1/19/2012				34.9	37.2	33.1	33.7	34.5	33.0	33.2	34.7	32.1
1/20/2012				36.8	38.6	34.9	35.2	36.6	34.2	33.9	35.0	33.0
1/21/2012				34.0	38.4	31.9	33.2	36.2	31.9	32.5	33.8	32.0
1/22/2012	32.2	34.3	32.2	32.3	33.5	31.9	32.1	32.4	31.9	32.3	32.7	31.9
1/23/2012	34.0	34.7	32.1	33.3	34.7	32.0	32.7	33.4	32.2	32.7	33.1	32.4
1/24/2012	33.7	36.0	32.1	33.6	35.4	31.9	32.8	33.6	31.9	32.7	33.5	32.0
1/25/2012	34.7	37.9	33.2	35.1	38.5	32.7	33.9	35.5	32.8	34.0	36.8	32.2
1/26/2012	35.4	39.5	33.9	36.1	40.0	33.4	34.9	37.3	33.5	34.8	38.4	32.5
1/27/2012	36.2	37.8	33.3	36.3	39.6	33.7	34.6	36.2	32.9	35.2	37.6	33.6
1/28/2012	32.7	33.8	31.6	32.7	34.8	31.9	32.2	32.7	31.9	32.5	33.5	31.9
1/29/2012	32.4	36.0	32.0	33.1	35.5	31.9	32.2	32.5	31.9	32.5	33.7	32.0
1/30/2012	35.0	38.9	34.1	36.2	39.7	33.8	34.3	36.2	32.6	34.2	37.0	32.4
1/31/2012	36.7	38.5	33.1	36.7	39.8	34.2	34.6	36.3	33.1	35.1	38.2	32.3
2/1/2012	35.6	37.5	33.2	35.9	39.3	34.0	34.1	35.7	33.0	34.9	37.8	32.7
2/2/2012	33.1	36.4	31.7	33.8	37.3	31.9	32.5	33.5	31.9	33.1	34.8	32.0
2/3/2012	32.3	32.8	31.9	32.2	33.4	31.9	32.1	32.6	31.9	32.1	33.2	31.9
2/4/2012	32.0	33.3	32.0	32.1	32.6	31.9	32.1	32.5	31.9	32.1	32.6	32.0
2/5/2012	32.0	33.5	31.9	32.1	32.8	31.9	32.1	32.5	31.9	32.1	32.6	31.9
2/6/2012	32.1	34.1	31.9	32.1	32.7	31.9	32.1	32.4	31.9	32.2	32.7	31.9
2/7/2012	32.6	36.7	32.6	33.8	35.5	32.0	32.4	33.2	32.0	33.1	34.1	32.3
2/8/2012	35.3	38.2	32.4	35.3	39.0	32.8	33.7	35.2	32.7	33.1	34.6	32.0
2/9/2012	33.1	38.5	32.0	35.5	39.4	32.3	34.0	36.0	32.5	33.9	37.4	32.0
2/10/2012	35.2	39.8	32.6	36.7	41.1	33.6	34.8	37.3	33.3	35.0	39.2	32.1
2/11/2012	35.5	38.6	32.7	36.5	39.9	33.6	34.7	36.6	33.2	35.2	38.7	32.1
2/12/2012	35.7	38.5	32.6	36.8	40.4	33.9	35.2	37.2	33.5	35.6	39.2	32.3
2/13/2012	35.5	35.5	32.7	36.1	39.2	34.1	34.4	35.4	33.0	35.1	37.5	33.4
2/14/2012	32.4	37.8	32.4	35.7	39.8	33.6	33.9	36.5	32.5	34.9	38.5	33.0
2/15/2012	33.5	33.5	32.0	33.6	36.1	31.9	32.7	33.5	32.1	32.8	34.3	32.0
2/16/2012				33.1	36.6	31.9	32.4	33.7	31.9	32.6	34.3	31.9
2/17/2012				33.3	36.4	31.9	32.4	33.4	31.9	32.5	33.5	31.9
2/18/2012	33.4	38.1	32.1	34.7	38.2	32.1	33.7	35.9	32.2	32.9	34.0	32.0
2/19/2012	32.7	34.7	32.2	34.7	38.9	32.7	33.3	35.2	32.2	33.6	36.5	32.2
2/20/2012	32.6	39.1	32.3	35.9	40.2	32.9	33.9	36.4	32.3	34.5	38.3	32.2
2/21/2012	33.5	40.2	32.3	36.6	40.3	33.5	34.6	37.1	32.8	34.9	39.4	32.2
2/22/2012	34.8	40.9	32.7	37.6	42.5	34.2	35.6	38.7	33.6	35.9	41.4	32.2
2/23/2012	32.6	39.6	32.0	37.7	42.3	34.3	35.8	38.9	33.8	36.3	41.7	32.3
2/24/2012	33.7	41.7	32.1	37.6	42.7	33.5	35.5	39.1	33.0	36.1	42.1	32.1
2/25/2012	36.9	39.4	33.0	37.9	42.8	34.8	35.9	38.8	34.3	36.9	41.9	33.2
2/26/2012				34.4	38.6	31.9	32.8	33.9	31.9	33.0	34.9	31.9
2/27/2012				34.3	38.1	32.0	32.4	33.8	32.0	33.1	35.3	32.0
2/28/2012	32.2	34.2	31.6	33.9	38.1	31.9	32.2	32.6	31.9	32.8	34.5	31.9
2/29/2012	32.3	32.7	31.9	33.7	36.6	31.9	32.7	33.9	32.0	33.3	34.9	32.4

	LV	Below Intal	кe	LV	County Ro	oad	Par	ker at Con	duit	Wa	lker at Mou	th
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
3/1/2012				33.4	37.4	31.9	32.4	33.4	31.9	33.4	36.6	32.2
3/2/2012				34.3	38.7	31.9	32.5	33.6	31.9	33.8	37.8	31.9
3/3/2012				36.2	41.9	31.9	33.7	37.0	31.9	34.5	39.2	32.0
3/4/2012	33.9	42.3	32.1	38.1	43.9	33.5	35.5	39.4	33.0	36.2	43.1	32.1
3/5/2012	35.2	42.2	32.5	38.7	44.4	34.4	36.2	40.1	33.6	36.9	44.1	32.1
3/6/2012				37.2	42.4	33.0	35.2	38.1	32.5	35.5	39.8	32.1
3/7/2012				33.0	36.1	31.9	32.4	33.2	31.9	32.5	34.0	31.9
3/8/2012				34.7	40.2	31.9	32.6	33.6	31.9	33.3	36.9	31.9
3/9/2012							34.6	38.5	32.1	35.2	41.5	31.9
3/10/2012							36.4	41.0	33.4	37.0	45.1	32.0
3/11/2012							37.1	41.9	34.4	39.1	46.8	33.5
3/12/2012							36.5	40.8	33.5	38.4	45.9	32.7
3/13/2012							36.8	41.2	34.0	37.3	43.2	33.5

# 8.2 DAILY AVERAGE, MAXIMUM, AND MINIMUM WATER TEMPERATURE (°F) AT RUSH CREEK AT DAMSITE, MGORD TOP, MGORD BOTTOM, AND UPPER RUSH.

	R	ush Damsite	•	M	IGORD TO	P	MGG	ORD BOTT	OM		Upper Rush	
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
4/1/2011	37.6	37.9	37.4	39.9	40.5	39.5	40.9	45.2	38.7	42.9	48.4	39.6
4/2/2011	38.2	38.5	37.9	40.4	42.3	39.3	41.6	45.4	38.9	42.0	45.9	39.0
4/3/2011	38.4	38.5	38.2	39.2	39.5	38.8	39.9	43.9	38.0	40.0	44.6	37.1
4/4/2011	38.2	38.5	37.9	39.3	39.5	39.1	40.2	44.4	38.1	40.8	45.4	38.0
4/5/2011	38.6	38.8	38.5	39.6	39.9	39.3	40.7	44.7	38.6	42.4	46.8	39.7
4/6/2011	38.9	39.1	38.8	40.5	42.2	39.5	41.0	44.4	38.7	42.2	46.1	38.9
4/7/2011	38.6	39.1	38.0	40.2	41.1	40.0	39.8	42.3	38.4	39.6	42.2	38.4
4/8/2011	36.7	37.9	36.2	39.7	39.9	39.5	39.3	42.2	37.9	39.1	41.7	37.7
4/9/2011	35.8	36.1	35.5	39.8	40.1	39.5	40.1	43.7	38.3	40.0	43.4	38.2
4/10/2011	35.7	36.2	35.2	39.8	40.2	39.5	40.5	44.2	38.5	40.8	44.5	38.2
4/11/2011	36.3	36.8	36.1	40.5	41.8	39.8	41.2	44.3	38.9	42.4	46.1	40.0
4/12/2011	36.9	37.3	36.6	41.6	42.7	41.0	42.1	45.6	39.9	43.5	47.1	41.2
4/13/2011	37.3	37.3	37.2	41.1	42.1	40.4	41.0	42.7	39.6	41.4	43.2	39.5
4/14/2011	36.8	37.2	36.3	40.7	40.9	40.5	41.3	45.1	39.4	41.4	45.9	39.0
4/15/2011	37.6	38.0	37.3	40.7	41.0	40.5	41.7	44.8	39.8	42.5	46.6	40.2
4/16/2011	38.4	38.7	38.1	41.1	41.5	40.7	42.2	45.7	40.1	43.8	47.6	41.0
4/17/2011	39.2	39.7	38.8	41.8	42.6	41.1	42.8	46.8	40.4	45.1	49.0	42.3
4/18/2011	40.1	40.4	39.8	43.4	44.7	41.8	43.9	47.6	41.0	44.7	48.2	42.3
4/19/2011	40.4	40.7	40.3	42.8	43.3	42.3	43.6	47.0	41.8	44.1	47.4	42.2
4/20/2011	40.8	40.9	40.8	44.1	44.6	43.1	44.4	48.2	42.2	44.5	48.2	41.7
4/21/2011	40.7	40.9	40.6	43.1	43.9	42.6	43.6	47.4	41.3	43.7	47.6	41.7
4/22/2011	40.5	40.8	40.3	43.2	43.6	42.9	43.3	46.3	41.7	43.7	46.8	41.8
4/23/2011	40.5	40.7	40.4	43.5	43.7	43.2	44.0	46.7	42.6	44.5	46.8	43.1
4/24/2011	40.7	41.0	40.5	43.9	44.6	43.2	44.3	48.0	42.4	44.8	48.5	42.8
4/25/2011	41.1	41.4	41.0	44.1	44.6	43.8	44.4	48.6	42.3	44.7	49.0	42.6
4/26/2011	41.3	41.6	41.0	43.8	44.0	43.6	44.4	48.3	42.3	44.5	49.0	42.0
4/27/2011	41.6	42.0	41.4	43.9	45.4	43.5	44.7	48.6	42.4	45.0	49.9	42.2
4/28/2011	42.2	42.5	42.0	45.4	46.0	44.8	45.8	49.5	43.3	46.1	50.4	43.0
4/29/2011	42.1	42.4	41.9	44.6	45.2	44.3	44.9	48.7	42.9	44.8	48.6	42.8
4/30/2011	41.5	41.9	41.4	44.2	44.3	44.0	44.5	48.3	42.5	44.5	48.5	42.1

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	Rı	ush Damsite	;	М	GORD TO	P	MGO	RD BOTT	OM		Upper Rus	h
Date	Mean	Max	Min									
5/1/2011	41.2	41.5	41.0	44.1	44.2	44.0	44.6	40.0	40.6	44.0	40.1	42.2
5/1/2011 5/2/2011	41.3 41.5	41.5 42.1	41.0 41.2	44.1 44.5	44.3 45.8	44.0 44.1	44.6 45.1	48.0 47.8	42.6 43.2	44.8 45.6	49.1 49.5	42.3 42.9
5/3/2011	42.4	43.1	42.2	45.2	45.8 45.9	44.1	46.0	48.4	44.3	47.3	50.8	45.2
5/4/2011	43.1	43.5	42.8	44.8	45.0	44.6	45.4	47.8	44.0	47.2	50.9	45.0
5/5/2011	43.6	44.1	43.3	45.3	46.5	44.7	45.9	48.4	44.2	47.8	51.4	45.0
5/6/2011	44.5	45.1	44.2	45.1	46.2	44.6	45.7	48.0	44.1	48.7	51.8	46.3
5/7/2011	45.3	45.6	45.1	45.4	47.8	44.8	45.7	47.5	44.5	48.5	50.8	46.8
5/8/2011	45.4	45.6	45.3	47.6	49.6	46.1	47.7	50.6	45.3	49.0	51.2	46.4
5/9/2011	44.4	45.4	43.6	46.2	46.9	45.7	45.8	47.0	44.9	46.6	48.5	45.1
5/10/2011	43.1	43.6	42.9	46.5	47.2	45.8	46.7	49.9	45.0	47.0	51.1	44.7
5/11/2011	42.8	43.3	42.6	46.7	47.4	46.0	47.1	49.7	45.4	48.0	51.8	45.7
5/12/2011	43.5	44.1	43.2	46.8	48.1	46.1	47.5	49.1	45.9	49.6	52.8	47.4
5/13/2011	44.3	44.9	44.1	47.1	49.7	46.0	47.6	49.6	45.6	49.8	52.9	47.7
5/14/2011	45.1	45.3	44.9	48.9	50.6	46.3	49.0	52.3	45.9	49.9	53.3	47.9
5/15/2011	44.5	45.3	43.8	49.3	49.8 49.1	48.7	49.1	50.8 49.9	47.8	48.9	51.0	47.6
5/16/2011 5/17/2011	43.4 43.0	43.7 43.2	43.2 42.8	48.3 48.3	49.1	47.7 47.9	48.4 48.3	49.9 49.8	47.0 47.4	48.6 48.1	51.2 49.7	47.2 47.0
5/18/2011	42.5	42.8	42.8	47.7	47.8	47.6	47.7	49.8	47.4	47.8	50.5	46.5
5/19/2011	42.3	42.3	42.3	47.7	47.8	47.4	47.7	49.5	46.8	47.8	50.0	46.7
5/20/2011	42.2	42.5	41.9	47.4	47.6	47.3	48.0	50.3	46.6	48.5	52.0	46.2
5/21/2011	42.7	43.2	42.5	48.3	49.6	47.6	48.7	50.9	47.2	49.8	52.8	47.8
5/22/2011	43.3	43.7	43.1	48.2	49.0	47.7	48.6	49.8	47.4	49.5	51.6	47.7
5/23/2011	43.8	44.0	43.6	47.8	48.4	47.3	48.1	50.4	46.6	49.6	53.0	47.4
5/24/2011	43.9	44.1	43.6	47.8	48.4	47.4	48.3	50.2	46.7	49.8	52.9	47.6
5/25/2011	44.3	44.5	44.2	49.2	50.5	47.8	49.2	52.6	47.2	49.7	52.9	47.4
5/26/2011	44.4	44.8	44.3	48.8	48.9	48.7	49.1	51.5	48.1	49.4	53.3	47.6
5/27/2011	44.9	45.3	44.8	49.5	50.4	48.8	49.9	52.4	48.2	50.3	53.7	48.0
5/28/2011	45.4	45.5	45.3	49.9	50.4	49.4	50.1	52.4	48.7	50.3	53.3	48.7
5/29/2011	44.7	45.5	44.2	49.7	50.1	49.4	49.6	50.8	48.6	49.4	51.1	48.1
5/30/2011	43.9	44.1	43.7	49.5	50.5	49.1	49.7	51.6	48.3	49.8	52.6	47.6
5/31/2011	43.9	44.2	43.8	49.6	50.5	48.9	49.5	51.6	47.6	49.3	52.1	47.2
6/1/2011	44.0	44.1	43.9	48.8	49.2	48.4	48.6	51.0	47.1	48.4	51.7	46.5
6/2/2011	43.6	43.8	43.5	48.6	49.2	48.2	48.8	51.0	47.4	48.7	52.0	46.8
6/3/2011 6/4/2011	43.4 43.8	43.6 44.0	43.3 43.6	49.1 49.1	49.6 49.3	48.8 49.0	49.1 49.2	50.6 50.0	48.0 48.7	49.0 49.2	51.1 50.5	47.3 48.5
6/5/2011	44.1	44.5	44.0	49.1	50.0	48.9	50.0	52.1	48.7	50.4	53.2	48.7
6/6/2011	44.6	44.8	44.6	49.3	49.8	49.1	49.8	52.3	48.6	50.4	53.2	49.0
6/7/2011	44.6	44.8	44.4	49.2	49.4	48.9	49.7	52.0	48.5	50.3	53.5	48.6
6/8/2011	44.8	45.2	44.5	49.5	50.1	49.0	50.2	52.8	48.7	51.1	54.6	48.8
6/9/2011	45.3	45.8	45.0	49.1	50.2	48.7	49.8	52.1	48.2	52.1	55.0	49.9
6/10/2011	46.0	46.5	45.8	49.3	50.2	48.5	50.1	52.3	48.3	52.7	55.8	50.3
6/11/2011	46.5	46.9	46.3	49.3	50.6	48.7	49.7	51.6	48.2	52.8	55.3	50.9
6/12/2011	47.3	47.9	47.0	49.5	50.5	48.7	50.3	52.3	48.3	52.9	55.3	51.1
6/13/2011	48.2	48.9	47.9	49.4	50.7	48.9	50.2	52.0	48.6	53.5	55.9	51.4
6/14/2011	49.1	49.6	48.8	49.7	50.2	49.2	50.4	52.5	48.9	55.6	58.2	53.6
6/15/2011	50.0	50.5	49.7	49.6	50.6	49.0	50.2	52.1	48.8	55.5	57.4	53.9
6/16/2011	50.8	51.2	50.6	49.8	51.2	49.1	50.3	53.2	48.7	55.7	58.5	53.8
6/17/2011	50.8	51.2	50.4	49.9	51.1	49.3	50.3	52.3	48.9	54.9	57.3	53.4
6/18/2011	50.8	51.1	50.5	49.9	50.4	49.4	50.4	52.0	49.2	55.3	57.2	53.5
6/19/2011	51.3	51.6	51.1	50.1	51.1	49.7	50.5	51.9	49.4	54.9	57.4	52.6
6/20/2011 6/21/2011	51.1 51.4	51.6 52.0	50.8 51.1	50.1 50.2	50.4 50.9	49.8 49.8	50.5 50.7	51.9 52.0	49.6 49.7	54.8 55.6	57.4 58.2	53.0 53.8
6/21/2011	51.4	52.0 52.9	51.1 52.1	50.2 50.5	50.9 51.1	49.8 50.0	50.7	52.0 52.5	49.7 49.8	55.6 56.7	58.2 59.0	53.8 55.1
6/22/2011	53.3	53.8	52.1 52.9	50.5	51.1	30.0 49.7	50.9	53.1	49.8 49.5	56.7 56.7	59.0 59.0	55.1 55.2
6/24/2011	53.8	54.0	53.6	50.6	52.1	49.8	51.0	53.2	49.5	56.3	58.7	54.6
6/25/2011	53.8	54.1	53.5	50.9	51.7	50.3	51.2	53.2	49.9	56.5	59.0	54.7
6/26/2011	53.8	54.0	53.5	50.9	52.2	50.2	51.3	53.1	50.1	56.2	58.2	54.6
6/27/2011	53.8	54.1	53.5	51.3	53.0	50.3	51.7	54.2	50.1	56.4	58.9	54.8
6/28/2011	54.2	54.5	54.1	53.2	59.4	50.3	53.4	60.8	50.2	56.8	61.8	54.4
6/29/2011	53.9	54.5	53.2	51.7	53.6	50.4	51.9	54.2	50.1	55.4	57.1	54.2
6/30/2011	52.3	53.1	51.9	51.8	52.4	51.1	52.2	53.7	50.7	55.8	57.9	54.0

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	Rush Damsite			М	GORD TO	P	MGC	RD BOTT	ОМ	Ţ	Jpper Rush	
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
7/1/2011	52.2	50.0	50.0	51.0	52.0	51.0	50.0	52.0	51.0	56.6	50.1	54.6
7/1/2011 7/2/2011	52.3 52.9	52.8 53.5	52.0 52.7	51.8 51.9	52.9 53.1	51.2 51.2	52.3 52.4	53.9 53.9	51.2 51.1	56.6 57.1	59.1 59.4	54.6 55.3
7/3/2011	53.9	53.5 54.5	53.6	52.2	53.1	51.6	52.4 52.6	53.9 54.4	51.1	57.4	59.4 59.7	55.5 56.0
7/4/2011	54.8	55.3	54.5	52.3	55.3	51.4	52.7	56.3	51.3	57.4 57.2	60.3	55.6
7/5/2011	55.5	55.7	55.4	52.7	53.4	52.4	52.7	54.0	52.1	56.7	58.2	55.7
7/6/2011	55.6	55.9	55.4	53.1	55.2	52.1	53.4	55.1	52.0	56.4	58.1	55.0
7/7/2011	55.9	56.2	55.7	53.1	54.2	51.8	53.3	54.8	51.8	56.0	58.2	54.1
7/8/2011	55.9	56.2	55.6	53.4	54.2	52.6	53.6	55.0	52.2	55.8	58.1	54.1
7/9/2011	56.0	56.2	55.7	53.6	55.2	52.5	53.8	56.1	52.7	55.8	59.2	54.3
7/10/2011	55.8	56.3	55.4	53.8	54.9	53.0	53.9	55.0	52.9	55.5	57.4	54.1
7/11/2011	55.8	56.0	55.5	53.9	55.7	53.1	54.1	56.4	52.9	55.4	58.5	53.7
7/12/2011	55.6	56.0	55.3	54.1	55.1	53.3	54.3	55.8	53.0	55.3	57.6	53.7
7/13/2011	55.1	55.6	54.8	54.2	55.8	52.9	54.4	56.7	52.8	54.9	57.8	52.8
7/14/2011	54.7	55.1	54.4	54.0	55.4	52.8	54.3	56.5	52.8	54.7	57.9	52.8
7/15/2011	55.0	55.3	54.8	53.9	54.9	52.9	54.2	56.0	52.8	54.6	57.2	52.7
7/16/2011	55.1	55.3	54.8	53.8	55.4	52.7	54.1	56.5	52.4	54.6	57.9	52.3
7/17/2011	55.3	55.6	55.1	54.1	55.8	52.7	54.3	56.9	52.7	55.5	59.3	53.2
7/18/2011	55.4	55.7	55.2	54.1	55.3	53.1	54.3	56.7	52.9	56.1	59.6	53.9
7/19/2011	55.7	56.0	55.4	54.3	56.2	52.6	54.6	56.4	52.5	56.7	59.7	55.0
7/20/2011	55.6	56.0	55.3	54.8	57.7	52.7	55.1	58.6	52.5	57.5	60.9	55.4
7/21/2011	55.6	55.9	55.2	54.8	56.4	52.8	55.2	57.5	52.6	57.8	60.4	55.3
7/22/2011	55.8	56.2	55.5	54.8	55.9	53.5	55.2	57.0	53.2	58.3	60.8	55.7
7/23/2011	56.1	56.6	55.8	54.8	55.4	54.0	55.2	56.6	53.5	59.0	61.8	56.9
7/24/2011	56.9	57.3	56.7	54.9	55.9	53.4	55.2	57.2	53.4	59.0	61.5	57.3
7/25/2011	57.4	57.7	57.1	55.0	57.5	53.6	55.4	58.6	53.2	59.0	62.0	57.0
7/26/2011	57.3	57.7	57.0	55.2	56.2	53.9	55.5	57.4	54.0	59.2	61.9	57.3
7/27/2011	57.2	57.5	56.8	55.2	56.0	54.2	55.6	57.3	54.0	59.4	61.7	57.7
7/28/2011	57.2	57.6	56.8	55.3	56.4	54.6	55.7	57.1	54.3	59.6	62.0	58.2
7/29/2011	57.7	58.1	57.4	55.4	56.1	55.0	55.7	56.9	54.8	59.6	61.9	58.1
7/30/2011	57.9	58.1	57.7	55.5	56.4	54.3	55.7	57.6	54.1	59.4	61.3	58.0
7/31/2011	57.8	58.0	57.6	55.5	57.0	54.3	55.7	57.0	54.2	59.6	60.9	58.2
8/1/2011	57.6	57.9	57.3	55.4	56.3	54.7	55.8	57.1	54.8	60.5	62.7	59.0
8/2/2011	57.6	57.8	57.3	55.7	56.6	54.3	56.0	58.1	54.0	61.1	63.3	59.7
8/3/2011	57.6	57.9	57.3	56.0	57.0	54.5	56.3	58.5	54.1	61.1	63.5	59.6
8/4/2011	57.7	57.9	57.4	56.0	57.4	54.8	56.3	58.8	54.5	60.8	63.4	59.1
8/5/2011	57.5	57.9	57.1	56.0	57.4	54.3	56.4	58.6	54.0	60.4	63.0	58.5
8/6/2011	57.3	57.7	56.9	56.2	57.7	54.5	56.5	59.0	54.3	60.2	62.8	58.1
8/7/2011	57.1	57.6	56.7	56.3	57.7	54.7	56.6	58.7	54.6	59.9	62.6	58.0
8/8/2011	57.0	57.5	56.5	56.2	57.4	55.1	56.6	58.5	54.7	59.8	62.7	57.7
8/9/2011	57.0	57.5 57.7	56.4	56.3	57.6	55.5 55.2	56.6	58.2	55.0	59.7	62.4	57.9
8/10/2011 8/11/2011	57.0 57.2	57.7 57.9	56.4	56.4	57.2	55.2	56.8	58.9 58.6	55.1	59.7	62.7	57.8 57.5
8/11/2011	57.2 57.0	57.4	56.5 56.6	56.4 56.6	57.5 57.4	55.5 55.4	56.8 56.9	59.4	55.0 55.0	59.4 59.3	62.6 62.8	56.9
8/13/2011	57.3	57.4 57.6	57.0	56.8	57. <del>4</del> 57.9	56.0	57.1	59.4	55.6	59.0	62.7	56.8
8/14/2011	57.5 57.7	58.0	57.4	56.9	59.1	55.8	57.3	60.5	55.5	58.6	62.7	56.1
8/15/2011	57.8	58.0	57.5	57.1	58.6	55.7	57.4	59.6	55.4	58.1	61.3	55.5
8/16/2011	57.4	58.0	56.9	57.5	58.9	55.9	57.8	59.9	55.6	57.9	61.9	55.2
8/17/2011	57.0	57.6	56.5	57.5	58.9	56.6	57.8	59.7	55.5	57.8	61.9	54.7
8/18/2011	57.0	57.5	56.6	57.5	58.6	56.5	58.0	59.6	56.4	58.1	61.8	55.5
8/19/2011	57.4	57.9	57.0	57.7	58.8	56.8	58.1	59.6	56.4	58.3	61.9	55.9
8/20/2011	57.6	58.0	57.2	57.7	58.8	56.6	58.1	60.9	56.1	58.2	62.9	55.3
8/21/2011	57.8	58.1	57.5	58.0	59.5	56.6	58.3	61.5	55.9	58.2	63.1	54.7
8/22/2011	57.7	58.1	57.3	57.9	60.0	56.8	58.2	61.0	56.0	58.1	62.1	54.8
8/23/2011	58.1	58.7	57.4	58.0	60.1	57.1	58.6	60.7	56.8	58.9	63.0	56.2
8/24/2011	58.8	59.7	58.1	58.2	59.3	57.3	58.7	61.1	56.7	58.9	63.3	56.2
8/25/2011	59.8	60.5	59.1	58.6	61.5	56.7	58.8	62.7	56.2	58.9	63.5	55.4
8/26/2011	60.4	61.1	59.8	59.1	61.8	56.8	59.7	63.2	56.3	59.4	63.6	55.9
8/27/2011	61.0	61.5	60.6	59.1	60.7	57.5	59.7	63.2	57.0	60.1	64.6	57.0
8/28/2011	61.0	61.6	60.3	59.2	60.4	57.6	59.6	63.1	57.2	59.7	64.6	56.7
8/29/2011	61.2	61.8	60.5	58.9	61.3	57.5	59.4	62.6	56.9	59.3	63.6	56.4
8/30/2011	60.8	61.7	59.7	59.6	62.6	57.5	59.9	63.1	57.0	59.5	63.9	56.2
8/31/2011	60.1	61.0	58.9	59.9	61.1	58.4	60.0	63.5	56.9	59.4	65.3	55.5

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	Rı	ısh Damsite		М	GORD TO	P	MGC	RD BOTT	ТОМ	1	Upper Rusl	h
Date	Mean	Max	Min									
9/1/2011	59.5	60.5	58.5	59.8	60.8	58.4	59.8	63.3	57.5	59.3	65.0	55.9
9/2/2011	58.7	59.8	57.7	59.9	60.9	59.0	60.2	62.1	59.0	59.7	64.2	57.5
9/3/2011	58.2	59.1	57.2	60.1	60.9	59.3	60.5	62.5	59.4	60.0	64.7	57.5
9/4/2011 9/5/2011	58.3 58.5	59.1 59.1	57.4 57.9	60.1 60.5	61.0 61.3	59.3 59.4	60.5 60.4	62.5 63.7	59.0 58.7	60.1 59.9	64.3 64.5	57.7 57.2
9/6/2011	57.6	58.5	56.6	60.2	61.1	59.4 59.2	60.4	63.5	59.0	60.1	65.3	57.3
9/7/2011	57.7	58.5	56.8	60.4	61.1	59.7	60.6	62.4	59.6	60.0	64.3	57.5
9/8/2011	58.5	59.1	57.9	60.7	61.3	59.9	60.8	64.4	58.9	60.2	65.7	57.3
9/9/2011	58.0	58.9	57.2	60.6	61.2	59.4	60.3	62.6	59.1	59.4	63.6	57.9
9/10/2011	57.2	57.9	56.6	60.6	61.4	60.1	60.4	63.6	59.1	59.3	62.9	56.9
9/11/2011	56.4	57.1	55.7	60.9	62.1	59.7	60.3	62.8	59.0	59.1	63.1	57.4
9/12/2011	55.2	55.6	54.6	60.7	61.3	60.2	60.8	63.8	58.8	59.7	64.2	56.7
9/13/2011	55.3	55.7	54.6	60.8	61.6	60.2	60.8	63.2	59.7	59.9	63.9	58.0
9/14/2011	54.9	55.9	53.7	60.6	60.9	60.3	60.9	64.6	58.9	60.0	66.0	56.3
9/15/2011	55.3	56.2	54.4	61.4	62.7	60.2	61.1	64.0	59.4	59.7	65.5	56.9
9/16/2011	56.2	56.7	55.7	61.3	62.6	60.0	61.3	63.6	59.1	60.1	64.1	57.7
9/17/2011	55.5	56.5	54.5	60.7	61.2	60.3	60.8	64.6	58.6	59.6	65.3	55.8
9/18/2011 9/19/2011	55.0	55.7	54.0 54.0	61.0	61.4 61.3	60.4 60.1	61.1	65.1 64.8	59.0	59.9 59.7	66.1 65.8	56.0
9/19/2011	54.8 54.8	55.5 55.6	53.9	60.8 60.5	60.9	60.1	60.8 60.4	64.6	58.9 58.8	59.7 59.4	65.4	56.3 56.3
9/21/2011	55.0	55.6	54.1	60.9	61.1	60.4	60.9	65.0	59.2	59.8	65.6	56.4
9/22/2011	54.9	55.8	54.0	60.3	60.8	60.0	60.7	64.2	58.7	59.8	65.4	56.5
9/23/2011	55.2	55.7	54.3	60.5	60.8	60.3	60.4	63.6	58.9	59.2	63.9	56.1
9/24/2011	54.9	55.5	54.3	60.5	61.2	60.2	60.1	62.1	58.9	58.9	62.1	56.7
9/25/2011	54.9	55.3	54.5	60.4	61.2	60.0	60.1	62.5	58.6	58.9	62.9	56.3
9/26/2011	54.6	55.3	53.7	60.3	60.9	60.0	60.5	64.1	58.6	59.6	65.3	56.3
9/27/2011	54.5	55.3	53.6	60.3	60.6	59.8	60.5	64.2	58.8	59.7	65.5	56.3
9/28/2011	54.7	55.4	53.8	60.0	60.7	59.7	60.2	64.2	58.4	59.4	65.2	56.0
9/29/2011	55.0	55.8	54.0	60.0	60.7	59.4	60.2	64.2	58.4	59.4	65.3	56.1
9/30/2011	55.0	55.6	54.2	60.0	60.8	59.4	59.6	63.2	58.0	58.5	63.3	55.7
10/1/2011	55.0		54.6	60.0	(1.2	60.5	60.0	(2.7	50.5	50.6	(2.6	561
10/1/2011	55.0	55.5	54.6	60.9	61.2	60.5	60.0	62.7	58.5	58.6	62.6	56.1
10/2/2011 10/3/2011	55.3 55.1	55.7 55.6	55.0 54.8	60.0 59.1	60.4 59.5	59.6 58.9	59.5 58.6	61.9 60.3	58.3 57.6	58.8 57.6	62.5 60.9	57.1 56.2
10/3/2011	54.2	54.7	53.8	58.5	58.9	58.2	58.2	60.4	57.0	57.0	60.6	55.4
10/5/2011	52.4	53.6	51.3	58.0	58.7	57.5	56.9	58.9	55.6	55.2	58.2	53.4
10/6/2011	50.6	51.2	49.7	57.2	57.6	57.0	56.0	57.4	55.2	53.9	56.7	52.3
10/7/2011	49.3	49.8	48.5	56.4	56.9	56.1	56.0	58.4	54.7	54.4	58.8	51.9
10/8/2011	49.2	49.9	48.5	56.1	56.1	55.8	55.8	58.1	54.8	54.9	58.8	52.6
10/9/2011	49.2	49.9	48.5	55.7	56.0	55.4	55.6	57.6	54.6	54.9	58.5	52.9
10/10/2011	49.5	50.0	49.0	55.7	56.1	55.4	55.4	56.4	54.6	54.8	56.7	53.3
10/11/2011	49.9	50.5	49.2	55.5	55.9	55.2	55.5	56.8	54.7	55.2	57.9	53.9
10/12/2011	49.9	50.6	49.2	55.5	55.6	55.2	55.4	56.8	54.7	55.1	57.7	53.6
10/13/2011	50.1	50.9	49.3	55.5	55.6	55.3	55.5	56.5	54.9	55.3	57.5	54.1
10/14/2011	50.4	51.2	49.7	55.3	55.8	55.0	55.3	56.0	54.6	55.1	56.9	53.9
10/15/2011	51.0	51.5	50.4	55.6	56.7	55.0	55.5	56.5	54.7	55.3	56.3	54.1
10/16/2011	51.4	51.8	50.9 50.4	55.4	55.8 55.6	55.0 55.2	55.3	55.9 56.2	54.8 55.0	55.3 55.3	56.3	54.6
10/17/2011 10/18/2011	51.1 50.5	51.7 51.1	50.4 49.8	55.5 55.5	55.6 55.5	55.2 55.3	55.4 55.4	56.2 56.1	55.0 55.1	55.3 55.3	56.8 56.7	54.6 54.5
10/19/2011	50.9	51.3	50.4	55.3	55.5	55.0	55.2	55.8	54.8	55.1	56.3	54.4
10/20/2011	50.3	50.8	49.6	55.3	55.4	55.0	55.2	55.8	54.9	55.0	56.4	54.3
10/21/2011	50.0	50.5	49.2	55.2	55.5	55.0	55.2	55.8	54.8	55.0	56.3	54.3
10/22/2011	49.4	49.9	48.7	55.2	55.4	55.0	55.1	55.7	54.8	54.9	56.2	54.1
10/23/2011	48.9	49.5	48.2	55.1	55.4	55.0	55.1	55.6	54.8	54.9	56.2	54.1
10/24/2011	49.3	49.8	48.9	55.0	55.2	54.9	54.9	55.4	54.7	54.7	55.6	54.1
10/25/2011	49.5	49.7	49.1	54.7	55.0	54.5	54.5	55.0	54.2	54.2	55.4	53.6
10/26/2011	48.4	49.2	47.8	54.2	54.5	54.0	53.9	54.5	53.6	53.3	54.6	52.5
10/27/2011	47.2	47.8	46.6	53.9	54.2	53.6	53.6	54.5	53.2	52.9	54.8	52.0
10/28/2011	46.8	47.4	46.1	53.6	53.9	53.5	53.4	54.5	53.0	52.8	55.0	51.8
10/29/2011	46.6	47.2	45.9	53.4	53.7	53.3	53.2	54.7	52.6	52.6	55.4	51.4
10/30/2011	46.4	47.0	45.7	53.1	53.4	53.0	53.0	54.7	52.2	52.2	55.3	50.8
10/31/2011	46.4	46.9	45.7	53.0	53.2	52.9	52.8	54.7	52.1	52.0	55.4	50.4

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	Ri	ush Damsite	;	М	GORD TO	P	MGC	RD BOTT	ОМ	Ţ	Jpper Rush	
Date	Mean	Max	Min									
11/1/2011	46.5	46.8	46.0	52.8	53.0	52.6	52.2	54.3	51.1	51.0	54.0	48.7
11/2/2011	45.1	45.8	44.5	52.8	52.6	52.0	51.4	53.4	50.6	49.7	53.3	47.9
11/3/2011	45.1	45.4	44.6	51.8	52.2	51.0	50.6	52.1	49.2	49.0	51.8	47.6
11/4/2011	44.3	45.1	43.8	50.7	50.9	50.5	49.8	51.0	49.1	48.4	50.6	47.0
11/5/2011	43.1	43.7	42.6	50.4	50.7	50.1	49.5	50.5	48.8	47.8	50.2	46.2
11/6/2011	42.9	43.2	42.5	50.0	50.7	49.8	49.4	51.0	48.7	48.2	51.0	46.6
11/7/2011	42.6	42.9	42.3	49.6	49.8	49.3	49.0	50.7	48.0	47.7	50.6	45.9
11/8/2011	41.5	42.2	40.9	49.0	49.3	48.7	48.3	50.2	47.5	46.8	50.0	45.0
11/9/2011	41.1	41.7	40.4	48.8	49.0	48.6	48.2	50.1	47.4	46.8	50.3	45.0
11/10/2011	41.0	41.4	40.4	48.4	48.7	48.3	47.9	49.3	47.1	46.8	49.5	45.0
11/11/2011	41.4	41.7	41.2	48.2	48.5	47.9	47.7	48.8	47.2	46.8	48.2	45.9
11/12/2011	41.7	42.2	41.5	47.8	48.0	47.7	47.6	49.2	46.8	47.1	50.0	45.5
11/13/2011	41.9	42.4	41.6	47.9	47.9	47.8	47.6	49.5	46.8	47.0	50.2	45.4
11/14/2011	42.1	42.5	41.7	47.6	47.7	47.5	47.3	49.2	46.5	46.7	49.8	45.2
11/15/2011	41.5	42.2	40.7	47.2	47.4	47.2	46.9	48.9	46.2	46.2	49.7	44.7
11/16/2011	41.0	41.9	40.0	47.0	47.2	46.9	46.7	48.6	46.0	46.0	49.4	44.4
11/17/2011	40.7	41.8	39.5	47.2	47.3	47.1	46.8	48.7	46.0	46.0	49.2	44.4
11/18/2011	41.8	42.1	41.6	46.4	47.1	45.5	45.3	47.1	43.4	44.2	47.1	41.7
11/19/2011	41.0	41.6	40.2	45.4	45.5	45.2	44.8	46.6	44.2	44.0	47.0	42.5
11/20/2011	39.9	40.6	38.9	45.0	45.6	44.8	44.2	44.9	43.7	43.2	44.8	42.3
11/21/2011	37.8	38.9	36.6	44.6	44.9	44.4	44.1	45.8	43.4	43.2	46.3	41.6
11/22/2011	38.6	39.6	37.8	44.7	44.8	44.6	44.2	46.0	43.6	43.4	46.6	41.9
11/23/2011	40.2	40.8	39.5	44.2	44.7	43.7	43.7	45.1	42.7	43.2	45.9	42.1
11/24/2011	40.8	41.3	40.4	43.7	44.0	43.4	43.2	44.9	42.4	42.7	45.4	41.6
11/25/2011	39.8	40.7	38.9	43.6	43.8	43.4	43.2	45.0	42.6	42.7	45.9	41.3
11/26/2011	39.2	40.2	38.2	43.5	43.6	43.4	43.2	44.9	42.5	42.7	45.8	41.1
11/27/2011	40.0	41.0	39.2	43.5	43.6	43.4	43.3	44.9	42.6	43.0	45.8	42.0
11/28/2011	40.7	41.2	39.8	43.2	43.4	43.1	42.9	44.4	42.3	42.5	45.1	41.2
11/29/2011	40.8	41.7	39.6	43.1	43.1	43.0	42.9	44.6	42.2	42.5	45.7	41.0
11/30/2011	41.2	41.6	40.6	43.1	43.1	42.8	42.5	44.0	41.4	42.0	44.2	40.3
12/1/2011	40.0	40.6	39.4	42.3	42.8	41.9	41.1	42.0	40.7	39.8	40.9	39.1
12/2/2011	38.7	39.5	38.2	41.6	41.9	41.3	41.0	42.5	40.0	40.0	42.8	38.6
12/3/2011	37.5	38.1	37.1	41.2	41.4	41.0	40.4	41.9	39.9	39.2	41.9	38.0
12/4/2011	36.1	36.9	35.6	40.7	41.0	40.4	40.2	41.8	39.5	39.2	42.3	37.8
12/5/2011	35.7	36.1	35.4	40.4	40.6	40.2	39.8	41.5	39.2	38.9	41.6	37.6
12/6/2011	35.0	35.6	34.5	39.9	40.2	39.8	39.5	41.2	38.9	38.6	41.8	37.2
12/7/2011	34.8	35.2	34.4	39.8	39.9	39.7	39.4	41.0	38.9	38.8	41.8	37.4
12/8/2011 12/9/2011	35.2	35.7	34.9	39.8	39.9	39.6	39.4 39.1	40.8	38.8	38.8	41.5 41.2	37.7 36.7
	34.7	35.6	34.1	39.5	39.7	39.3		40.6 40.2	38.4	38.2		
12/10/2011 12/11/2011	34.0	34.5 34.1	33.6	39.4 39.2	39.5 39.4	39.3	38.9		38.3 38.2	37.9	40.5	36.5 36.7
12/11/2011	33.9 33.8	34.1	33.6 33.5	38.8	39.4	39.1 38.4	38.7 38.4	40.3 39.5	38.0	37.8 37.7	40.3 39.9	36.4
12/13/2011	34.0	34.1	33.7	38.5	38.7	38.3	38.1	39.7	37.6	37.5	40.0	36.4
12/14/2011	33.7	34.1	33.4	38.4	38.7	37.8	37.9	39.4	37.0	37.3	39.9	35.7
12/15/2011	33.8	33.9	33.7	38.7	39.1	38.2	38.2	39.5	37.4	37.6	39.7	36.3
12/16/2011	33.9	34.1	33.7	38.9	39.1	38.8	38.6	39.9	38.1	38.0	40.4	36.8
12/17/2011	33.7	34.1	33.3	38.2	39.0	37.3	37.9	39.4	36.9	37.1	39.9	35.8
12/18/2011	33.5	33.8	33.3	37.5	37.9	37.0	37.2	39.0	36.2	36.7	39.7	35.0
12/19/2011	33.7	34.0	33.5	37.7	38.1	37.2	37.4	38.7	36.5	37.0	39.3	35.5
12/20/2011	33.7	34.0	33.4	37.9	38.2	37.2	37.5	39.1	36.8	36.8	39.7	35.5
12/21/2011	33.5	33.7	33.3	37.7	38.1	37.1	37.2	38.9	36.4	36.6	39.7	35.3
12/22/2011	33.2	33.7	32.9	38.1	38.2	37.4	37.4	39.1	36.7	36.1	39.1	34.6
12/23/2011	32.8	33.1	32.5	37.4	38.1	36.6	36.9	38.7	35.7	35.8	38.8	33.9
12/24/2011	32.8	33.0	32.5	37.5	38.0	37.2	37.1	38.5	36.2	36.2	39.1	34.7
12/25/2011	32.8	33.1	32.5	37.8	38.2	37.3	37.4	39.4	36.7	36.8	40.1	35.3
12/26/2011	33.0	33.3	32.8	37.8	38.2	37.4	37.4	38.9	36.5	36.8	39.7	35.3
12/27/2011	33.2	33.4	33.0	38.1	38.2	38.0	37.8	39.5	37.2	37.4	40.4	36.0
12/28/2011	33.5	33.7	33.3	38.2	38.3	38.0	38.2	39.6	37.4	38.2	40.5	36.6
12/29/2011	33.9	34.1	33.8	38.1	38.3	37.8	38.1	39.6	37.3	38.3	40.6	37.0
12/30/2011	34.2	34.4	34.0	37.6	38.2	36.7	37.5	39.3	35.9	37.5	40.2	35.6
12/31/2011	34.6	35.0	34.4	37.2	37.5	36.7	36.9	38.7	35.9	36.5	39.5	34.9

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	R	ush Damsite	;	М	GORD TOI	•	MGC	RD BOTT	OM	Ţ	Jpper Rush	
Date	Mean	Max	Min									
1/1/2012	34.9	35.2	34.6	37.5	37.6	37.3	37.3	39.0	36.8	37.0	40.0	35.7
1/2/2012	35.3	36.0	35.0	37.3	37.6	37.3	37.3	38.5	36.6	37.0	39.9	35.7
1/3/2012	36.5	37.0	36.1	37.3	37.0	36.9	37.1	38.6	36.4	37.0	39.9	36.0
1/4/2012	36.7	37.0	36.4	37.0	37.3	37.1	37.0	38.7	36.5	37.1	40.0	35.9
1/5/2012	36.6	36.9	36.4	37.2	37.4	37.1	37.1	38.9	36.7	37.1	40.0	36.2
1/6/2012	36.6	36.9	36.3	37.3	37.4	37.3	37.3	38.9	36.7	37.4	40.3	35.7
1/7/2012	36.6	36.8	36.5	37.5	37.6	37.3	37.1	38.7	36.5	36.5	39.3	35.7
1/8/2012	35.6	36.4	35.1	37.6	37.7	37.6	37.2	38.9	36.5	36.5	39.7	34.9
1/9/2012	35.3	35.6	34.9	37.6	37.7	37.5	37.4	39.1	36.8	37.1	40.2	35.7
1/10/2012	35.3	35.6	35.0	37.5	37.8	37.4	37.4	38.9	36.7	37.2	40.1	35.8
1/11/2012	35.1	35.6	34.7	37.5	37.7	37.4	37.2	39.0	36.6	36.7	39.8	35.2
1/12/2012	34.6	35.2	34.1	37.3	37.4	37.2	37.0	38.7	36.3	36.4	39.7	35.0
1/13/2012	34.0	34.7	33.4	37.1	37.4	36.9	36.8	38.4	36.1	36.2	39.4	34.7
1/14/2012	33.9	34.5	33.5	37.1	37.4	36.9	36.9	38.7	36.0	36.4	39.8	34.7
1/15/2012	34.8	35.3	34.4	37.0	37.2	36.7	36.6	38.2	35.9	36.3	39.5	34.9
1/16/2012	34.9	35.3	34.5	36.9	37.2	36.8	36.3	38.1	35.5	35.6	38.5	34.2
1/17/2012	33.9	34.6	33.3	36.8	37.0	36.7	36.4	38.2	35.6	35.7	38.9	34.0
1/18/2012	35.3	36.4	34.5	37.0	37.0	36.9	37.0	38.8	36.5	37.3	40.2	36.0
1/19/2012	36.6	37.0	36.4	37.0	37.1	36.5	36.8	38.1	36.3	36.8	39.2	35.5
1/20/2012	37.3	37.9	37.0	36.3	36.7	36.0	36.5	37.4	35.8	37.1	38.7	36.1
1/21/2012	38.0	38.6	37.2	36.4	36.7	36.1	36.0	36.8	35.1	36.0	37.5	34.3
1/22/2012	36.3	37.1	36.0	36.3	36.5	36.1	36.1	37.8	35.3	35.8	38.6	34.1
1/23/2012	36.2	36.3	36.2	36.0	36.1	35.9	35.9	37.2	35.2	36.1	38.0	34.8
1/24/2012	35.9	36.3	35.6	36.0	36.1	35.8	36.0	37.6	35.3	36.2	38.8	34.7
1/25/2012	35.9	36.3	35.6	36.0	36.3	35.8	36.1	37.9	35.4	36.4	39.7	34.9
1/26/2012	36.4	37.0	36.2	36.4	36.6	36.3	36.6	38.6	35.8	36.9	40.8	35.3
1/27/2012	37.1	37.2	37.0	36.6	36.7	36.5	36.6	38.3	35.9	36.8	39.6	35.2
1/28/2012	36.0	37.1	35.4	36.5	36.7	36.3	36.3	38.2	35.4	36.0	39.5	34.2
1/29/2012	35.4	35.9	34.9	36.4	36.7	36.2	36.4	37.9	35.5	36.3	39.3	34.7
1/30/2012	36.1	36.7	35.9	36.7	36.8	36.5	36.8	38.5	36.2	37.1	40.2	35.8
1/31/2012	36.6	36.9	36.3	36.7	36.8	36.6	36.8	38.9	36.0	37.1	40.6	35.3
2/1/2012	36.9	37.2	36.7	36.4	36.7	36.0	36.3	38.6	35.2	36.5	40.1	34.8
2/2/2012	36.4	37.1	35.9	36.7	37.0	36.3	36.4	38.7	35.3	36.0	40.0	34.1
2/3/2012	35.3	36.3	34.6	37.0	37.2	36.7	36.6	39.3	35.5	35.7	40.3	33.5
2/4/2012	34.4	35.2	33.8	36.7	36.9	36.3	36.3	38.7	35.4	35.7	40.0	33.5
2/5/2012	34.0	34.6	33.4	36.5	36.9	36.0	36.3	38.5	35.4	35.7	39.9	33.7
2/6/2012	33.8	34.4	33.3	36.4	36.8	36.0	36.1	38.3	34.9	35.6	39.4	33.4
2/7/2012	34.7	35.3	34.4	36.0	36.7	35.5	35.9	37.5	35.3	36.1	38.3	35.1
2/8/2012	35.3	35.7	35.0	36.3	36.8	35.8	36.3	39.4	34.9	36.4	41.2	33.9
2/9/2012	35.5	36.1	35.1	36.7	36.9	36.4	36.9	39.7	35.5	37.0	42.0	34.4
2/10/2012	36.1	36.7	35.8	36.8	37.1	36.4	36.9	39.9	35.7	37.2	42.2	34.8
2/11/2012	36.9	37.2	36.7	36.9	37.2	36.2	36.9	39.5	35.4	37.0	41.1	34.4
2/12/2012	37.1	37.4	36.8	37.4	37.5	37.2	37.5	40.1	36.2	37.8	42.0	35.2
2/13/2012	37.3	37.5	37.0	37.1	37.4	36.9	37.0	38.6	36.1	37.1	40.2	35.7
2/14/2012	36.9	37.3	36.7	37.5	37.7	37.2	37.6	40.2	36.6	37.7	42.0	35.5
2/15/2012	36.8	37.3	36.2	37.2	37.8	37.0	36.6	38.3	35.1	36.1	39.2	33.8
2/16/2012	35.7	36.1	35.2	37.2	37.3	37.0	37.1	40.0	35.9	36.8	41.6	34.5
2/17/2012 2/18/2012	35.2	35.8	34.6	36.9	37.0	36.7	36.9	39.9 39.0	35.5	36.8	42.2 40.5	33.9
	35.8	36.3	35.5	37.2	37.3	37.1	37.1		36.1	37.0		35.0
2/19/2012 2/20/2012	36.0 36.2	36.3 36.7	35.7 35.9	37.3 37.6	37.5 37.8	37.2 37.4	37.3 37.7	40.1 40.6	36.0 36.5	37.1 37.8	41.5 42.5	34.9 35.5
2/20/2012	36.2 36.5	36.7 37.0	35.9 36.2	37.6	37.8 37.7	37.4 37.3	37.7	40.6 39.9	36.5 36.7	37.8 37.9	42.5	35.5 35.6
2/21/2012	36.5 36.9	37.0 37.4	36.2 36.5	37.6	37.7 37.7	37.3 37.3	37.7	39.9 40.7	36.7 36.6	38.2	43.3	35.6
2/22/2012 2/23/2012	37.3	37.4 37.7	36.5 36.9	37.6	37.7 37.9	37.3 37.4	37.9 37.9	40.7	36.6 36.7	38.2	43.3	35.7 35.8
2/23/2012	37.3 37.4	37.7 38.0	36.9 36.9	37.6	37.9 38.1	37.4 37.7	37.9	40.9	36.7 36.7	38.2 38.4	43.3 44.2	35.8 35.4
2/24/2012	38.3	38.0 38.7			38.1		37.7	40.8		38.4 37.9	43.1	35.4 35.4
2/25/2012 2/26/2012	38.3 37.8	38.7 38.7	38.0 37.1	37.8 37.9	38.1	37.5 37.4	37.7	40.8 41.1	36.1 36.0	37.9 36.9	43.1	
2/26/2012	37.8	38.7 37.7	37.1 37.0	37.9 37.4	38.3 37.7	37.4 37.1	37.3	40.0	36.0 36.1	36.9 36.9	42.8 41.7	34.1 35.0
2/28/2012	36.5	37.7 37.2	37.0 35.9	37.4	37.7 37.9	37.1	37.2	40.0 40.9	36.1	36.9 37.6	43.7	34.2
2/29/2012	36.5 36.7	37.2 36.9	35.9 36.6	37.7	37.9 37.7	37.3 37.2	36.8	38.7	35.9	36.6	39.1	35.3
212712012	30.7	30.7	50.0	31.4	31.1	31.4	30.0	30.1	33.7	30.0	37.1	33.3

	R	ush Damsite	;	М	GORD TO	•	MGC	ORD BOTT	ОМ	Ţ	Jpper Rush	
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
3/1/2012	36.3	36.6	35.9	36.9	37.4	36.5	36.6	39.1	35.2	36.3	40.2	34.4
3/2/2012	36.3	36.9	35.7	37.4	37.6	37.2	37.6	40.8	35.9	37.6	43.3	34.4
3/3/2012	36.7	37.5	36.1	37.7	37.9	37.6	38.1	41.4	36.5	38.3	44.4	35.1
3/4/2012	37.4	38.1	36.9	37.6	37.8	37.2	38.1	41.5	36.4	38.6	44.8	35.4
3/5/2012	38.2	38.8	37.8	37.9	38.3	37.6	38.3	41.9	36.8	38.8	45.1	35.7
3/6/2012	38.8	39.0	37.7	37.8	38.1	37.4	37.3	40.3	36.1	37.1	41.3	34.5
3/7/2012	35.9	37.4	35.0	37.7	38.0	37.4	37.4	40.9	35.2	36.7	42.9	32.9
3/8/2012	36.1	37.0	35.4	38.1	38.3	38.0	38.2	41.8	36.6	38.1	44.7	34.6
3/9/2012	36.9	37.8	36.3	37.9	38.1	37.4	38.4	41.9	36.4	38.7	45.1	35.0
3/10/2012	37.8	38.4	37.4	38.0	38.4	37.5	38.4	41.5	36.6	38.9	45.1	35.4
3/11/2012	38.7	39.2	38.4	38.3	38.9	37.8	38.7	42.1	37.0	39.3	45.3	36.2
3/12/2012	39.2	39.5	38.9	38.7	39.1	38.2	38.9	41.8	37.5	39.2	44.5	36.7
3/13/2012	39.4	39.7	39.1	38.5	39.2	38.1	38.7	41.8	37.1	39.0	44.4	36.6

# 8.3 DAILY AVERAGE, MAXIMUM, AND MINIMUM WATER TEMPERATURE (°F) AT RUSH CREEK ABOVE PARKER CONFLUENCE, RUSH CREEK BELOW THE NARROWS, RUSH CREEK BELOW 10 CHANNEL FALLS, AND RUSH CREEK AT COUNTY ROAD.

	Rus	h above Parl	ker	Ве	low Narrow	s	Rus	h 10 CH Fa	lls	Rus	sh County R	ld
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
4/1/2011	43.5	50.3	39.4	43.6	51.3	38.6	44.2	53.3	38.2	44.8	54.3	38.3
4/2/2011	42.9	48.0	39.4	43.3	49.5	39.7	44.2	52.0	39.8	45.1	53.7	40.6
4/3/2011	40.4	46.0	36.8	40.5	46.8	36.3	41.0	48.5	36.1	41.5	49.5	36.2
4/4/2011	41.2	47.1	37.6	41.4	48.3	36.9	41.9	50.1	36.4	42.2	51.1	36.3
4/5/2011	43.0	48.7	39.5	43.3	50.1	39.0	43.9	52.4	38.6	44.2	53.2	38.5
4/6/2011	42.5	47.4	38.7	42.8	48.4	38.6	43.2	50.0	38.4	43.8	51.1	39.1
4/7/2011	39.5	42.3	37.8	39.0	42.3	36.9	38.8	42.7	36.2	39.0	42.9	36.7
4/8/2011	38.9	41.9	37.0	38.1	41.4	36.2	37.9	41.6	35.3	37.9	42.0	35.0
4/9/2011	40.0	44.2	37.7	39.6	45.0	36.8	39.8	46.3	36.2	40.0	47.1	36.1
4/10/2011	41.0	45.8	37.7	40.8	46.7	36.9	41.0	48.3	36.2	41.2	49.2	36.0
4/11/2011	42.6	47.1	39.7	42.6	48.0	39.0	42.9	49.3	38.6	43.1	50.0	38.5
4/12/2011	43.6	48.2	40.7	43.4	49.1	39.8	43.6	50.8	39.1	43.9	51.9	39.0
4/13/2011	41.4	43.8	39.0	41.1	43.8	38.3	41.1	44.7	37.8	41.4	45.3	38.4
4/14/2011	41.6	47.0	38.4	41.3	47.7	37.4	41.5	49.0	36.6	41.7	49.9	36.2
4/15/2011	43.0	48.2	39.9	43.3	49.6	39.2	43.8	51.6	38.7	44.1	52.6	38.5
4/16/2011	44.2	49.2	40.8	44.7	50.4	40.3	45.2	51.9	40.0	45.5	52.8	40.1
4/17/2011	45.5	50.6	42.0	45.8	52.0	41.6	46.1	53.2	41.4	46.3	53.4	41.5
4/18/2011	45.1	49.8	42.3	45.4	50.5	42.4	45.9	52.3	42.4	46.6	53.4	43.1
4/19/2011	44.4	48.7	41.9	44.5	49.4	41.1	44.8	50.8	40.8	45.1	51.3	40.9
4/20/2011	44.8	49.1	41.4	44.9	50.1	41.1	45.2	51.8	40.8	45.7	52.8	41.9
4/21/2011	44.0	48.8	41.3	43.9	49.6	40.9	44.2	51.3	40.5	44.5	52.2	40.5
4/22/2011	43.7	47.4	41.2	43.3	48.2	40.2	43.4	50.2	39.5	43.6	51.0	39.4
4/23/2011	44.8	48.5	43.0	44.7	49.0	42.4	45.1	51.6	42.2	45.4	53.2	42.3
4/24/2011	45.0	49.6	42.5	44.9	50.1	41.8	45.1	51.4	41.5	45.4	52.1	41.5
4/25/2011	44.9	50.3	42.1	44.8	51.0	41.8	45.1	52.6	41.3	45.4	53.7	41.2
4/26/2011	44.7	50.4	41.3	44.4	51.1	39.9	44.7	52.6	39.2	45.0	53.5	38.9
4/27/2011	45.3	51.3	41.7	45.4	52.6	40.9	45.9	53.9	40.2	46.2	54.7	40.1
4/28/2011	46.2	51.6	42.6	46.2	52.6	42.4	46.4	54.2	42.1	46.9	55.3	42.8
4/29/2011	44.8	49.7	42.3	44.6	50.5	41.3	44.7	51.8	40.5	44.9	52.8	40.3
4/29/2011	44.4	49.6	41.2	44.0	50.2	39.9	44.1	51.6	38.9	44.3	52.6	38.7
4/30/2011	77.7	47.0	71.2	4-7.0	50.2	37.7	7-7.1	51.0	53.7	7-1.3	32.0	33.7

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	Rusł	n above Parl	ker	Ве	low Narrow	/S	Rus	h 10 CH Fa	lls	Ru	sh County F	Rd
Date	Mean	Max	Min									
5/1/2011	44.9	50.2	41.6	44.7	51.1	40.4	44.9	52.7	39.5	45.1	53.8	39.2
5/2/2011	45.8	50.8	42.4	46.0	52.0	41.6	46.4	53.8	41.0	46.5	55.0	40.8
5/3/2011	47.7	52.2	44.8	48.1	53.7	44.2	48.5	55.6	43.6	48.9	56.8	43.5
5/4/2011	47.5	52.3	44.6	47.8	53.6	44.0	48.2	55.5	43.4	48.7	56.6	43.3
5/5/2011	48.1	52.8	44.7	48.6	54.3	44.3	49.0	56.3	43.7	49.3	57.4	43.7
5/6/2011	49.0	53.2	46.0	49.4	54.6	45.5	49.8	56.4	44.9	50.1	57.6 52.2	44.8
5/7/2011 5/8/2011	48.6 49.0	51.3 52.5	46.6 46.1	48.8 48.9	52.0 52.6	46.3 45.9	48.9 49.0	52.2 53.7	45.9 45.3	49.1 49.4	52.3 54.9	45.9 45.7
5/9/2011	46.3	49.0	44.8	45.4	48.6	43.8	44.9	48.3	43.3	45.4	48.0	43.7
5/10/2011	47.0	51.9	44.1	46.4	52.2	42.8	46.4	52.8	42.0	46.4	53.3	41.7
5/11/2011	48.3	53.0	45.3	48.3	53.6	44.5	48.6	55.1	43.9	48.9	56.4	43.9
5/12/2011	49.9	54.0	47.2	50.1	55.3	46.5	50.5	56.9	46.1	50.8	58.0	46.0
5/13/2011	50.1	54.2	47.6	50.4	55.5	47.1	50.7	57.1	46.5	50.9	58.1	46.5
5/14/2011	50.0	53.9	47.6	50.1	54.6	47.3	50.2	55.5	46.9	50.6	56.1	46.9
5/15/2011	48.7	51.5	47.0	48.1	51.5	46.1	48.0	52.4	45.5	48.2	53.1	45.4
5/16/2011	48.5	51.9	46.6	47.8	52.1	45.3	47.7	52.9	44.5	47.7	53.5	44.2
5/17/2011	48.1	50.2	46.8	47.8	50.8	46.3	47.8	52.0	45.7	48.0	52.8	45.6
5/18/2011	47.8	50.8	46.1	47.3	51.0	45.1	47.2	51.5	44.7	47.2	51.6	44.7
5/19/2011 5/20/2011	48.0 48.8	50.6 53.3	46.5 45.8	47.7 48.9	50.9 54.5	45.8 45.0	47.7 49.4	52.2 56.2	45.4 44.4	47.8 49.6	52.0 57.2	45.3 44.3
5/20/2011	50.1	54.1	47.5	50.4	55.5	47.3	50.9	57.3	46.8	51.1	58.4	46.8
5/22/2011	49.7	52.4	47.4	49.7	53.1	46.9	49.9	54.3	46.4	50.1	55.0	46.4
5/23/2011	49.7	54.0	47.0	49.8	54.9	46.3	50.0	56.4	45.7	50.3	57.2	45.6
5/24/2011	49.9	54.0	47.1	49.9	54.9	46.2	50.2	56.6	45.4	50.4	57.5	45.3
5/25/2011	49.9	53.9	47.2	49.9	54.9	47.0	50.0	56.3	46.8	50.3	57.0	46.7
5/26/2011	49.6	54.3	47.3	49.6	55.0	46.6	50.1	56.4	46.1	50.4	57.1	46.0
5/27/2011	50.4	55.2	47.8	50.5	56.3	47.3	50.5	57.3	46.8	50.6	58.2	46.7
5/28/2011	50.3	54.2	48.4	50.2	55.0	47.9	50.4	56.3	47.5	50.7	57.0	47.3
5/29/2011	49.3	51.9	47.6	48.7	52.1	46.5	48.7	53.4	45.9	48.8	53.9	45.7
5/30/2011	49.8	53.6	47.0	49.4	53.9	45.7	49.5	55.0	44.9	49.6	55.8	44.7
5/31/2011	49.3	52.9	46.8	49.1	53.5	46.5	49.2	54.6	46.1	49.5	55.5	46.2
6/1/2011	48.4	52.5	46.1	48.2	53.1	45.2	48.3	54.0	44.9	48.5	54.9	44.8
6/2/2011	48.8	52.9	46.2	48.3	53.5	45.0	48.5	54.8	44.3	48.7	55.7	44.1
6/3/2011	48.9	51.8	46.7	48.4	52.0	45.5	48.3	52.2	44.8	48.3	52.6	44.6
6/4/2011	49.4	51.0	48.4	49.2	51.1	47.9	49.3	51.6	47.6	49.5	52.2	47.6
6/5/2011	50.7	54.3	48.7	50.9	55.5	48.3	51.2	56.6	48.1	51.7	58.1	48.2
6/6/2011	50.5	54.6	48.9	50.7	55.5	48.7	50.9	55.9	48.5	51.4	57.3	48.5
6/7/2011	50.6	54.5	48.4	50.8	55.4	47.9	51.1	56.3	47.6	51.6	58.2	47.5
6/8/2011	51.5	55.8	48.5	51.8	57.0	48.0	52.0	57.9	47.6	52.5	59.5	47.6
6/9/2011	52.4	56.2	49.6	52.7	57.3	49.2	53.0	58.7	48.7	53.4	60.3	48.6
6/10/2011	53.0	56.7	50.1	53.5	58.0	49.9	53.7	59.1	49.6	54.2	60.5	49.5
6/11/2011	53.0	56.1	50.6	53.2	57.1	50.2	53.2	57.3	49.8	53.5	58.5	49.7
6/12/2011	53.3	56.5	51.1	54.0	57.9	51.0	54.3	59.0	50.9	54.9	60.5	51.1
6/13/2011	53.8	57.0	51.3	54.5	58.4	51.3	54.7	59.7	50.9	55.2	61.2	51.0
6/14/2011	55.8	59.0	53.3	56.4	60.4	53.1	56.3	60.7	52.6	56.9	62.8	52.7
6/15/2011	55.8	58.3	53.7	56.4	59.7	53.6	56.1	60.0	53.0	57.1	62.2	53.3
6/16/2011	55.8	59.1	53.5	56.0	59.7	52.9	54.8	57.9	52.1	56.5	61.5	52.4
6/17/2011	55.0	58.1	53.1	55.1	58.6	52.3	53.9	57.6	51.1	55.6	60.8	51.7
6/18/2011	55.4	57.9	53.3	55.5	58.4	52.8	53.7	56.6	51.5	56.0	60.3	52.4
6/19/2011	55.1	58.1	52.5	55.3	58.7	52.9	52.1	53.7	50.6	56.1	60.9	52.9
6/20/2011	55.0	58.2	52.8	55.0	59.0	51.9	55.2	60.2	51.1	55.6	61.2	51.5
6/21/2011	55.9	58.9	53.7	56.1	59.9	53.1	56.4	61.1	52.6	56.7	62.1	52.8
6/22/2011	56.9	59.7	55.0	57.2	60.8	54.6	57.5	61.8	54.2	57.9	62.7	54.3
6/23/2011	56.9	59.7	55.0	57.0	60.5	54.3	57.1	61.5	53.9	57.6	62.4	53.9
6/24/2011	56.5	59.4	54.4	56.3	59.9	53.2	56.3	60.9	52.8	56.9	62.1	52.8
6/25/2011	56.6	59.7	54.4	56.2	60.0	53.1	55.9	60.1	52.5	56.8	62.1	52.7
6/26/2011	56.4	58.8	54.3	56.1	59.5	53.1	56.0	60.2	52.6	56.7	61.6	52.6
6/27/2011	56.6	59.4	54.6	56.6	60.1	53.9	55.4	58.8	52.7	57.2	62.2	53.5
6/28/2011	56.9	62.3	54.4	56.7	61.9	54.1	54.7	58.9	52.6	57.2	63.2	53.8
6/29/2011	55.5	57.2	54.3	54.8	56.8	53.5	53.2	54.4	52.1	55.1	57.2	53.7
6/30/2011	56.0	58.7	53.8	55.5	59.1	52.4	54.6	58.1	51.5	56.0	61.2	51.9

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	Rusl	above Park	cer	Be	low Narrow	rs	Rusi	h 10 CH Fal	lls	Ru	sh County R	ld
Date	Mean	Max	Min									
7/1/2011	56.9	59.8	54.6	56.8	60.5	53.8	56.3	60.6	53.1	57.5	62.7	53.6
7/2/2011 7/3/2011	57.4 57.7	60.3 60.5	55.3 55.9	57.5 57.8	61.1 61.2	54.6 55.2	56.5 57.5	60.6 61.8	53.2 54.5	58.2 58.4	63.3 63.5	54.3 54.9
7/4/2011	57.6	61.1	55.6	57.8	61.7	55.0	57.3 57.3	61.5	54.3 54.1	58.6	63.7	54.9
7/5/2011	57.0	58.8	55.9	56.9	58.8	55.5	56.3	58.7	54.6	57.6	60.1	55.5
7/6/2011	56.7	58.8	55.1	56.9	59.4	54.6	56.5	59.8	54.2	57.7	61.6	54.8
7/7/2011	56.4	59.1	54.4	56.6	59.7	54.0	53.7	56.4	51.7	57.4	61.8	54.1
7/8/2011	56.1	58.8	54.2	56.3	59.4	54.1	54.0	57.2	51.8	57.0	62.0	53.6
7/9/2011	56.0	59.3	54.4	56.2	60.1	53.8	54.2	57.6	52.1	56.9	62.1	53.7
7/10/2011	55.7	58.2	53.9	55.7	58.8	53.1	54.0	57.2	51.5	56.2	60.7	52.6
7/11/2011	55.7	59.1	53.6	55.6	59.1	52.9	53.7	56.9	51.5	56.3	61.5	52.6
7/12/2011	55.6	58.3	53.7	55.6	58.9	53.1	53.5	56.4	51.2	56.3	61.0	52.7
7/13/2011	55.2	58.5	52.8	55.3	59.1	52.8	53.6	56.7	51.3	56.0	61.0	52.6
7/14/2011 7/15/2011	55.0 54.9	58.8 58.4	52.6 52.7	55.1 55.2	59.5 59.2	52.0 52.8	53.8 54.3	57.6 57.5	51.1 51.9	55.7 56.1	61.3 60.8	51.6 52.5
7/16/2011	54.8	58.5	52.7	54.9	59.1	51.6	54.3	58.5	51.0	55.5	61.4	51.1
7/17/2011	55.6	60.0	52.8	55.4	60.2	52.0	54.9	59.7	51.4	55.9	62.0	51.5
7/18/2011	56.2	60.2	53.5	55.9	60.4	52.5	55.4	59.8	52.1	56.4	62.3	52.2
7/19/2011	56.8	60.3	54.8	56.4	60.5	53.8	56.1	60.3	53.2	57.0	62.5	53.3
7/20/2011	57.7	61.1	55.1	57.3	61.3	54.3	56.9	60.9	53.6	57.9	63.6	53.7
7/21/2011	57.9	61.3	55.1	57.7	61.6	54.7	57.2	61.3	54.0	58.2	64.1	54.0
7/22/2011	58.4	61.7	55.7	58.3	62.1	55.4	57.9	61.9	54.7	58.9	64.4	54.9
7/23/2011	59.2	62.5	56.7	59.0	62.8	56.0	58.5	62.5	55.4	59.6	64.9	55.7
7/24/2011	59.1	62.1	57.1	59.0	62.3	56.6	58.5	62.0	55.9	59.5	64.3	56.0
7/25/2011	59.1	62.5	56.6	58.7	62.5	55.7	58.2	62.1	55.2	59.2	64.4	55.1
7/26/2011	59.2	62.5	56.8	58.6	62.4	55.5	58.0	61.9	54.8	58.9	64.5	54.6
7/27/2011 7/28/2011	59.5 59.8	62.3 62.6	57.4 57.8	59.0 59.4	62.1 62.6	56.6 57.0	58.5 59.0	62.2 62.7	55.6 56.2	59.6 60.0	64.6 64.9	55.9 56.5
7/29/2011	59.7	62.5	57.9	59.4	62.6	57.0	58.8	63.0	56.6	59.8	65.2	56.9
7/30/2011	59.5	61.9	57.6	59.0	61.9	56.9	57.9	60.5	55.9	59.4	63.6	56.6
7/31/2011	59.7	61.3	58.2	58.7	60.3	57.1	57.6	59.0	56.1	59.1	61.2	56.8
8/1/2011	60.7	63.3	58.8	59.8	62.6	57.6	58.5	61.6	56.3	60.4	64.8	57.4
8/2/2011	61.1	63.8	59.5	60.3	63.5	58.3	59.2	62.7	56.9	60.8	65.3	57.8
8/3/2011	61.1	64.2	59.4	60.4	63.9	58.0	59.4	63.0	56.7	60.7	66.0	57.3
8/4/2011	60.9	64.0	58.8	60.1	63.7	57.5	59.4	63.1	56.6	60.5	65.6	56.9
8/5/2011	60.4	63.8	58.2	59.8	63.5	57.1	59.2	63.3	56.3	60.2	65.7	56.4
8/6/2011	60.3	63.2	57.8	59.8	63.1	57.4	59.5	63.3	56.6	60.3	65.3	56.7
8/7/2011	59.9	63.5	57.4	59.4	63.4	56.1	59.1	63.5	55.5	59.7	65.4	55.2
8/8/2011	59.9	63.5	57.1	59.3	63.6	55.9	59.2	64.1	55.3	59.7	65.7	55.1
8/9/2011	59.8	63.4	57.2	59.3	63.5	56.0	59.3	64.3	55.5	59.7	65.8	55.3
8/10/2011	59.8	63.5	57.2	59.4	63.4	56.3	59.4	64.3	55.7	59.9	65.8	55.4
8/11/2011	59.5	63.6	57.0	59.2	63.5	56.3	59.3	64.6	55.6	59.8	66.1	55.4
8/12/2011 8/13/2011	59.4 59.1	63.8 63.6	56.4 56.5	59.0 58.7	63.9 63.3	55.5 55.7	59.0 58.8	64.4 63.4	55.1 55.3	59.4 59.2	66.1 65.0	54.8 54.9
8/14/2011	58.8	63.6	55.6	58.5	63.8	54.7	58.6	64.2	54.5	59.1	65.9	54.1
8/15/2011	58.3	62.5	55.1	58.0	62.7	54.6	58.2	63.3	54.4	58.6	65.1	53.9
8/16/2011	57.9	63.1	54.4	57.4	62.9	53.4	57.5	63.3	53.4	57.9	65.4	52.7
8/17/2011	57.8	63.3	54.1	57.4	63.1	53.1	57.6	63.6	53.0	57.8	65.3	52.4
8/18/2011	58.3	63.3	54.8	58.1	63.6	53.8	58.3	64.5	53.6	58.6	66.1	53.2
8/19/2011	58.6	63.6	55.3	58.5	64.0	54.8	58.8	65.0	54.6	59.2	66.6	54.3
8/20/2011	58.4	64.1	54.6	58.1	63.9	53.9	58.4	64.7	53.8	58.7	66.3	53.6
8/21/2011	58.2	64.1	53.9	57.6	63.7	52.9	57.8	64.2	52.9	58.1	65.6	52.5
8/22/2011	58.3	63.8	53.9	57.6	63.1	52.8	57.6	62.9	52.9	57.7	64.2	52.5
8/23/2011	59.2	64.6	55.4	59.0	64.7	54.8	59.2	65.1	54.7	59.7	67.0	54.4
8/24/2011	59.2 50.1	64.9	55.6 54.8	59.2	64.9	55.2 54.4	59.4 50.1	65.2	55.3 54.7	59.9 59.4	67.0 66.4	55.0
8/25/2011	59.1	64.7	54.8	58.8	64.3	54.4	59.1	64.7	54.7 54.6	59.4	66.4 65.0	54.1
8/26/2011 8/27/2011	59.4 60.6	64.5 65.9	55.3 57.2	58.7	63.7 65.5	54.4 57.1	58.9	63.9 66.2	54.6 57.2	59.1	65.0 67.8	54.3
8/2//2011	60.6	66.2	57.2 56.1	60.4 59.5	65.5 64.9	57.1 55.4	60.8 59.8	65.4	57.2 55.6	61.4 60.1	67.8 67.2	57.1 55.3
8/29/2011	59.5	64.8	55.5	58.9	64.2	54.6	59.3	65.2	54.8	59.6	66.7	54.3
8/30/2011	59.4	65.0	55.6	58.6	64.2	54.6	58.8	64.9	54.3	59.0	66.3	53.8
8/31/2011	59.3	66.4	54.3	58.0	64.9	52.8	58.3	65.3	52.6	58.3	66.6	51.7

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	Rusl	h above Park	cer	Ве	low Narrow	/S	Rus	h 10 CH Fa	lls	Rus	sh County R	ld
Date	Mean	Max	Min									
0/1/2011	50.2	((,)	540	50.1	64.9	52.4	59.2	(5.0	52.2	50.4	((2	52.6
9/1/2011 9/2/2011	59.2 59.6	66.0 65.4	54.9 56.2	58.1 58.2	64.8 64.2	53.4 54.1	58.3 58.4	65.0 64.6	53.3 53.6	58.4 58.5	66.2 66.1	52.6 52.9
9/3/2011	59.8	66.0	56.1	58.5	64.8	54.0	58.7	65.1	53.8	58.8	66.6	52.9
9/4/2011	59.8 59.9	65.6	56.3	58.7	64.6	54.5	58.9	64.8	54.3	59.0	66.6	53.4
9/5/2011	59.7	65.3	56.1	58.7	63.7	55.0	58.8	63.8	55.3	58.8	64.3	54.6
9/6/2011	60.1	66.5	56.3	58.7	65.1	54.5	58.8	64.8	54.3	58.9	66.4	53.4
9/7/2011	60.0	66.5	56.2	59.0	66.5	54.3	59.2	65.7	54.3	59.4	67.4	53.3
9/8/2011	60.2	66.6	56.3	59.4	66.3	55.2	59.5	64.9	55.5	59.7	66.0	54.7
9/9/2011	58.9	63.3	56.6	57.8	62.2	55.2	57.7	60.8	55.0	57.6	62.0	54.0
9/10/2011	58.8	63.2	55.6	57.4	61.7	53.8	57.2	60.8	54.1	57.1	61.7	52.9
9/11/2011	58.6	62.9	56.3	57.2	61.6	54.7	57.1	60.6	54.8	57.2	61.8	54.1
9/12/2011	59.1	64.3	55.1	56.9	61.8	52.6	56.8	61.1	53.0	56.8	62.8	51.9
9/13/2011	59.7	63.7	57.0	58.0	62.2	55.0	58.2	61.9	55.3	58.5	63.9	54.6
9/14/2011	59.7	66.4	54.7	57.9	64.8	52.7	58.0	63.7	53.3	58.1	65.7	52.1
9/15/2011	59.1	64.3	55.2	57.5	62.5	53.2	57.6	61.6	53.8	57.7	63.1	52.5
9/16/2011	59.6	64.1	56.7	58.1	63.7	54.7	58.1	62.8	55.1	58.0	64.8	54.3
9/17/2011	58.8	65.3	54.0	57.0	63.8	51.6	56.9	62.3	52.3	56.8	64.1	50.4
9/18/2011	59.2	66.3	54.0	57.5	65.0	51.8	57.2	63.0	52.2	57.2	65.1	50.4
9/19/2011	59.1	65.5	54.4	57.7	64.9	52.5	57.6	63.0	53.0	57.6	64.8	51.4
9/20/2011	58.9	66.0	54.7	57.7	65.4	52.9	57.6	62.8	53.5	57.7	64.9	51.9
9/21/2011	59.2	65.8	54.8	57.9	64.9	52.9	57.7	63.4	53.3	57.8	65.7	51.5
9/22/2011	59.4	65.9	55.0	58.1	65.0	53.0	57.9	63.0	53.5	57.8	64.6	51.8
9/23/2011 9/24/2011	58.6	63.5	54.6	57.3	62.6	52.7	57.4	61.5	53.3	57.3	64.6	51.5
9/24/2011	58.2 58.3	61.5 63.0	55.4 54.8	56.9 57.0	60.6 62.2	53.7 53.1	56.8 56.7	59.7 60.6	54.0 53.4	56.7 56.5	61.2 61.4	52.5 52.0
9/25/2011	59.1	65.5	54.8 54.7	57.8	65.0	52.8	57.4	62.7	53.4	57.4	64.9	51.4
9/27/2011	59.2	65.8	54.6	57.9	65.4	52.8	57.8	63.3	53.3	57.8	65.2	51.4
9/28/2011	58.9	65.4	54.5	57.4	64.2	52.4	57.4	62.4	53.1	57.3	64.4	51.5
9/29/2011	59.0	65.7	54.6	57.5	64.8	52.6	57.5	62.7	53.2	57.4	64.0	51.5
9/30/2011	58.0	63.8	54.4	56.5	62.8	52.6	56.5	59.8	53.3	56.2	60.8	51.6
10/1/2011	57.7	62.1	54.8	56.4	61.4	53.0	56.1	60.0	53.2	55.9	61.5	51.8
10/2/2011	58.3	62.6	56.1	57.2	62.1	54.5	57.0	60.9	54.6	57.0	62.5	53.7
10/3/2011	56.9	61.0	54.9	55.6	60.4	53.2	55.5	58.5	53.3	55.1	60.0	52.0
10/4/2011	56.6	60.9	54.3	55.0	59.4	52.4	54.8	58.1	52.6	54.5	58.9	51.5
10/5/2011	54.2	57.8	52.0	51.9	55.6	49.0	52.1	55.0	49.8	51.7	55.8	48.7
10/6/2011	52.5	55.2	50.5	49.4	52.2	47.0	49.4	51.8	47.8	48.5	52.6	46.6
10/7/2011	53.3	58.7	49.7	50.1	56.4	45.8	49.7	54.8	45.8	49.1	56.3	43.9
10/8/2011	54.3	59.4	51.1	52.2	58.0	48.4	51.7	56.6	48.2	51.6	58.2	46.8
10/9/2011	54.4	58.9	51.6	52.7	58.0	49.3	52.3	56.8	48.9	52.2	58.6	47.6
10/10/2011	54.4	57.4	52.4	53.1	56.5	50.7	52.7	55.5	50.5	52.5	56.8	49.5
10/11/2011	55.1	58.7	53.1	54.2	58.7	51.6	54.0	58.2	51.4	54.1	60.0	50.5
10/12/2011	54.9	58.1	53.0	54.0	58.3	51.5	53.8	57.8	51.0	53.7	59.6	50.0
10/13/2011	55.1	57.8	53.5	54.5	58.3	52.2	54.3	57.9	51.8	54.2	59.6	51.1
10/14/2011 10/15/2011	55.0 55.1	57.2 56.3	53.4 53.7	54.6 54.7	57.6 56.5	52.4 52.8	54.4	57.2 56.1	52.2 52.6	54.4	58.9 57.6	51.4 52.0
10/15/2011	55.1 55.2	56.3 56.7	53.7 54.4	54.7	56.5 56.8	52.8	54.5 54.8	56.1 56.6	52.6 53.5	54.4 54.8	57.6 58.0	53.1
10/16/2011	55.3	57.3	54.4	54.9	50.8 57.5	53.8	54.8 54.7	57.3	53.5	54.8 54.8	58.0 58.5	52.7
10/17/2011	55.3	57.3 57.1	54.3 54.2	54.9	57.3 57.2	53.6	54.7	57.3 57.3	53.2 52.9	54.8 54.7	58.3	52.7 52.5
10/19/2011	55.1	56.7	54.1	54.7	56.9	53.4	54.5	57.0	53.1	54.5	57.9	52.6
10/20/2011	54.9	56.8	53.9	54.6	56.8	53.2	54.3	56.6	52.8	54.3	57.9	52.2
10/21/2011	54.8	56.6	53.9	54.5	56.6	53.1	54.2	56.7	52.7	54.1	57.7	52.0
10/22/2011	54.7	56.6	53.7	54.3	56.5	52.9	54.0	56.6	52.3	53.8	57.5	51.8
10/23/2011	54.7	56.5	53.6	54.3	56.4	52.8	54.0	56.5	52.3	53.9	57.5	51.7
10/24/2011	54.6	55.9	53.8	54.2	55.8	53.2	53.9	55.6	52.9	53.8	55.9	52.4
10/25/2011	54.0	55.8	53.2	53.5	55.8	52.4	53.2	55.9	51.9	53.1	56.6	51.4
10/26/2011	52.8	54.8	51.6	51.9	54.4	50.3	51.3	54.4	49.4	51.1	54.8	48.9
10/27/2011	52.4	55.0	51.1	51.2	54.4	49.5	50.6	54.3	48.5	50.3	54.7	47.8
10/28/2011	52.3	55.3	50.8	51.2	54.7	49.2	50.7	54.8	48.2	50.4	55.3	47.6
10/29/2011	52.1	55.9	50.4	50.9	55.2	48.7	50.4	55.2	47.7	50.2	55.6	47.1
10/30/2011	51.8	55.7	49.7	50.4	54.8	47.9	50.0	54.7	47.0	49.8	55.0	46.3
10/31/2011	51.5	55.7	49.1	50.0	54.7	47.2	49.7	54.6	46.3	49.4	54.9	45.5

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Date   Mean   Max   Min   Mean   Max   Min   Mean   Max   Min   Mean   Max   Min		Rusl	n above Parl	ker	Ве	low Narrow	/S	Rusl	h 10 CH Fa	lls	Ru	sh County	Rd
	Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
	11/1/2011	50.2	£2 9	47.2	49.7	52.9	45.2	49.2	52.2	44.0	49.0	52.2	44.0
1118/2011   47.4   50.3   48.8   44.3   44.8   44.7   47.8   42.8   44.1   47.0   42.9   44.0   47.1   47.0   47.0   47.1   1118/2011   47.3   50.6   45.2   45.1   48.5   42.9   44.6   47.6   42.5   44.1   47.7   41.3   41.7   41.1   1118/2011   45.7   49.8   42.2   44.4   44.5													
118/2011   457   498   432   434   463   415   429   462   405   422   469   390   1190   1190   1190   159   495   434   438   476   415   439   439   459   434   438   446   1191   461   473   448   458   446   448   448   443   463   448   449	11/6/2011	47.3	50.6	45.2	45.1	48.5	42.9	44.6	47.6	42.5	44.1	47.3	41.7
	11/7/2011	46.7	50.4	44.6	44.5	48.5	42.4	44.1	47.8	41.9	43.7	47.7	41.3
	11/8/2011	45.7	49.8	43.2	43.4	46.3	41.5	42.9	46.2	40.5	42.2	46.9	39.0
1111/12/101	11/9/2011	45.9	50.3	43.4	43.6	46.7	41.6	43.0	46.1	40.4	42.3	46.4	38.9
11/18/2011   43.6   44.9   40.8   42.3   45.9   39.6   42.4   45.4   39.8   42.0   45.0   39.4   11/19/2011   42.5   44.4   41.5   41.2   43.0   40.1   41.0   42.8   40.0   40.4   42.6   39.1   11/19/2011   42.5   44.6   46.5   40.2   41.1   43.8   39.3   40.8   44.3   38.5   40.3   45.1   37.1   11/19/2011   42.8   46.9   40.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5   11/19/2011   42.8   46.9   40.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5   11/19/2011   42.5   45.9   40.9   41.3   45.0   39.6   41.3   44.9   39.2   41.1   44.8   38.3   11/19/2011   42.5   45.9   40.9   41.3   45.0   39.6   41.3   44.8   39.5   41.0   45.1   38.8   11/19/2011   42.2   46.4   40.2   41.0   45.3   39.1   40.9   44.9   38.5   40.4   44.9   37.4   11/19/2011   42.2   46.5   40.3   41.3   41.8   45.9   49.1   41.8   45.8   39.8   40.8   44.6   38.3   40.3   44.5   37.1   11/19/2011   42.2   46.5   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.4   41.1   44.5   44.9   44.													
11/19/2011   43.3   47.2   41.1   41.9   46.1   39.7   41.7   45.6   39.6   41.1   45.4   38.5     11/20/2011   42.5   44.4   41.5   41.2   43.0   40.1   41.0   40.8   44.3   38.5     11/20/2011   42.8   46.9   40.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5     11/20/2011   42.8   46.9   40.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5     11/20/2011   42.8   46.2   41.0   41.6   45.2   39.8   41.5   44.9   39.2   41.1   44.8   38.3     11/24/2011   42.3   45.9   40.9   41.3   45.0   39.6   41.3   44.8   39.5   41.0   45.1   38.8     11/24/2011   42.2   46.4   40.2   41.0   45.1   38.9   40.8   44.6   38.5   40.4   44.9   37.4     11/26/2011   42.2   46.4   40.2   41.0   45.1   38.9   40.8   44.6   38.3   40.3   44.5   37.1     11/26/2011   42.2   46.4   40.3   41.8   45.9   40.1   41.8   45.8   39.8   41.4   46.2   39.1     11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5      12/1/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3    12/202011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5    12/202011   38.2   41.7   36.3   37.4   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9    12/202011   38.2   41.7   36.3   37.4   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.5    12/202011   38.3   42.2   36.3   37.5   37.4   41.8   36.2   40.7   33.4   35.7   36.6   40.6   34.1    12/202011   37.8   42.0   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.5   36.6   40.6   34.1    12/202011   38.3   41.6   35.4   36.8   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1    12/202011   37.0   40.0   35.0   36.3   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1    12/202011   36.4   40.1   34.9   35.6   36.8   39.8   34.8   33.7													
11/21/2011   42.6   46.5   40.2   41.1   43.8   39.3   40.8   44.3   38.5   40.3   45.1   37.1     11/22/2011   42.8   46.9   46.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5     11/23/2011   42.8   46.2   41.0   41.6   45.2   39.8   41.5   44.9   39.2   41.1   44.8   38.3     11/24/2011   42.3   45.9   40.9   41.3   45.0   39.6   41.3   44.8   39.5   40.4   44.9   37.4     11/26/2011   42.2   46.4   40.2   41.0   45.1   38.9   40.8   44.6   38.3   40.3   44.5   37.1     11/26/2011   42.8   46.4   41.3   41.8   44.9   39.0   41.2   44.6   38.7   40.7   44.9   39.1     11/28/2011   42.8   46.4   41.3   41.8   45.9   40.1   41.8   45.8   38.8   40.4   44.9   39.1     11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5      12/12/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3     12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9     12/5/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9     12/5/2011   38.3   41.6   36.7   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.2     12/2/2011   38.3   41.6   36.7   37.4   40.8   35.5   36.8   40.5   33.4   35.7   36.5   40.3   34.2     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.5   36.8   40.5   33.4   35.7   36.5   40.3   32.2     12/12/2011   37.0   40.0   35.1   36.4   39.8   34.2   35.6   36.9   41.3   33.0   35.1   38.9   33.2     12/12/2011   37.0   40.0   35.1   36.4   39.8   34.2   35.6   39.6   33.7   35.3   39.2   33.0     12/12/2011   37.0   40.0   35.4   36.6   36.8   3													
11/22/2011   42.8   46.9   40.6   41.2   43.9   39.5   41.0   44.0   38.8   40.4   44.7   37.5     11/23/2011   42.3   45.9   40.9   41.3   45.0   39.6   41.3   44.8   39.5   41.0   45.1   38.8     11/23/2011   42.2   46.4   40.2   41.0   45.3   39.1   40.9   44.9   38.5   40.4   44.9   37.4     11/27/2011   42.8   46.4   40.2   41.0   45.3   39.1   40.9   44.9   38.5   40.4   44.9   37.4     11/27/2011   42.8   46.4   41.3   41.8   45.9   40.1   41.8   45.8   39.8   41.4   46.2   39.1     11/27/2011   42.8   46.4   41.3   41.8   45.9   40.1   41.8   45.8   39.8   41.4   46.2   39.1     11/28/2011   42.2   46.3   40.0   41.3   45.8   38.8   41.1   45.6   38.7   40.7   44.9   37.8     11/29/2011   42.2   46.3   40.0   41.3   45.8   38.8   41.1   45.6   38.7   40.7   44.9   37.5     12/12/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   37.5     12/12/2011   38.6   39.7   37.6   37.7   38.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0     12/12/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/12/2011   38.2   41.7   36.3   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/12/2011   38.3   42.0   35.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     12/26/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     12/26/2011   38.3   42.0   35.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     12/26/2011   38.3   42.0   35.7   36.3   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   32.5     12/27/2011   38.3   42.0   35.7   36.3   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.0   33.5     12/26/2011   37.0   40.0   35.5   36.8   39.8   34.2   35.6   39.6   33.3   32.2   33.0     12/12/2011   37.0   40.0   35.0   36.3   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.0   33.5     12/27/2011   37.0   40.0   35.0   36.3   37.4   40.8   38.8   36.9   40.8   34.7   36.6   40.0   33.5     12/26/2011   37.0   40.0   35	11/20/2011	42.5	44.4	41.5	41.2	43.0	40.1	41.0	42.8	40.0	40.4	42.6	39.1
11/23/2011   42.8	11/21/2011	42.6	46.5	40.2	41.1	43.8	39.3	40.8	44.3	38.5	40.3	45.1	37.1
11/26/2011   42.2   46.4   40.2   41.0   45.3   39.1   40.9   44.8   39.5   41.0   45.1   38.8   11/25/2011   42.2   46.2   40.0   41.0   45.3   39.1   40.9   44.9   38.5   40.4   44.9   37.4   11/26/2011   42.2   46.2   40.0   41.0   45.1   38.9   40.8   44.6   38.3   40.3   44.5   37.1   11/27/2011   42.8   46.4   41.3   41.8   45.9   40.1   41.8   45.8   39.8   41.4   46.2   39.1   11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8   11/29/2011   42.2   46.3   40.0   41.3   45.8   38.8   41.1   45.6   38.3   40.7   45.3   37.3   11/30/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5   12/2/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3   12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5   12/2/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.2   36.1   40.0   33.5   12/2/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0   32.5   12/2/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0   36.5   40.3   34.	11/22/2011	42.8	46.9	40.6	41.2	43.9	39.5	41.0	44.0	38.8	40.4	44.7	37.5
11/25/2011   42.2   46.4   40.2   41.0   45.3   39.1   40.9   44.9   38.5   40.4   44.9   37.4     11/26/2011   42.2   46.2   40.0   41.0   45.1   38.9   40.8   44.6   38.3   40.3   44.5   37.1     11/27/2011   42.8   46.4   41.3   41.8   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/28/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5      12/1/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3     12/2/2011   39.2   42.9   37.0   38.2   41.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0     12/3/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.4   33.9   36.1   40.0   33.5     12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.4   33.9   36.1   40.0   33.5     12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.4   33.9   36.1   40.0   33.5     12/2/2011   38.3   42.2   36.3   37.5   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5     12/2/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.9   41.3   34.3   36.6   41.0   33.5     12/1/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   36.8   30.5   30.3   30.1     12/1/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   36.8   39.9   34.9   35.2   33.0     12/1/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   36.8   39.9   34.9   35.1   35.5   35.8   39.2   33.0     12/1/2011   36.4   40.0   34.4   35.7   39.5   33.4   35.5   36.6   38.8   33.0   35.1   35.9   33.1     12/1/2011   36.2   40.1   34.9   35.9   39.4   34.2   35.6   39.8   33.1   35.0   38.8   32.0     12/1/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.	11/23/2011	42.8	46.2	41.0	41.6	45.2	39.8	41.5	44.9	39.2	41.1	44.8	38.3
11/26/2011   42.2   46.2   40.0   41.0   45.1   38.9   40.8   44.6   38.3   40.3   44.5   37.1     11/27/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/29/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8     11/29/2011   42.2   46.3   40.0   41.3   45.8   38.8   41.1   45.6   38.3   40.7   45.3   37.3     11/30/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5     12/1/2011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3     12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     12/4/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     12/2/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     12/2/2011   38.3   42.2   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5     12/2/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.6   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     12/2/2011   37.5   40.0   35.1   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/1/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.3   39.2   33.0     12/1/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.6   38.8   33.0     12/1/2011   37.1   40.5   35.6   36.8   39.9   34.9   36.4   39.9   34.9   35.1													
11/7/2011   42.8													
11/28/2011   42.2   45.6   40.3   41.2   44.9   39.0   41.2   44.6   38.7   40.7   44.9   37.8   11/29/2011   42.2   46.3   40.0   41.3   44.8   38.8   41.1   45.6   38.3   40.7   45.3   37.3   37.5   11/20/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5   12/2/2011   39.2   42.9   37.0   38.2   41.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0   12/3/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5   12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.6   34.9   36.1   41.0   32.9   12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.7   41.6   33.9   36.1   41.0   32.9   12/2/2011   38.2   41.7   36.3   37.5   41.6   35.4   36.6   40.3   34.2   36.1   40.0   33.5   12/2/2011   38.2   41.7   36.3   37.5   41.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0   12/2/2011   38.3   42.2   36.3   37.5   41.3   34.8   36.2   40.7   33.4   35.7   40.4   32.5   12/2/2011   38.3   42.2   36.3   37.5   41.3   34.8   36.2   40.7   33.4   35.7   40.4   32.5   12/2/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5   12/2/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.6   40.6   34.1   12/2/2011   37.6   41.6   35.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1   12/2/2011   37.2   40.6   35.1   36.4   39.8   34.2   35.6   38.8   33.0   33.7   35.6   38.9   33.2   12/11/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   33.7   35.6   38.9   33.1   32.2   12/11/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.5   38.9   33.1   12/11/2011   37.1   40.5   35.6   36.8   39.9   34.9   36.0   38.9   34.3   35.8   38.7   33.9   32.2   12/11/2011   37.1   40.5   35.6   36.8   39.9   34.9   36.0   38.9   34.3   35.8   38.7   33.9   32.2   12/11/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   33.0   36.6   39.9   34.9   36.0   38.9   33.0   36.6   39.9   34.9   36.0   38.9   33.0   36.8   39.9													
11/29/2011   42.2   46.3   40.0   41.3   45.8   38.8   41.1   45.6   38.3   40.7   45.3   37.3   11/20/2011   41.5   44.1   39.2   40.6   43.5   38.2   40.1   43.2   37.5   40.1   42.9   37.5   37													
11/30/2011													
121/12011   38.6   39.7   37.6   37.7   38.7   36.7   36.9   38.4   35.7   36.5   38.2   35.3     121/12011   39.2   42.9   37.0   38.2   41.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0     121/12011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5     124/2011   38.4   42.5   36.2   37.5   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9     125/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0     126/2011   37.8   42.0   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5     127/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   41.3   34.3   36.6   41.0   33.5     128/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   41.3   34.3   36.6   41.0   33.5     128/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6     121/12011   37.1   40.5   35.6   36.4   39.8   34.2   35.6   38.8   33.0   35.1   35.2   39.3     121/12011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     121/12011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     121/12011   37.1   40.5   35.6   36.3   39.2   34.6   35.8   39.1   33.7   35.3   39.2   33.0     121/12011   37.0   40.0   35.0   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.8   33.0     121/12011   37.1   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.8   33.0     121/12011   37.5   40.7   34.6   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.8   32.0     121/152011   37.1   36.2   40.1   34.9   35.9   39.4   34.2   35.6   39.8   34.3   35.8   33.0   35.1   38.5   32.3     121/12011   36.5   40.1   34.9   35.5   36.5   39.1   33.7   35.6   38.8   33.0   35.1   38.5   32.3     121/12011   36.5   40.1   34.9   35.6   38.8   33.0   35.1   35.0   38.8   32.4     121/12011   36.5   40.1   34.9   35.5   36.5   39.1   33.5   37.6   31.9   33.1   36.9   32.0     122/12011   36.1   40.4   34.0   35.7   39.5   33.4   35.5													
12/2/2011   39.2   42.9   37.0   38.2   41.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0   12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5   12/4/2011   38.4   42.5   36.2   37.5   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9   12/5/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0   12/6/2011   37.8   42.0   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5   12/7/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   40.8   34.7   36.6   41.0   33.5   12/8/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1   12/9/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6   12/10/2011   37.1   40.5   35.6   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2   12/11/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.1   39.8   35.5   36.5   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9   33.9   12/12/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.0   36.1   39.9   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0   12/15/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.0   36.1   39.9   33.4   12/16/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.6   39.8   33.2   35.6   39.8   32.2   32.5   34.9   39.3   32.2   32.	11/30/2011	41.5	77.1	37.2	40.0	45.5	30.2	40.1	73.2	31.3	40.1	72.)	37.3
12/2/2011   39.2   42.9   37.0   38.2   41.7   36.3   37.4   41.6   34.9   36.9   41.3   34.0   12/2/2011   38.2   41.7   36.4   37.4   41.0   35.6   36.5   40.3   34.2   36.1   40.0   33.5   12/4/2011   38.4   42.5   36.2   37.5   41.6   35.4   36.7   41.4   33.9   36.1   41.0   32.9   12/5/2011   38.2   41.7   36.3   37.4   40.8   35.5   36.8   40.5   34.5   36.5   40.3   34.0   12/6/2011   37.8   42.0   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5   12/7/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   40.8   34.7   36.6   41.0   33.5   12/8/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1   12/9/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6   12/10/2011   37.1   40.5   35.6   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2   12/11/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.1   39.8   35.5   36.5   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3   12/12/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9   33.9   12/12/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.0   36.1   39.9   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0   12/15/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.0   36.1   39.9   33.4   12/16/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.6   39.8   33.2   35.6   39.8   32.2   32.5   34.9   39.3   32.2   32.	12/1/2011	38.6	39 7	37.6	37.7	38.7	36.7	36.9	38.4	35.7	36.5	38.2	35.3
12/3/2011   38.2													
12/5/2011   38.2	12/3/2011												
12/6/2011   37.8   42.0   35.7   37.0   41.1   34.8   36.2   40.7   33.4   35.7   40.4   32.5     12/7/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   41.3   34.3   36.6   41.0   33.5     12/8/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1     12/9/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6     12/10/2011   37.2   40.6   35.1   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/11/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.3   39.2   33.0     12/12/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     12/13/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.9   33.3     12/14/2011   36.4   40.0   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0     12/15/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/16/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/18/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.3   39.1   33.1   35.0   38.8   32.4     12/18/2011   36.2   40.1   34.0   35.7   39.5   33.4   35.2   39.5   32.5   34.9   39.3     12/19/2011   36.2   40.1   34.0   35.7   39.5   33.4   35.2   39.5   32.5   34.9   39.3     12/12/2011   36.2   39.9   34.2   35.6   39.3   33.5   35.1   39.0   32.5   34.9   38.7   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.8   33.4   34.9   38.7   32.0     12/22/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.9   33.1   33.5   33.6   33.9   33.1   33.6	12/4/2011	38.4	42.5	36.2	37.5	41.6	35.4	36.7	41.4	33.9	36.1	41.0	32.9
12/7/2011   38.3   42.2   36.3   37.5   41.3   35.4   36.9   41.3   34.3   36.6   41.0   33.5     12/8/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1     12/9/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6     12/10/2011   37.2   40.6   35.1   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/11/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.3   39.2   33.0     12/12/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     12/13/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.9   33.3     12/14/2011   36.4   40.0   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0     12/15/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/16/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.4   39.9   34.0   36.1   39.9   33.4     12/18/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.3   39.1   33.1   35.0   38.8   32.4     12/18/2011   36.6   39.6   34.5   36.1   39.1   34.0   35.8   39.8   33.2   35.6   39.8   32.7     12/20/2011   36.6   39.6   34.5   36.1   39.1   34.0   35.8   39.8   33.2   35.6   39.8   32.7     12/20/2011   36.1   40.3   34.4   35.6   39.3   33.5   35.1   39.0   32.5   34.9   39.3   32.0     12/12/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/21/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   38.7   32.0     12/21/2011   36.2   40.0   34.1   35.6   39.8   33.1   32.0   33.5   37.6   31.9   33.1   36.9   32.0     12/21/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.5   37.6   31.9   33.1   36.9   32.0     12/22/2011   36.9   40.0   34.1   35.6   39.8   33.1   32.0   33.5   37.3   31.9   33.0   36.6   32.0     12/23/2011   36.9   40.0   34.1   35.6   39.8   33.1   33.5   35.1   39.3   32.3   34.8   38.9   32.0     12/26/2011   36.9   40.0   34.1   35.6   39.4	12/5/2011	38.2	41.7	36.3	37.4	40.8	35.5	36.8	40.5	34.5	36.5	40.3	34.0
12/8/2011   38.3   41.6   36.7   37.4   40.8   35.8   36.9   40.8   34.7   36.6   40.6   34.1     12/9/2011   37.6   41.6   35.4   36.8   40.7   34.6   36.1   40.5   33.4   35.8   40.2   32.6     12/10/2011   37.2   40.6   35.1   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/11/2011   37.1   40.5   35.6   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/12/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     12/13/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.9   33.3     12/14/2011   36.4   40.0   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0     12/15/2011   37.5   40.7   35.6   36.8   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/16/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.3   39.1   33.1   35.0   38.8   32.4     12/19/2011   36.2   40.1   34.0   35.7   39.5   33.4   35.2   39.5   32.5   34.9   39.3     12/19/2011   36.2   39.9   34.2   35.6   39.9   34.9   36.0   38.9   32.5   34.9   39.3     12/20/2011   36.2   39.9   34.2   35.6   39.1   34.0   35.8   39.1   33.1   35.0   38.8   32.0     12/20/2011   36.6   39.6   34.5   36.1   39.1   34.0   35.8   39.8   33.2   35.6   39.8   32.7     12/20/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   39.5   32.2     12/21/2011   35.0   38.9   33.0   34.4   38.4   32.3   33.5   37.6   31.9   33.1   36.9   32.0     12/23/2011   35.4   39.2   33.2   34.9   38.7   32.0   33.5   37.3   31.9   33.0   36.6   32.0     12/23/2011   36.2   40.0   34.1   35.6   39.4   33.5   35.1   39.3   32.3   34.8   38.9   32.0     12/23/2011   36.2   40.0   34.1   35.6   39.4   33.5   35.1   39.3   32.3   34.8   38.9   32.0     12/23/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.9   40.1   33.4   35.6   39.9   32.7     12/28/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.9   40.1   33.4   35.6   39.9   32.7     12/28/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.9   40.1   33.4   35.6	12/6/2011	37.8	42.0	35.7	37.0	41.1	34.8	36.2	40.7	33.4	35.7	40.4	32.5
12/9/2011   37.6		38.3	42.2	36.3		41.3	35.4	36.9		34.3	36.6	41.0	33.5
12/10/2011   37.2   40.6   35.1   36.4   39.8   34.2   35.6   39.6   32.9   35.2   39.3   32.2     12/11/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.3   39.2   33.0     12/12/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     12/13/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.8   32.0     12/14/2011   36.4   40.0   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0     12/15/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/16/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.4   39.9   34.0   36.1   39.9   33.4     12/17/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.3   39.1   33.1   35.0   38.8   32.0     12/18/2011   36.2   40.1   34.0   35.7   39.5   33.4   35.2   39.5   32.5   34.9   39.3   32.0     12/19/2011   36.6   39.6   34.5   36.1   39.1   34.0   35.8   39.8   33.2   35.6   39.8   32.7     12/20/2011   36.1   40.3   34.4   35.6   39.7   33.8   35.1   39.0   32.5   34.9   39.5   32.2     12/21/2011   35.0   38.9   33.0   34.4   35.6   39.7   33.8   35.1   39.7   32.7   34.9   39.5   32.2     12/22/2011   35.0   38.9   33.0   34.4   35.6   39.7   33.8   35.1   39.7   32.7   34.9   39.5   32.2     12/23/2011   35.0   38.9   33.0   34.4   35.6   39.7   33.8   35.1   39.7   32.7   34.9   39.5   32.2     12/23/2011   35.0   38.9   33.0   34.4   35.6   39.8   33.5   35.1   39.7   32.7   34.9   39.5   32.2     12/23/2011   35.0   38.9   33.2   34.9   38.7   32.6   34.2   38.3   31.9   33.8   37.8   32.0     12/24/2011   35.4   39.2   33.2   34.9   38.7   32.6   34.2   38.3   31.9   33.8   37.8   32.0     12/26/2011   36.2   40.0   34.1   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/27/2011   36.9   40.0   34.1   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/28/2011   36.1   40.4   34.0   35.6   39.8   33.4   33.5   35.1   39.3   32.3   34.8   38.9   32.0     12/28/2011   36.1   40.4   34													
12/11/2011   37.1   40.5   35.6   36.4   39.8   34.8   35.7   39.5   33.7   35.3   39.2   33.0     12/12/2011   37.0   40.0   35.0   36.3   39.1   34.2   35.6   38.8   33.0   35.1   38.5   32.3     12/13/2011   37.0   40.0   35.2   36.3   39.2   34.6   35.8   39.1   33.7   35.6   38.9   33.3     12/14/2011   36.4   40.0   34.4   35.7   39.2   33.7   35.1   38.9   32.6   34.8   38.8   32.0     12/15/2011   37.1   39.8   35.5   36.5   39.1   34.9   36.0   38.9   34.3   35.8   38.7   33.9     12/16/2011   37.5   40.7   35.6   36.8   39.9   34.9   36.4   39.9   34.0   36.1   39.9   33.4     12/17/2011   36.5   40.1   34.9   35.9   39.4   34.2   35.3   39.1   33.1   35.0   38.8   32.4     12/18/2011   36.2   40.1   34.0   35.7   39.5   33.4   35.2   39.5   32.5   34.9   39.3   32.0     12/19/2011   36.6   39.6   34.5   36.1   39.1   34.0   35.8   39.8   33.2   35.6   39.8   32.7     12/20/2011   36.1   40.3   34.4   35.6   39.3   33.5   35.1   39.7   32.7   34.9   39.5   32.2     12/12/2011   35.0   38.9   33.0   34.4   38.4   32.3   33.5   37.6   31.9   33.1   36.9   32.0     12/23/2011   35.4   39.2   33.2   34.9   38.7   32.6   34.2   38.3   31.9   33.8   37.8   32.0     12/23/2011   36.1   40.4   34.0   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/23/2011   35.4   39.2   33.2   34.9   38.7   32.6   34.2   38.3   31.9   33.8   37.8   32.0     12/23/2011   36.1   40.4   34.0   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/23/2011   36.1   40.4   34.0   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/25/2011   36.1   40.4   34.0   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/26/2011   36.2   40.0   34.1   35.6   39.8   33.4   34.9   39.4   32.2   34.5   38.9   32.0     12/26/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.1   39.3   32.3   34.8   38.9   32.0     12/27/2011   36.9   40.9   34.9   36.4   40.3   34.3   35.9   40.1   34.4   37.1   41.1   34.1     12/29/2011   38.3   41.6   36.5   37.8   40.9   36.0   37.7   40													
12/12/2011         37.0         40.0         35.0         36.3         39.1         34.2         35.6         38.8         33.0         35.1         38.5         32.3           12/13/2011         37.0         40.0         35.2         36.3         39.2         34.6         35.8         39.1         33.7         35.6         38.9         33.3           12/14/2011         36.4         40.0         34.4         35.7         39.2         33.7         35.1         38.9         32.6         34.8         38.8         32.0           12/15/2011         37.1         39.8         35.5         36.5         39.1         34.9         36.0         38.9         34.3         35.8         38.7         33.9           12/16/2011         37.5         40.7         35.6         36.8         39.9         34.9         36.4         39.9         34.0         36.1         39.9         33.4           12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.2           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         <													
12/13/2011         37.0         40.0         35.2         36.3         39.2         34.6         35.8         39.1         33.7         35.6         38.9         33.3           12/14/2011         36.4         40.0         34.4         35.7         39.2         33.7         35.1         38.9         32.6         34.8         38.8         32.0           12/15/2011         37.1         39.8         35.5         36.5         39.1         34.9         36.0         38.9         34.3         35.8         38.7         33.9           12/16/2011         37.5         40.7         35.6         36.8         39.9         34.9         36.4         39.9         34.0         36.1         39.9         33.4           12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.4           12/18/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.6         39.4         35.6         39.3         33.5         35.1         <													
12/14/2011         36.4         40.0         34.4         35.7         39.2         33.7         35.1         38.9         32.6         34.8         38.8         32.0           12/15/2011         37.1         39.8         35.5         36.5         39.1         34.9         36.0         38.9         34.3         35.8         38.7         33.9           12/16/2011         37.5         40.7         35.6         36.8         39.9         34.9         36.4         39.9         34.0         36.1         39.9         33.4           12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.4           12/18/2011         36.2         40.1         34.0         35.7         39.5         33.4         35.2         39.5         32.5         34.9         39.3         32.0           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.1         40.3         34.4         35.6         39.3         33.5         <													
12/15/2011         37.1         39.8         35.5         36.5         39.1         34.9         36.0         38.9         34.3         35.8         38.7         33.9           12/16/2011         37.5         40.7         35.6         36.8         39.9         34.9         36.4         39.9         34.0         36.1         39.9         33.4           12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.4           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.5         32.5         34.9         39.3         32.0           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.1         40.3         34.4         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         38.4         32.3         33.5         <													
12/16/2011         37.5         40.7         35.6         36.8         39.9         34.9         36.4         39.9         34.0         36.1         39.9         33.4           12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.4           12/18/2011         36.2         40.1         34.0         35.7         39.5         33.4         35.2         39.5         32.5         34.9         39.3         32.0           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.2         39.9         34.2         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         35.6         39.7         33.8         35.1         39.0         32.7         34.9         38.7         32.2           12/22/2011         35.0         38.9         33.0         34.4         38.4         32.3         <													
12/17/2011         36.5         40.1         34.9         35.9         39.4         34.2         35.3         39.1         33.1         35.0         38.8         32.4           12/18/2011         36.2         40.1         34.0         35.7         39.5         33.4         35.2         39.5         32.5         34.9         39.3         32.0           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.2         39.9         34.2         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         35.6         39.7         33.8         35.1         39.7         32.7         34.9         39.5         32.2           12/23/2011         35.0         38.9         33.0         34.4         38.4         32.3         33.5         37.6         31.9         33.1         36.9         30.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         <											1		
12/18/2011         36.2         40.1         34.0         35.7         39.5         33.4         35.2         39.5         32.5         34.9         39.3         32.0           12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.2         39.9         34.2         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         35.6         39.7         33.8         35.1         39.7         32.7         34.9         39.5         32.2           12/22/2011         35.0         38.9         33.0         34.4         38.4         32.3         33.5         37.6         31.9         33.1         36.9         32.0           12/23/2011         34.9         38.7         32.3         34.3         38.1         32.0         33.5         37.3         31.9         33.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         <													
12/19/2011         36.6         39.6         34.5         36.1         39.1         34.0         35.8         39.8         33.2         35.6         39.8         32.7           12/20/2011         36.2         39.9         34.2         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         35.6         39.7         33.8         35.1         39.7         32.7         34.9         39.5         32.2           12/22/2011         35.0         38.9         33.0         34.4         38.4         32.3         33.5         37.6         31.9         33.1         36.9         32.0           12/23/2011         34.9         38.7         32.3         34.3         38.1         32.0         33.5         37.3         31.9         33.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         34.2         38.3         31.9         33.8         37.8         32.0           12/25/2011         36.1         40.4         34.0         35.6         39.8         33.4         <													
12/20/2011         36.2         39.9         34.2         35.6         39.3         33.5         35.1         39.0         32.5         34.9         38.7         32.0           12/21/2011         36.1         40.3         34.4         35.6         39.7         33.8         35.1         39.7         32.7         34.9         39.5         32.2           12/22/2011         35.0         38.9         33.0         34.4         38.4         32.3         33.5         37.6         31.9         33.1         36.9         32.0           12/23/2011         34.9         38.7         32.3         34.3         38.1         32.0         33.5         37.3         31.9         33.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         34.2         38.3         31.9         33.8         37.8         32.0           12/25/2011         36.1         40.4         34.0         35.6         39.8         33.4         34.9         39.4         32.2         34.5         38.9         32.0           12/26/2011         36.2         40.0         34.1         35.6         39.4         33.5         <													
12/22/2011         35.0         38.9         33.0         34.4         38.4         32.3         33.5         37.6         31.9         33.1         36.9         32.0           12/23/2011         34.9         38.7         32.3         34.3         38.1         32.0         33.5         37.3         31.9         33.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         34.2         38.3         31.9         33.8         37.8         32.0           12/25/2011         36.1         40.4         34.0         35.6         39.8         33.4         34.9         39.4         32.2         34.5         38.9         32.0           12/26/2011         36.2         40.0         34.1         35.6         39.4         33.5         35.1         39.3         32.3         34.8         38.9         32.0           12/27/2011         36.9         40.9         34.9         36.4         40.3         34.3         35.9         40.1         33.4         34.8         38.9         32.0           12/27/2011         36.9         40.9         34.3         35.9         40.1         33.4         <	12/20/2011												
12/23/2011         34.9         38.7         32.3         34.3         38.1         32.0         33.5         37.3         31.9         33.0         36.6         32.0           12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         34.2         38.3         31.9         33.8         37.8         32.0           12/25/2011         36.1         40.4         34.0         35.6         39.8         33.4         34.9         39.4         32.2         34.5         38.9         32.0           12/26/2011         36.2         40.0         34.1         35.6         39.4         33.5         35.1         39.3         32.3         34.8         38.9         32.0           12/27/2011         36.9         40.9         34.9         36.4         40.3         34.3         35.9         40.1         33.4         35.6         39.9         32.7           12/28/2011         38.1         41.6         35.7         37.5         40.9         35.1         37.3         41.1         34.4         37.1         41.1         34.1           12/29/2011         38.3         41.6         36.5         37.8         40.9         36.0         <		36.1	40.3	34.4	35.6	39.7	33.8	35.1	39.7	32.7	34.9	39.5	
12/24/2011         35.4         39.2         33.2         34.9         38.7         32.6         34.2         38.3         31.9         33.8         37.8         32.0           12/25/2011         36.1         40.4         34.0         35.6         39.8         33.4         34.9         39.4         32.2         34.5         38.9         32.0           12/26/2011         36.2         40.0         34.1         35.6         39.4         33.5         35.1         39.3         32.3         34.8         38.9         32.0           12/27/2011         36.9         40.9         34.9         36.4         40.3         34.3         35.9         40.1         33.4         35.6         39.9         32.7           12/28/2011         38.1         41.6         35.7         37.5         40.9         35.1         37.3         41.1         34.4         37.1         41.1         34.1           12/29/2011         38.3         41.6         36.5         37.8         40.9         36.0         37.7         40.9         35.5         37.6         40.8         35.3           12/30/2011         37.4         40.8         35.4         36.9         40.3         35.1         <					34.4	38.4		33.5				36.9	
12/25/2011     36.1     40.4     34.0     35.6     39.8     33.4     34.9     39.4     32.2     34.5     38.9     32.0       12/26/2011     36.2     40.0     34.1     35.6     39.4     33.5     35.1     39.3     32.3     34.8     38.9     32.0       12/27/2011     36.9     40.9     34.9     36.4     40.3     34.3     35.9     40.1     33.4     35.6     39.9     32.7       12/28/2011     38.1     41.6     35.7     37.5     40.9     35.1     37.3     41.1     34.4     37.1     41.1     34.1       12/29/2011     38.3     41.6     36.5     37.8     40.9     36.0     37.7     40.9     35.5     37.6     40.8     35.3       12/30/2011     37.4     40.8     35.4     36.9     40.3     35.1     36.8     40.9     34.5     36.9     41.1     34.0													
12/26/2011     36.2     40.0     34.1     35.6     39.4     33.5     35.1     39.3     32.3     34.8     38.9     32.0       12/27/2011     36.9     40.9     34.9     36.4     40.3     34.3     35.9     40.1     33.4     35.6     39.9     32.7       12/28/2011     38.1     41.6     35.7     37.5     40.9     35.1     37.3     41.1     34.4     37.1     41.1     34.1       12/29/2011     38.3     41.6     36.5     37.8     40.9     36.0     37.7     40.9     35.5     37.6     40.8     35.3       12/30/2011     37.4     40.8     35.4     36.9     40.3     35.1     36.8     40.9     34.5     36.9     41.1     34.0											1		
12/27/2011     36.9     40.9     34.9     36.4     40.3     34.3     35.9     40.1     33.4     35.6     39.9     32.7       12/28/2011     38.1     41.6     35.7     37.5     40.9     35.1     37.3     41.1     34.4     37.1     41.1     34.1       12/29/2011     38.3     41.6     36.5     37.8     40.9     36.0     37.7     40.9     35.5     37.6     40.8     35.3       12/30/2011     37.4     40.8     35.4     36.9     40.3     35.1     36.8     40.9     34.5     36.9     41.1     34.0													
12/28/2011     38.1     41.6     35.7     37.5     40.9     35.1     37.3     41.1     34.4     37.1     41.1     34.1       12/29/2011     38.3     41.6     36.5     37.8     40.9     36.0     37.7     40.9     35.5     37.6     40.8     35.3       12/30/2011     37.4     40.8     35.4     36.9     40.3     35.1     36.8     40.9     34.5     36.9     41.1     34.0													
12/29/2011     38.3     41.6     36.5     37.8     40.9     36.0     37.7     40.9     35.5     37.6     40.8     35.3       12/30/2011     37.4     40.8     35.4     36.9     40.3     35.1     36.8     40.9     34.5     36.9     41.1     34.0													
12/30/2011 37.4 40.8 35.4 36.9 40.3 35.1 36.8 40.9 34.5 36.9 41.1 34.0													
222 233 233 233 233 233 233 233 233 233													
	12,71/2011	33.2	.5.0	5 1.0	] 55.7	37.3	55.5	33.4	37.0	52.0	33.2	32.4	J.2.1

FINAL REPORT: Monitoring Results and Analyses for RY2011-12

	Rusl	h above Parl	ker	Ве	low Narrow	/S	Rus	h 10 CH Fa	lls	Ru	sh County R	Rd
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
1/1/2012	36.6	40.4	34.8	36.1	39.9	34.2	35.7	40.0	33.2	35.6	40.0	32.6
1/2/2012	36.9	40.7	34.7	36.4	40.1	34.1	36.2	40.3	33.3	36.0	40.4	32.9
1/3/2012	37.2	40.7	35.5	36.9	40.5	35.2	36.9	40.9	35.0	37.0	41.0	34.9
1/4/2012	37.0	40.8	35.2	36.7	40.6	34.8	36.6	40.9	34.1	36.5	40.9	33.7
1/5/2012	37.3	41.0	35.6	37.1	40.8	35.2	37.0	41.1	34.5	36.9	41.2	34.1
1/6/2012	36.9	40.7	34.8	36.6	40.4	34.3	36.4	40.6	33.6	36.4	40.5	33.2
1/7/2012	36.0	39.6	34.3	35.6	39.3	33.8	35.1	39.2	33.0	35.1	39.0	32.6
1/8/2012	35.8	39.9	33.5	35.3	39.3	33.0	34.6	39.1	31.9	34.2	38.8	32.0
1/9/2012	36.8	40.8	34.8	36.3	40.1	34.2	35.8	40.3	33.2	35.6	40.3	32.6
1/10/2012	37.0	40.8	35.1	36.5	40.3	34.5	36.2	40.5	33.8	36.1	40.6	33.3
1/11/2012	36.3	40.3	34.1	35.8	39.6	33.6	35.3	39.7	32.6	35.2	39.7	32.0
1/12/2012	35.9	40.2	33.8	35.4	39.6	33.3	34.9	39.6	32.2	34.6	39.5	32.0
1/13/2012	35.7	39.9	33.4	35.2	39.5	32.9	34.5	39.5	31.9	34.3	39.2	32.0
1/14/2012	35.9	40.3	33.5	35.4	39.9	33.0	34.8	39.8	31.9	34.4	39.5	32.0
1/15/2012	35.9	40.1	33.9	35.4	39.6	33.4	35.0	39.5	32.4	34.7	39.1	32.0
1/16/2012	35.0	38.5	33.1	34.6	38.2	32.8	34.0	37.9	32.0	33.8	37.6	32.0
1/17/2012	35.0	39.4	32.5	34.6	39.2	32.0	33.9	38.5	31.9	33.5	37.8	32.0
1/18/2012	37.5	41.4	35.5	37.0	41.0	35.1	37.0	41.0	34.6	36.9	40.8	34.4
1/19/2012	36.8	39.9	34.8	36.4	39.6	34.4	36.4	40.4	33.6	36.5	40.9	33.2
1/20/2012	37.4	39.2	36.2	37.1	38.9	35.9	37.4	39.0	35.7	37.5	39.5	35.6
1/21/2012	36.0	38.0	33.4	35.4	37.3	32.9	35.4	37.7	32.3	35.8	38.3	32.6
1/22/2012	35.4	38.9	33.1	34.8	37.9	32.7	34.5	38.3	32.0	34.2	38.2	32.0
1/23/2012	36.2	38.3	34.6	35.7	37.6	34.3	35.9	38.1	34.3	36.1	38.4	34.2
1/24/2012	36.3	39.7	34.1	35.8	39.1	33.7	35.9	39.5	33.6	36.0	39.7	33.5
1/25/2012	36.6	40.8	34.5	36.3	40.6	34.1	36.4	41.1	33.7	36.6	41.3	33.5
1/26/2012	37.1	42.1	34.7	36.9	42.0	34.3	37.0	42.5	33.7	37.1	42.8	33.5
1/27/2012	36.9	40.4	34.7	36.8	40.4	34.5	36.9	41.1	34.2	37.2	41.6	35.1
1/28/2012	35.7	40.1	33.2	35.3	39.6	32.8	35.0	39.9	32.0	34.9	40.1	32.0
1/29/2012	36.1	40.1	33.9	35.6	39.2	33.6	35.4	40.0	32.7	35.3	40.3	32.2
1/30/2012	37.3	41.0	35.4	37.0	40.7	35.0	37.1	41.2	34.6	37.2	41.5	34.5
1/31/2012	37.3	41.6	34.7	37.1	41.4	34.3	37.2	41.8	34.0	37.4	42.0	33.8
2/1/2012	36.6	40.9	34.4	36.4	40.7	34.1	36.6	41.0	33.9	36.8	41.1	33.7
2/2/2012	35.7	40.7	33.0	35.2	39.5	32.5	35.0	40.0	32.0	35.0	40.1	32.0
2/3/2012	35.0	40.6	31.9	34.4	39.3	31.9	33.9	39.2	32.0	33.7	38.5	32.0
2/4/2012	35.1	40.5	32.1	34.5	39.5	31.9	34.1	39.6	32.0	33.9	39.2	32.0
2/5/2012	35.2	40.6	32.3	34.7	39.7	32.0	34.3	39.9	32.0	34.1	39.8	32.0
2/6/2012	35.1	40.1	32.0	34.5	39.1	32.0	34.2	39.4	32.0	34.0	38.9	32.0
2/7/2012	36.0	38.5	34.6	35.6	37.9	34.1	35.6	38.3	33.9	35.6	38.3	33.7
2/8/2012	36.5	42.2	33.0	36.1	41.4	32.7	36.2	41.8	32.3	36.3	42.0	32.1
2/9/2012	37.1	43.3	33.4	36.6	42.4	32.9	36.5	42.5	32.3	36.6	42.6	32.0
2/10/2012	37.4	43.6	33.9	37.1	43.3	33.5	37.2	43.6	32.8	37.4	43.7	32.5
2/11/2012	37.0	42.2	33.6	36.8	42.0	33.3	37.0	42.4	32.9	37.1	42.6	32.6
2/12/2012	37.9	43.1	34.3	37.7	42.8	33.9	37.7	43.0	33.5	37.8	43.2	33.4
2/13/2012	37.1	40.8	35.3	36.9	40.3	35.1	37.1	41.0	35.0	37.5	41.6	34.8
2/14/2012	37.7	43.1	35.1	37.5	42.8	34.7	37.6	43.1	34.5	37.7	43.3	34.4
2/15/2012	35.6	39.9	32.7	35.1	38.7	32.4	34.8	37.8	32.3	34.8	37.4	32.0
2/16/2012	36.6	42.4	33.3	36.0	41.2	32.8	35.7	41.6	32.2	35.7	41.8	32.0
2/17/2012	36.6	43.6	32.5	35.8	41.2	32.0	35.7	42.3	32.0	35.6	42.9	32.0
2/18/2012	36.7	40.9	33.9	36.1	39.8	33.4	35.9	39.8	32.5	35.9	40.0	32.1
2/19/2012	36.9	42.3	34.1	36.4	41.8	33.6	36.3	41.8	33.0	36.4	42.0	32.6
2/20/2012	37.9	43.6	34.7	37.5	43.1	34.2	37.6	43.2	33.7	37.6	43.4	33.5
2/21/2012	37.9	43.4	34.7	37.6	43.1	34.2	37.7	43.4	33.6	37.8	43.4	33.2
2/22/2012	38.5	44.8	35.0	38.2	44.7	34.5	38.5	45.4	33.9	38.7	45.7 45.6	33.6
2/23/2012	38.4	44.7	35.0	38.3	44.6	34.5	38.4	45.2	34.0	38.7	45.6	33.7
2/24/2012 2/25/2012	38.6	45.9	34.4	38.3	45.6 44.4	33.8	38.4	46.1 44.7	33.1	38.6	46.1	32.7
2/25/2012 2/26/2012	38.1 36.4	44.3	34.8 32.4	38.1	44.4 42.2	34.4 32.0	38.3 35.5	44. / 42.1	34.2 32.0	38.8	44.9 41.7	34.1
2/26/2012 2/27/2012	36.4	43.4 42.4	32.4	35.8	42.2	32.0	35.5 36.1	42.1 41.8	32.0 32.9	35.5	41.7	32.0 32.3
2/2//2012 2/28/2012	36.6 37.3		34.1 32.7	36.1 36.5	40.6	33.6 32.1	36.1 36.3			36.0 36.2	41.7	
2/28/2012 2/29/2012	37.3 36.4	44.1 40.0	32.7 34.7	36.5 35.9	41.6 39.0	32.1 34.2	36.3 35.9	43.0 39.6	32.0 33.6	36.2 36.2	43.1 39.7	32.0 33.5
414714V14	30.4	40.0	J <del>4</del> ./	33.9	39.0	34.4	33.7	37.0	33.0	30.2	39.1	33.3

FINAL REPORT: Monitoring Results and Analyses for RY2011-12

	Rush above Parker			Below Narrows			Rush 10 CH Falls			Rush County Rd		
Date	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
3/1/2012 3/2/2012	36.3 37.6	41.6 44.7	33.6 33.2	35.8 37.0	41.0 43.6	33.2 32.9	36.0 37.0	42.0 43.9	32.6 32.2	36.0 37.1	43.4 44.3	32.1 32.0
3/3/2012 3/4/2012	38.4 39.1	46.2 46.8	33.9 34.6	37.8 38.8	45.1 46.7	33.4 34.1	37.9 39.2	45.1 47.4	32.3 33.4	38.0 39.5	45.9 47.6	32.0 33.1
3/5/2012	39.1	46.8	34.7	38.9	46.9	34.1	39.1	47.5	33.3	39.5	47.8	33.0
3/6/2012	37.0	42.4	33.4	36.8	42.4	33.0	37.1	43.1	32.8	37.6	43.2	34.1
3/7/2012	36.1	43.9	31.9	35.3	42.2	32.0	35.0	42.3	32.0	34.8	42.0	32.0
3/8/2012	38.0	46.3	33.0	37.1	43.8	32.4	36.9	44.5	32.0	36.9	45.2	32.0
3/9/2012	38.9	47.1	34.0									
3/10/2012	39.2	46.8	34.5									
3/11/2012	39.9	47.6	35.7									
3/12/2012	39.5	45.8	36.0									
3/13/2012	38.9	44.4	36.0									