Lewis Engineering, PLLC
44 Stark Lane
Litchfield, NH 03052
lewis.h2o@comcast.net

E-mail Correspondence

April 28, 2008

Mr. Stephen Roy, P.G.
New Hampshire Department of Environmental Services
Drinking Water and Groundwater Bureau
P.O. Box 95
Concord, NH 03302-0095

Re: Paradise Shores, Moultonborough, NH, EPA # 1612010
Letter of Deficiency # DWBG 08-033 – Responding to Item 2

Dear Stephen:

Subsequent to the above referenced Letter of Deficiency, Lewis Engineering, PLLC was retained by Lakes Region Water Company (LRWC), Tom Mason, Sr., as their water system consultant for Paradise Shores in this matter. We have been retained to keep the NHDES DWGB up to date, through your good office, with ongoing progress as the water system addresses the issues outlined in the LOD.

As a short recapitulation, Lewis Engineering and LRWC have been addressing water supply issues; the first being recommendations to address a possible water shortage during the upcoming summer months. In our first LOD (Item 1) response letter, dated March 31, we addressed steps being undertaken to mitigate potential water shortage issues during the summer of 2008. This included rehabilitation work on Well No. 7, installation of the new 12-inch diameter PVC / HDPE transmission main from the Paradise Shores well field area into the new 325,000 gallon concrete water storage facility, as well as assessing ongoing development of water sources near the tank, consumer education / outreach, and ongoing assessment of water use and continuing leak detection efforts.

Update Summary

We appreciate the time you spent meeting with us at LRWC on April 11. The effort to provide an adequate water supply to the Paradise Shores water system that is comprised of the Balmoral / Suissevale Water Systems continues to move ahead. As discussed on the 11th, existing Well No.7 was cleaned and rehabilitated this spring by Skillings and Sons Well Drilling. This existing LRWC well is permitted at 75 gpm. LRWC has ordered a

new pump which will be installed during the next week. The well will then be step-tested in the immediate future with the oversight of Fred Bickford from Hydro-Source. Work is continuing toward the completion of the water tank and placing it in service. The new transmission main work is being scheduled from the Paradise Shores metering station, along State Route 109, and up into the new tank.

Addressing LOD Item #2

The balance of this correspondence is intended to address Item 2 in the LOD. This part of the LOD response is intended to address an assessment of the present as well as future water demands for the Paradise Shores water system.

Executive Summary Points:

- The Paradise Shores water system is owned and operated by Lakes Region Water Company. There is a master meter at the distribution system entry point. The water system consists of two separate community water systems. The first is Balmoral. This is a 375 residential customer system. All homes have individual water meters. The second is a single wholesale customer, Suissevale. Suissevale has a single master meter. The Suissevale community reports that they have 352 customers currently connected to their water distribution system.

- The projected full buildout consists of Balmoral with 425 customers, Suissevale with 402 connections, and additional future estimated connections of 73 for a total of 900 residential water customers. A schematic layout exhibit is provided.

- LRWC plans to have the new 325,000 gallon water storage facility and transmission main in service on or before June 15.

- Based on an analysis of actual summer month water sales data from Balmoral, plus Master Meter data from Paradise Shores and Suissevale certain conclusions have been drawn. The highest average customer use from summer 2007 data was 124 gallons per customer per day, based on Suissevale water consumption through their master meter. This reflects all water use, including unaccounted for water. The assumed unaccounted for water is 15%.

- Based on available data from LRWC, the high use Paradise Master Meter (all water uses for both systems, including leaks) pumping week during 2007 has been identified as July 30 – August 6, 2007. There was an average 4 day demand of 81,000 gpd, plus the 3 day weekend (Fri., Sat., Sun.) average of 127,580 gpd. Total water pumped was therefore 706,740 gallons, or an average of 101,000 gpd. Assuming that an average pumping time on wells is 16 hours per day an average of 105 gpm of well capacity is required with 140 gpm required at an average of 12 hours of run time. There is a reported total of 145 gpm PPV from the existing Paradise well field. There is also the opportunity to seek an emergency well

connection water use from an existing test well in the vicinity of the new water storage facility. Our conclusion is that the water supply needs for the summer of 2008 may be met with a combination of existing Paradise Well Field wells, and the new water storage facility being in service. This is backed up by having the existing test well near the water storage facility available, if needed, in an emergency.

- In order to address future (10 – 15 years) buildout conditions with 900 customers, additional water supply well capacity will be required. On a direct ratio basis, the customer base will increase by 24%. We would suggest that given the size of this proposed system that a reasonable water supply strategy will be able to supply water needs as described above, in 16 hours, with the largest well (assuming for now 75 gpm) out of service. Based on the above analysis, a total supply of 205 gpm (130 gpm total + 75 gpm out of service) will be the target water supply capacity for the Paradise Shores water system.

Details Relative to Summary Points:

1. Paradise Shores consists of two water distribution systems. LRWC owns and operates the Balmoral CWS with 375 individually metered residential customers. LRWC also sells water to the 352 units in the Suissevale CWS. Suissevale is a wholesale customer that is billed using a single master meter.

2. There is a master water meter at the distribution entry point to the Paradise Shores area. This meter records all water pumped to the total system. By subtracting the Suissevale CWS master water meter reading from the Paradise Shores master meter reading, the total amount of water delivered into the Balmoral CWS distribution system is calculated.

3. Based on the above, it is possible to monitor the percentages of total water use by each of the respective communities.

4. The Balmoral CWS has actual individual residential water meters installed in the units. We have provided an analysis of the average gallons sold per customer per day for Balmoral customers. The time frame used was July 1, 2007 through September 30, 2007. An exhibit is attached. The average day for this high use Q3 period was 94 gpd/customer, as compared to the following Q4 period that averaged 58 gpd/customer.

5. The water usage per customer for Suissevale for the same Q3 period was also calculated. The gross water use per customer, which would include any system leaks, for Suissevale was also calculated at 124 gpd/customer. For Q4 2007 the customer usage was calculated at 51 gpd/customer.

6. Water usage in the two communities was shown to increase by approximately 40 percent during weekend and weekend / holiday periods based on meter readings taken during Q3 2007.

7. We believe that for the most part the two residential water systems are of an equivalent demographic mix, home age, home style, and therefore water use patterns should be similar. We believe that the primary difference between the two calculated readings likely reflects some level of additional lawn irrigation within Suissevale as compared to Balmoral during Q3 along with some unaccounted for water.

8. Under the existing conditions the total gallons sold in Balmoral during Q3 2007, totaled 2,745,160 gallons. This was over a 92 day period thus averaging 29,838 gpd or 94 gallons per customer per day. Actual system water pumped to Balmoral was calculated at 109 gallons per customer per day. The difference between the master meter pumpage and the water sales in Balmoral amounts to 13.9 percent unaccounted for water. The calculated water usage at Suissevale was calculated as 124 gallons per customer per day.

9. In discussions last July at a meeting held in DES offices on July 13, 2007, where Suissevale representatives were present, they indicated that full build out of their area would include no more than 50 additional service connections beyond their 352 units. In Balmoral the estimated maximum additional connections has been estimated at 50 beyond their existing 375 units. In addition, we have added an additional "potential future service connections" of 73. This totals an "at build-out" number of 900 residential customers.

10. Based upon the water usage from Q3 2007 at 124 gallons per customer per day; the calculated future water usage for the potential 900 residential customers would amount to 111,600 gallons per day or 155 gallons per minute based on a 12 hour pumpage period for the wells. For a near future customer count of 750 customers (352 Suissevale + 375 Balmoral + 23 new) the daily demand would amount to 93,000 gallons per day or 129 gallons per day based on a 12 hour maximum pumpage period for the production wells. The production wells would have to pump at 97 gpm for 16 hours to meet the 93,000 gpd system demand. Our long term recommendation, however, is based on a 16 hour run time during a projected high use summer week, with the largest well (assumed to be 75 gpm) out of service.

11. Under the currently reported approved permitted production volume (PPV) of 145 gpm from the Paradise Shores well field (75gpm, 35gpm and 35 gpm), the near future conditions may be met, unless the largest well is out of service. If this were the case, and only 70 gpm were available from the well field, the near future Q3 average day could be met with two wells running 22 hours per day. In keeping within a program of an average of 12 hours of run time on wells, with

the largest well out of service, there is a short fall of 129 gpm – 75 gpm = 54 gpm. This would be reflective of the minimum additional water that would be required from other (projected to be near the water tank) sources of water.

12. Under the assumption that with "unaccounted for" water, the total maximum week during the summer quarter water use for 900 customers would be 111,000+/- gpd, or 77 gpm. If this number is doubled to reflect a 2.0 safety factor, then 154 gpm would be required. Given this future projected number of customers, we would suggest that the 154 gpm should be able to be supplied with the system's largest well out of service during a 16 hour pumping duration. This would seem to be very reasonable, given the water storage capacity of 325,000 gallons.

13. Under the present estimated water supply capacity, the Paradise Shores well field has 3 existing bedrock wells. Their reported yields are 75 gpm, 35 gpm and 35 gpm. This totals 145 gpm. If the 75 gpm well ultimately happens to be the largest well, then the proposed well field in the vicinity of the tank should be developed in a manner that will provide an additional minimum of 60 gpm in order to meet the future projected build-out numbers under the proposed water use projected in Item 8 at a total of 900 customers and the allowance of 16 hours per day pumping capacity, or a total of 205 gpm, from all sources of well water.

We trust that the information above adequately addresses Item 2 in the LOD. LRWC, Hydro-Source, and Lewis Engineering will continue to evaluate the system's existing sources. This will include all water sources intended to be used as long term sources of water to include the existing wells plus further development and evaluation of existing and proposed test wells. This work is currently under evaluation by LRWC and Hydro-Source.

Your continuing input and assistance on this project is appreciated. Please feel free to contact our office with any questions, comments, or if additional information is required at this time.

Further distribution of this correspondence is left to your discretion.

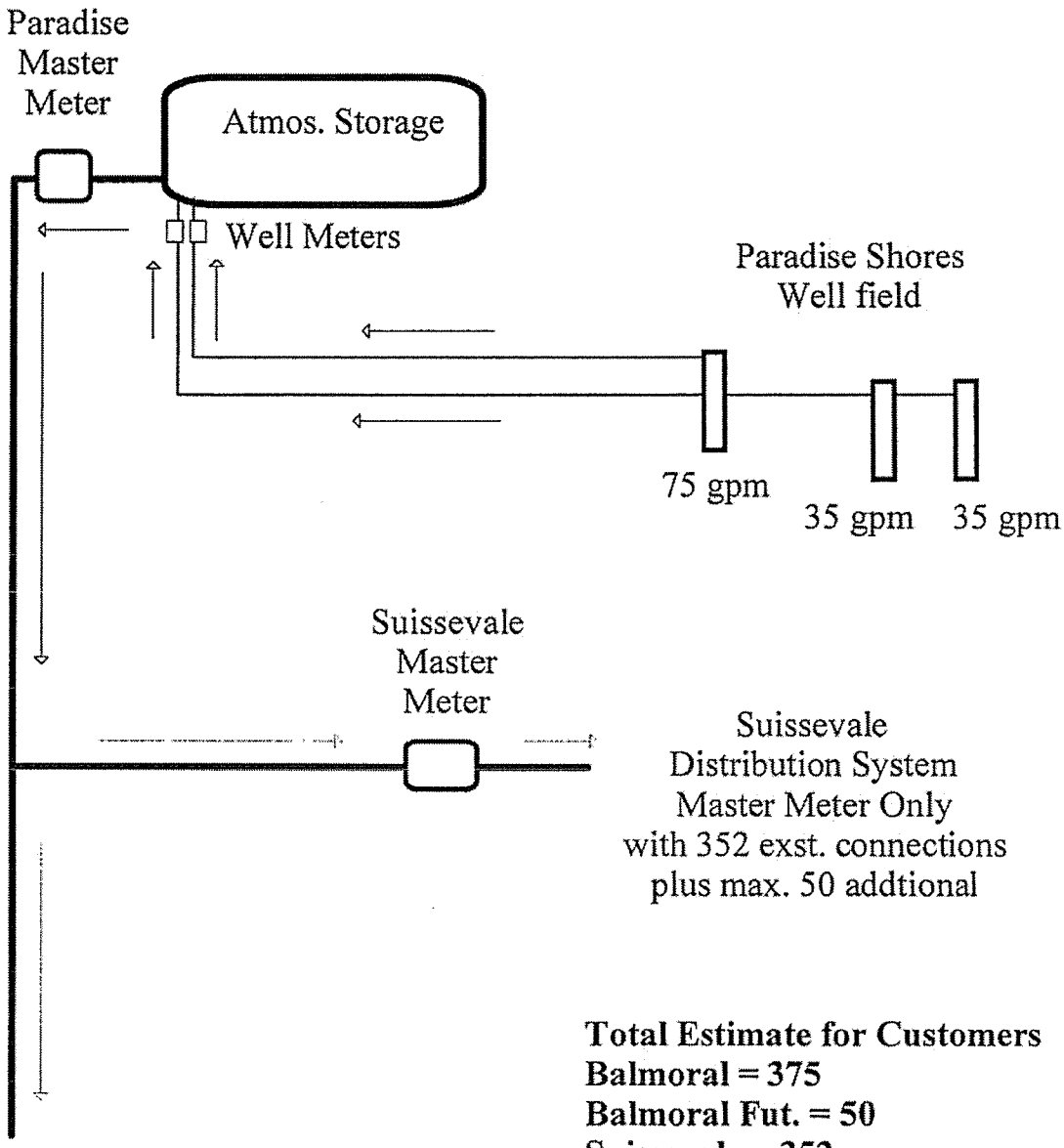
Respectfully,
Lewis Engineering, PLLC

Bruce W. Lewis

Bruce W. Lewis, P.E.

Cc: Tom Mason, Jr., Lake Region Water Co.
Fred Bickford, Hydro-Source
Jim Donison, N.E. Engineering

LRWC's Paradise Shores Water System Schematic
EPA # 1612010 - Existing Conditions



Total Estimate for Customers
Balmoral = 375
Balmoral Fut. = 50
Suissevale = 352
Suissevale Fut. = 50
Other Fut. connections = 73

Total of above = 900 Customers

Lewis Engineering
Litchfield, NH
April 2008
Ref. 2007.016
\200716DS

Paradise Shores Master Meter Pit (outgoing to PS & POASI)						Suissevale Eden Lane Meter (outgoing to POASI only)						Percentage of POASI use Suissevale Gal + PS Master Meter Pit)			Balmoral		
			Total Usage		All			POASI Usage			Suisse						
	Date	Reading	Cubic Feet	Gallons	gpd		Date	Reading	Cubic Feet	Gallons	gpd	Date	% of Daily Use	Avg per weekend	Gallons	gpd	
Wkend	7/13/07	00598131				Wkend	7/13/07	01159827				7/13/07					
	7/16/07	00634117	35,986	269,175	89,725		7/16/07	01179842	20,015	149,712	49,904	7/16/07	55.62%		119,463	39,821	44.38%
	7/17/07	00644874	10,757	80,462			7/17/07	01185880	6,038	45,164		7/17/07	56.13%				
	7/18/07	00654087	9,213	68,913			7/18/07	01190677	4,797	35,882		7/18/07	52.07%				
	7/19/07	00662842	8,755	65,487	140%		7/19/07	01195076	4,399	32,905	154%	7/19/07	50.25%				
Wkend	7/20/07	00672387	9,545	71,397	71,555	Wkend	7/20/07	01199614	4,538	33,944	36,974	7/20/07	47.54%	52.22%			
	7/23/07	00712512	40,125	300,135	100,045		7/23/07	01222446	22,832	170,783	56,928	7/23/07	56.90%		129,352	43,117	43.10%
	7/24/07	00722710	10,198	76,281			7/24/07	01228822	6,376	47,692		7/24/07	62.52%				
	7/25/07	00733076	10,366	77,538			7/25/07	01235100	6,278	46,959		7/25/07	60.56%				
	7/26/07	00744941	11,865	88,750	121%		7/26/07	01243202	8,102	60,603	120%	7/26/07	68.28%				
Wkend	7/27/07	00757573	12,632	94,487	84,264	Wkend	7/27/07	01251404	8,202	61,351	54,151	7/27/07	64.93%	64.43%			
	7/30/07	00798397	40,824	305,364	101,788		7/30/07	01277499	26,095	195,191	65,064	7/30/07	63.92%		110,173	36,724	36.08%
	7/31/07	00807693	9,296	69,534			7/31/07	01283859	6,360	47,573		7/31/07	68.42%				
	8/1/07	00819221	11,528	86,229			8/1/07	001291687	7,828	58,553		8/1/07	67.90%				
	8/2/07	00828995	9,774	73,110	158%		8/2/07	01298834	7,147	53,460	139%	8/2/07	73.12%				
Wkend	8/3/07	00841696	12,701	95,003	80,969	Wkend	8/3/07	01307421	8,587	64,231	55,954	8/3/07	67.61%	64.27%			
	8/6/07	00892973	51,277	383,552	127,851		8/6/07	01338669	31,248	233,735	77,912	8/6/07	60.94%		149,817	49,939	39.06%
	8/7/07	00901423	8,450	63,206			8/7/07	01345893	7,224	54,036		8/7/07	85.49%				
	8/8/07	00911896	10,473	78,338			8/8/07	01352545	6,652	49,757		8/8/07	63.52%				
	8/9/07	00923265	11,369	85,040	132%		8/9			652	126%	8/9/07	58.39%				
Wkend	8/10/07	00935246	11,981	89,618	79,051	Wkend	8/1			315	51,440	8/10/07	58.36%	60.36%			
	8/13/07	00977094	41,848	313,023	104,341		8/13			176	65,059	8/13/07	62.35%		117,847	39,282	37.65%
	8/14/07	00989488	12,394	92,707			8/1			151		8/14/07	56.25%				
	8/15/07	01001992	12,504	93,530			8/15/07	01404429	5,187	38,799		8/15/07	41.48%				
	8/16/07	01013351	11,359	84,965	117%	XXX	8/16/07	01404430	1	7	180%	8/16/07	0.01%				
Wkend	8/17/07	01024942	11,591	86,701	89,476		8/17/07	01409261	4,831	36,136	31,773	8/17/07	41.68%				
	8/20/07	01057065	42,123	315,080	105,027		8/20/07	01432258	22,997	172,018	57,339	8/20/07	54.59%		143,062	47,687	45.41%
	8/21/07	01077653	10,588	79,198			8/21/07	01437775	5,517	41,267		8/21/07	52.11%				
	8/22/07	01088022	10,369	77,560			8/22/07	01443489	5,714	42,741		8/22/07	55.11%				
	8/23/07	01097327	9,305	69,601	128%		8/23/07	01448515	5,026	37,594	126%	8/23/07	54.01%				
Wkend	8/24/07	01107523	10,196	76,266	75,656		8/24/07	01454223	5,708	42,696	41,075	8/24/07	55.98%				
	8/27/07	01146229	38,706	289,521	96,507		8/27/07	01474940	20,717	154,963	51,654	8/27/07	53.52%		134,558	44,853	46.48%
	8/28/07	01155604	9,375	70,125			8/28/07					8/28/07	50.74%				
	8/29/07	01164948	9,344	69,693			8/29/07					8/29/07	51.38%				
	8/30/07	01174803	9,855	73,715	159%		8/30/07	01489252	4,754	35,560	177%	8/30/07	48.24%				
Wkend	8/31/07	01185156	10,353	77,440	72,793		8/31/07	01494512	5,260	39,345	36,600	8/31/07	50.81%				
	9/4/07	01246872	61,716	461,636	115,409		9/4/07			773	64,943	9/4/07	56.27%		201,863	50,466	43.73%
	9/5/07	01254490	7,618	56,983			9/5/07			616		9/5/07	53.73%				
	9/6/07	01261334	6,844	51,193	123%		9/6/07			521	122%	9/6/07	55.71%				
Wkend	9/7/07	01268589	7,255	54,267	54,148		9/7/07			439	29,192	9/7/07	52.41%				
	9/10/07	01295395	26,806	200,509	66,836		9/10/07	01555277	14,328	107,173	35,724	9/10/07	53.45%		93,335	31,112	46.55%
	9/11/07	01300897	5,502	41,155			9/11/07	01557908	2,631	19,680		9/11/07	47.82%				
	9/12/07	01306523	5,626	42,082			9/12/07	01560773	2,865	21,430		9/12/07	50.92%				
	9/13/07	01312549	6,026	45,074	132%		9/13/07	01563627	2,854	21,348	132%	9/13/07	47.36%				
Wkend	9/14/07	01318899	6,350	47,498	43,952		9/14/07	01566960	3,333	24,931	21,847	9/14/07	52.49%				
	9/17/07	01342090	23,191	173,469	57,823		9/17/07	01578569	11,609	86,835	28,945	9/17/07	50.06%		86,633	28,878	49.94%
	9/18/07	01347681	5,591	41,821			9/18/07	01581486	2,917	21,819		9/18/07	52.17%				
	9/19/07	01353900	6,219	46,518			9/19/07	01584664	3,178	23,771		9/19/07	51.10%				
	9/20/07	01359973	6,073	45,426	140%		9/20/07	01587568	2,924	21,872	137%	9/20/07	48.15%				
Wkend	9/21/07	01366399	6,426	48,066	45,458		9/21/07	01590962	3,374	25,238	23,175	9/21/07	52.51%				
	9/24/07	01392003	25,604	191,518	63,839		9/24/07	01603689	12,727	95,198	31,733	9/24/07	49.71%		96,320	32,107	50.29%
	9/26/07	01405843	13,840	103,523			9/26/07	01610984	7,295	54,567		9/26/07	52.71%				
	9/27/07	01412299	6,456	48,291			9/27/07	01614446	3,462	25,896		9/27/07	53.62%				
	9/28/07	01418723	6,424	48,052			9/28/07	01617643	3,197	23,914		9/28/07	49.77%				
	10/1/07	01443628	24,905	186,289	62,096		10/1/07	01630693	13,050	97,614	32,538	10/1/07	52.40%		88,675	29,558	47.60%
	10/2/07	01450332	6,704	50,146			10/2/07	01634133	3,440	25,731		10/2/07	51.31%				
	10/3/07	01457118	6,786	50,759			10/3/07	01637483	3,350	25,058		10/3/07	49.37%				
	10/4/07	01463185	6,067	45,381			10/4/07	01640549	3,066	22,934		10/4/07	50.54%				

Percent Weekend Increase

Average Weekday

Average Day for Weekend

Paradise Shores Master Meter Pit (outgoing to PS & POASI)					All	Suissevale Eden Lane Meter (outgoing to POASI only)					Suisse	Percentage of POASI use Suissevale Gal + PS Master Meter Pit)			Balmoral		
			Total Usage						POASI Usage								
	Date	Reading	Cubic Feet	Gallons	gpd		Date	Reading	Cubic Feet	Gallons	gpd	Date	% of Daily Use	Avg per weekend	Gallons	gpd	
	10/5/07	01470367	7,182	53,721			10/5/07	01644325	3,776	28,244		10/5/07	52.58%				
	10/8/07	01504647	34,280	256,414	85,471		10/8/07		0	0	0	10/8/07	0.00%		256,414	85,471	
	10/9/07	01514348	9,701	72,563			10/9/07		0	0		10/9/07	0.00%				
	10/10/07	01520742	6,394	47,827			10/10/07		0	0		10/10/07	0.00%				
	10/11/07	01532494	11,752	87,905			10/11/07		0	0		10/11/07	0.00%				
	10/15/07	01553416	20,922	156,497	39,124		10/15/07		0	0	0	10/15/07	0.00%		156,497	39,124	
	10/16/07	01559281	5,865	43,870			10/16/07		0	0		10/16/07	0.00%				
	10/17/07	01564445	5,164	38,627			10/17/07		0	0		10/17/07	0.00%				
	10/18/07	01569316	4,871	36,435			10/18/07		0	0		10/18/07	0.00%				
	10/19/07	01573959	4,643	34,730			10/19/07		0	0		10/19/07	0.00%				
	10/22/07	01592403	18,444	137,961	45,987		10/22/07		0	0	0	10/22/07	0.00%		137,961	45,987	
	10/23/07	01593134	731	5,468			10/23/07		0	0		10/23/07	0.00%				
	10/24/07	01601768	8,634	64,582			10/24/07		0	0		10/24/07	0.00%				
	10/25/07	01606042	4,274	31,970			10/25/07		0	0		10/25/07	0.00%				
	10/26/07	01611298	5,256	39,315			10/26/07		0	0		10/26/07	0.00%				
	10/29/07	01629104	17,806	133,189	44,396		10/29/07	01714655	6,064	45,359	15,120	10/29/07	34.06%		87,830	29,277	65.94%
	10/30/07	01634073	4,969	37,168			10/30/07	01716305	1,650	12,342		10/30/07	33.21%				
	10/31/07	01638535	4,462	33,376			10/31/07	01717858	1,553	11,616		10/31/07	34.81%				
	11/1/07	01643288	4,753	35,552			11/1/07	01719476	1,618	12,103		11/1/07	34.04%				
	11/2/07	01648338	5,050	37,774			11/2/07	01719885	409	3,059		11/2/07	8.10%				
	11/5/07	01666769	18,431	137,864	45,955	XXX	11/5/07	01719885	0	0	0	11/5/07	0.00%		137,864	45,955	
	11/6/07	01671545	4,776	35,724			11/6/07	01720371	486	3,635		11/6/07	10.18%				
	11/7/07	01676165	4,620	34,558		XXX	11/7/07	01720771	400	2,992		11/7/07	8.66%				
	11/8/07	01680719	4,554	34,064			11/8/07	01722073	1,302	9,739		11/8/07	28.59%				
	11/9/07	01685185	4,466	33,406			11/9/07	01724230	2,157	16,134		11/9/07	48.30%				
	11/12/07	01704464	19,279	144,207	48,069		11/12/07	01733318	9,088	67,978	22,659	11/12/07	47.14%		76,229	25,410	52.86%
	11/13/07	01709859	5,395	40,355			11/13/07	01735742	2,424	18,132		11/13/07	44.93%				
	11/14/07	01714727	4,868	36,413			11/14/07	01737901	2,159	16,149		11/14/07	44.35%				
	11/19/07	01740576	25,849	193,351	38,670		11/19/07	01749214	11,313	84,621	16,924	11/19/07	43.77%		108,729	21,746	56.23%
	11/20/07	01745332	4,756	35,575			11/20/07	01751370	2,156	16,127		11/20/07	45.33%				
	11/21/07	01750092	4,760	35,605			11/21/07	01753488	2,118	15,843		11/21/07	44.50%				
	11/26/07	01782998	32,906	246,137	49,227		11/26/07	01769188	15,700	117,436	23,487	11/26/07	47.71%		126,701	25,740	52.29%
	11/27/07	01787977	4,979	37,243			11/27/07	01771392	2,204	16,486		11/27/07	44.27%				
	11/28/07	01792854	4,877	36,480			11/28/07	01773517	2,125	15,895		11/28/07	43.57%				
	11/29/07	01796984	4,130	30,892			11/29/07	01775259	1,742	13,030		11/29/07	42.18%				
	11/30/07	01801701	4,717	35,283			11/30/07	01777426	2,167	16,209		11/30/07	45.94%				
	12/3/07	01817353	15,652	117,077	29,269		12/3/07	01784410	6,984	52,240	13,060	12/3/07	44.62%		64,837	16,209	55.38%
	12/4/07	01822348	4,995	37,363			12/4/07	01786664	2,254	16,860		12/4/07	45.13%				
	12/5/07	01826573	4,225	31,603			12/5/07	01788459	1,795	13,427		12/5/07	42.49%				
	12/6/07	01831077	4,504	33,690			12/6/07	01790322	1,863	13,935		12/6/07	41.36%				
	12/7/07	01835220	4,143	30,990			12/7/07	01792144	1,822	13,629		12/7/07	43.98%				
	12/10/07	01851401	16,181	121,034	30,258		12/10/07	01799502	7,358	55,038	13,759	12/10/07	45.47%		65,996	16,499	54.53%
	12/11/07	01856071	4,670	34,932			12/11/07	01801667	2,165	16,194		12/11/07	46.36%				
	12/12/07	01860269	4,198	31,401			12/12/07	01803455	1,788	13,374		12/12/07	42.59%				
	12/13/07	01864557	4,288	32,074			12/13/07	01805384	1,929	14,429		12/13/07	44.99%				
	12/14/07	01869303	4,746	35,500			12/14/07	01807573	2,189	16,374		12/14/07	46.12%				
	12/17/07	01884230	14,927	111,654	27,913		12/17/07	01814140	6,567	49,121	12,280	12/17/07	43.99%		62,533	15,633	56.01%
	12/18/07	01889953	5,723	42,808			12/18/07	01816322	2,182	16,321		12/18/07	38.13%				
	12/19/07	01893813	3,860	28,873			12/19/07	01818547	2,225	16,643		12/19/07	57.64%				
	12/20/07	01898375	4,562	34,124			12/20/07	01820583	2,036	15,229		12/20/07	44.63%				
	12/21/07	01903380	5,005	37,437			12/21/07	01822786	2,203	16,478		12/21/07	44.02%				
	12/27/07	01934061	30,681	229,494	38,249		12/27/07	01837388	14,602	109,223	18,204	12/27/07	47.59%		120,271	20,045	52.41%
	12/28/07	01940325	6,264	46,855			12/28/07	01840501	3,113	23,285		12/28/07	49.70%				
	12/31/07	01965100	24,775	185,317			12/31/07	01853353	12,852	96,133		12/31/07	51.87%				
	1/2/08	01980195	15,095	112,911	56,455		1/2/08	01861174	7,821	58,501	29,251	1/2/08	51.81%		54,410	27,205	48.19%
		Total Avg Daily Use			59,756			POASI Avg Daily Use			30,324	POASI Avg Daily use:				29,432	

Paradise Shores Meter Reads

Billing Cycle Period	Previous Date Cycle was Read	Current Date of Cycle Read	No Days in Reading Cycle	Total No. Customers Billed*	Total PS Billed Usage	Total PS Billed Usage less leaks***	Total POASI Billed Usage	Total Usage Billed* (100 ft3 units)	Total Gallons Sold to PS Only**	Total Gallons Sold to POASI only	Total Gallons Sold*	Total Zero Usage Customers	Total PS Customers Billed for Usage**	Avg. PS Usage per Cust. For Qtr. (100 ft3 units)***	Avg. PS Usage per Cust. For Qtr (gallons)***	Avg. PS Daily Usage Per Cust. For Qtr. (gallons)***
07/01/2007 - 09/30/07	6/25/2007	9/25 - 9/26/07	92	376	3670	3467	5629	9299	2,745,160	4,210,492	6,955,652	56	319	11	8,155	89
10/01/2007 - 12/31/2007	9/25 - 9/26/07	12/27 - 12/28/07	92	376	1618	1727	2229	4047	1,359,864	1,667,292	3,027,156	119	256	5	4,062	44
	Totals for July - December 07		184	752	5,488		7,858	13,346	4,105,024	5,877,784	9,982,808	175	575	16	12,217	133

* Including POASI (approximately 350 customers)

** Not including POASI

***Less a customer with excess usage b/c of irrigation system leak in home

Paradise Shores Water System
Water Use Analysis
"April 2008

All Water Pumped
Paradise Shores Master Meter Pit
(MASTER PUMP STATION METER outgoing to PS & POASI) "100%

			Total Usage		All
	Date	Reading	Cubic Feet	Gallons	gpd
Q3 2007	7/1/07	00481875			
	9/30/07	01443628	961,753	7,193,912	79,054
Q4 2007	10/1/07	01443628			
	12/31/07	01965100	521,472	3,900,611	42,864

Suissevale Water Pumped
Suissevale Eden Lane Meter
ONE MASTER METER 352 UNITS

		POASI Usage		Suisse	Suissevale
Date	Reading	Cubic Feet	Gallons	gpd	% DAILY USE
7/1/07	01095083				
9/30/07	01630693	535,610	4,006,363	44,026	55.69%
10/1/07	01630693				
12/31/07	01853353	222,660	1,665,497	18,302	42.70%

Balmoral Water Pumped
375 UNITS

	Balmoral	Balmoral	Balmoral
Date	Gallons	gpd	% DAILY USE
7/1/07			
9/30/07	3,187,550	35,028	44.31%
10/1/07			
12/31/07	2,235,114	24,562	57.30%

Balmoral (Paradise Shores) Meter Reads

Billing Cycle Period	Current Date of Cycle Read	No Days in Reading Cycle	Total No. Customers Billed*	Total PS Billed Usage	Total Gallons Sold to PS	Total Zero Usage Customers	Number of PS Customers Billed for Usage**	Avg. PS Usage per Cust. For Qtr. (100 ft3 units)***	Avg. PS Usage per Cust. For Qtr (gallons)***	Avg. PS Daily Billed Usage Per Cust. For Qtr. (gallons)***
Q3 2007	9/25 - 9/26/07	92	376	3670	2,745,160	57	319	12	8,606	94
Q4 2007	12/27 - 12/28/07	92	376	1818	1,359,864	118	256	7	5,312	58

Suissevale Metered Water Use

	Master Meter Use Gallons	Gallons per Customer (352)	Metered Suissevale actual GPD (352)
Q3 2007	4,006,363	11,382	124
Q4 2007	1,665,497	4,732	51

Balmoral (Paradise Shores)

Total Individual Gallons Sold to PS Only**	Calculated Balmoral Master Meter	Total PS Customers Billed for Usage**	Individual Metered Gal / customer	Pumped Gallons per Customer	Metered Gal/Cust /Day	Pumped Gal /Cust / Day	Water loss
2,745,160	3,187,550	319	8606	9992	94	109	13.88%
1,359,864	2,235,114	256	5312	8731	58	95	39.16%

Suissevale Metered Water Use
At 13.88% Unaccounted-For Water

	Estimated Metered Gal/Cust/Day	Pumped/ Metered Suissevale actual GPD (352)
Q3 2007	107	124
Q4 2007	44	51

Balmoral (Paradise Shores)
At 13.88% Unaccounted-For Water

	Metered Gal/Cust /Day	Calculated Gal /Cust / Day	Water loss
Q3 2007	94	109	13.88%
Q4 2007	58	67	13.88%