APPENDIX H – Water Use & Water Use Efficiency

MEADOWS WATER SYSTEM ID 87784Q

03.12.2018

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Meadows 87784Q	S1 AKB320 S2 AKB321 S3 AKB322 S4 AKB323 S5 AKB324 S6 AKB325	7 dig CF 7 dig GAL (failed) 7 dig CF 7 dig CF 7 dig CF 7 dig CF 7 dig CF	Water Right	Acre Ft	Gal Per Min				
			G2-26623C	498	1060				
			Show in GAL	162,273,798					
BILLING DATE	MONTHLY (AC) SOLD +BLOW OFF GALLONS	MONTHLY PUMPED GALLONS	MONTHLY DSL %	MONTHLY GAL PER DAY PER CONN	YTD (AC) SOLD + BLOW OFF GALLONS	YTD PUMPED GALLONS	YTD DSL %	YTD % of WATER RIGHT	# OF DAYS
Dec-16	3,196,787	3,366,703	5%	136	53,525,108	67,157,168	20%	41%	363
Nov-16	3,369,845	4,326,342	22%	175	50,328,321	63,790,465	21%	39%	330
Oct-16	3.435.945	4.913.073	30%	199	46,958,476	59.464.123	21%	37%	302
Sep-16	5,001,106	5,983,843	16%	245	43,522,531	54,551,050	20%	34%	273
Aug-16	7,807,871	9,673,428	19%	400	38.521.425	48,567,207	21%	30%	245
Jul-16	5,579,422	7,315,642	24%	303	30,713,554	38,893,779	21%	24%	212
Jun-16	5,664,499	6.546,212	13%	271	25,134,132	31,578,137	20%	19%	182
May-16	5,678,173	6,854,448	17%	283	19,469,633	25,031,925	22%	15%	155
Apr-16	3,224,030	4,467,228	28%	185	13,791,460	18,177,477	24%	11%	121
Mar-16	3,121,015	4,440,203	30%	184	10,567,430	13,710,249	23%	8%	93
Feb-16	3,645,303	5,436,015	33%	225	7,446,415	9,270,046	20%	6%	64
Jan-16	3,801,112	3,834,031	1%	159	3,801,112	3,834,031	1%	2%	32
Dec-15	3,177,115	6,009,799	47%	249	52,833,933	70,125,216	25%	43%	359
Nov-15	3,275,649	4,573,721	28%	190	49,656,818	64,115,417	23%	40%	330
Oct-15	3,745,558	4,525,400	17%	188	46,381,169	59,541,696	22%	37%	301
Sep-15	4,787,537	6,452,270	26%	268	42,635,611	55,016,296	23%	34%	273
Aug-15	5,927,474	6,787,202	13%	281	37,848,074	48,564,026	22%	30%	240
Jul-15	7,199,881	8,442,354	15%	350	31,920,600	41,776,824	24%	26%	212
Jun-15	6,843,751	8,492,343	19%	352	24,720,719	33,334,470	26%	21%	184
May-15	3,694,297	4,984,126	26%	207	17,876,968	24,842,127	28%	15%	151
Apr-15	3,463,120	4,772,928	27%	198	14,182,671	19,858,001	29%	12%	122
Mar-15	3,578,492	4,454,153	20%	185	10,719,551	15,085,073	29%	9%	94
Feb-15	3,508,973	5,166,780	32%	214	7,141,059	10,630,920	33%	7%	64
Jan-15	3,632,086	5,464,140	34%	227	3,632,086	5,464,140	34%	3%	33
Dec-14	3,319,011	4,523,904	27%	188	53,242,034	64,235,696	17%	40%	362
Nov-14	3,313,610	4,559,292	27%	189	49,923,023	59,711,792	16%	37%	333
Oct-14	3,750,801	5,332,305	30%	221	46,609,413	55,152,500	15%	34%	305
Sep-14	5,417,973	6,263,797	14%	260	42,858,612	49,820,195	14%	31%	272
Aug-14	6,350,714	7,487,921	15%	310	37,440,639	43,556,398	14%	27%	242
Jul-14	6,809,635	7,086,081	4%	294	31,089,925	36,068,477	14%	22%	215
Jun-14	4,949,875	6,336,682	22%	263	24,280,290	28,982,396	16%	18%	186
May-14	4,324,667	4,349,627	1%	180	19,330,415	22,645,714	15%	14%	154
Apr-14	3,729,969	4,883,385	24%	202	15,005,748	18,296,087	18%	11%	125
Mar-14	4,046,306	4,002,009	-1%	166	11,275,779	13,412,702	16%	8%	92
Feb-14	3,391,896	4,365,545	22%	181	7,229,473	9,410,693	23%	6%	63
Jan-14	3,837,577	5,045,148	24%	209	3,837,577	5,045,148	24%	3%	33

					CF 7 digit GAL 7 digit (failed) CF 7 digit CF 7 digit CF 6 digit			S1 AKB320 S2 AKB321 S3 AKB322 S4 AKB323 S5 AKB324 S6 AKB325	Meadows 87784Q
		Gal Per Min 1060	Acre Ft 498	Water Right G2-26623C	Connections 804 Metered	WFI Approved 1896	WFI Active 805		Billing 25th
# OF DAYS	YTD % of WATER	YTD DSL %	162,274,794 YTD PUMPED GALLONS	Show in GAL YTD (AC) SOLD + BLOW OFF	MONTHLY GAL PER DAY PER	MONTHLY DSL	MONTHLY PUMPED	MONTHLY (AC) SOLD +BLOW OFF	BILLING DATE
	RIGHT 15% 15%	22% 22%	25,031,925 25.031,925	GALLONS 19,469,633 19,469,633	CONN 0 0	78	GALLONS	GALLONS	Dec-16
	15% 15%	22% 22% 22%	25,031,925 25,031,925 25,031,925	19,469,633 19,469,633 19,469,633	0				Nov-16 Oct-16 Sep-16
	15% 15%	22%	25,031,925 25,031,925	19,469,633	0				Aug-16 Jul-16
158	15% 15%	22% 22%	25,031,925 25,031,925	19,469,633 19,469,633	0 283	17%	6,854,448	5,678,173	Jun-16 May-16
121 93	11% 8%	24% 23%	18,177,477 13,710,249	13,791,460 10,567,430	185 184	28% 30%	4,467,228 4,440,203	3,224,030 3,121,015	Apr-16 Mar-16
64 32	6% 2%	20% 1%	9,270,046 3,834,031	7,446,415 3,801,112	225 159	<u>33%</u> 1%	5,436,015 3,834,031	3,645,303 3,801,112	Feb-16 Jan-16
359 330	43% 40%	25% 23%	70,125,216 64,115,417	52,833,933 49,656,818	249 190	47% 28%	6,009,799 4,573,721	3,177,115 3,275,649	Dec-15 Nov-15
301	37%	22%	59,541,696	46,381,169	188	17%	4,525,400	3,745,558	Oct-15
273 24(34% 30%	23% 22%	55,016,296 48,564,026	42,635,611 37,848,074	268 281	26% 13%	6,452,270 6,787,202	4,787,537 5,927,474	Sep-15 Aug-15
212 184	26% 21%	24% 26%	41,776,824 33,334,470	31,920,600 24,720,719	350 352	15% 19%	8,442,354 8,492,343	7,199,881 6,843,751	Jul-15 Jun-15
151 122	15% 12%	28% 29%	24,842,127 19,858,001	17,876,968 14,182,671	207 198	26% 27%	4,984,126 4,772,928	3,694,297 3,463,120	May-15 Apr-15
94 64	9% 7%	29% 33%	15,085,073 10,630,920	10,719,551 7,141,059	185 214	20% 32%	4,454,153 5,166,780	3,578,492 3,508,973	Mar-15 Feb-15
33 362	3% 40%	34% 17%	5,464,140 64,235,696	3,632,086 53,242,034	227 188	34% 27%	5,464,140 4,523,904	3,632,086 3,319,011	Jan-15 Dec-14
333 305 272	37% 34% 31%	16% 15% 14%	59,711,792 55,152,500 49,820,195	49,923,023 46,609,413 42,858,612	189 221 260	27% 30% 14%	4,559,292 5,332,305 6,263,797	3,313,610 3,750,801 5,417,973	Nov-14 Oct-14 Sep-14
212 242 215	27% 22%	14% 14% 14%	49,820,195 43,556,398 36,068,477	42,858,612 37,440,639 31,089,925	260 310 294	14% 15% 4%	6,263,797 7,487,921 7,086,081	6,350,714 6,809,635	Sep-14 Aug-14 Jul-14
186	18%	16% 15%	28,982,396	24,280,290	263 263 180	22% 1%	6,336,682	4,949,875	Jun-14 May-14
125	11%	18% 18%	18,296,087 13,412,702	15,005,748	202	24% -1%	4,883,385	3,729,969 4,046,306	Apr-14 Mar-14
63 33	6% 3%	23% 24%	9,410,693 5,045,148	7,229,473 3,837,577	181 209	22% 24%	4,365,545	3,391,896 3,837,577	Feb-14 Jan-14
357 329	36% 33%	11% 10%	58,139,290 54,258,860	51,811,497 48,694,985	161 164	20% 4%	3,880,430 3,948,505	3,116,512 3,783,930	Dec-13 Nov-13
303 270	31% 28%	11% 9%	50,310,355 45,680,774	44,911,055 41,391,304	192 201	24% 13%	4,629,581 4,855,911	3,519,751 4,210,283	Oct-13 Sep-13
242 209	25% 20%	9% 7%	40,824,863 32,277,647	37,181,021 30,048,310	354 308	17% 11%	8,547,216 7,431,126	7,132,711 6,582,093	Aug-13 Jul-13
180 151	15% 12%	<u>6%</u> 3%	24,846,521 19,619,534	23,466,217 18,956,331	217 223	14% 9%	5,226,987 5,390,654	4,509,886 4,922,640	Jun-13 May-13
119 91	9% 6%	1% -6%	14,228,880 9,686,530	14,033,691 10,294,357	<u>188</u> 156	18% 15%	4,542,350 3,758,655	3,739,334 3,200,864	Apr-13 Mar-13
61 32	4% 2%	-20% -21%	5,927,875 3,158,223	7,093,493	115 131	-18% -21%	2,769,652	3,260,659 3,832,834	Feb-13 Jan-13
359 329	33% 31%	0% 1%	52,794,776 50,067,431	52,953,606 49,532,269	113 113 123	-25% -13%	2,727,345	3,421,337	Dec-12 Nov-12
302	29% 26%	2%	47,107,107 41,999,587	46,190,025	212		5,107,520	4,987,470 6,209,028	Oct-12 Sep-12
239	22%	3%	36,080,351	34,993,527	285	-3%	6,866,508	7,073,881	Aug-12
209 179	18% 15%	4% 5%	29,213,843 23,791,119	27,919,646 22,645,266	<u>225</u> 177	3% 11%	5,422,724 4,270,289	5,274,380 3,779,420	Jul-12 Jun-12
151 122	12% 9%	3% 6%	19,520,830 15,260,299	18,865,846 14,406,300	<u>177</u> 171	-5% 9%	4,260,531 4,136,475	4,459,546 3,755,199	May-12 Apr-12
90	7% 5%	4%	11,123,824	10,651,101 7,346,639	147 136	7% 3%	3,535,658 3,271,759	3,304,462 3,168,685	Mar-12 Feb-12
34 359	3% 34%	3% -1%	4,316,407	4,177,954	179 173	3% 11%	4,316,407 4,181,612	4,177,954	Jan-12 Dec-11
326	32% 29%	-2% -2%	51,368,754 47,567,438	52,481,498 48,440,682	158 151	-6% -40%	3,801,316 3,640,747	4,040,816	Nov-11 Oct-11
270 237 210	27% 23% 19%	1% 1% 5%	43,926,691 36,668,257	43,342,090 36,187,702	301 249 241	1% -16%	7,258,434 6,016,829	7,154,388 6,985,617	Sep-11 Aug-11
179	19% 15% 13%	5% 7% 10%	30,651,428 24,837,727 20,618,487	29,202,085 23,020,015 18,618,439	175 169	-6% -4% 2%	5,813,701 4,219,240 4,073,265	6,182,070 4,401,576 3,983,624	Jul-11 Jun-11 May-11
118	10%	12% 14%	16,545,222	14,634,815	150 158	2% 8%	3,620,790	3,560,241 3,528,047	Apr-11 Mar-11
59 28	6% 3%	17%	9,106,442	7,546,527	195 195 183	18% 16%	4,702,646	3,851,796 3,694,731	Feb-11 Jan-11
360	37%	13%	60,373,004	52,496,114		-15%	3,440,565	3,957,937	Dec-10
326 298	35% 33%	15% 16%	56,932,439 53,676,769	48,538,177 45,026,100		-33% 0%	3,255,670 3,605,710	3,512,077 3,593,744	Nov-10 Oct-10
268	31% 27%	17% 19%	50,071,059 44,426,499	41,432,356 35,763,496		0% -20%	5,644,560 6,208,120	5,668,860 7,455,922	Sep-10 Aug-10
210	24% 19%	26% 29%	38,218,379 31,282,719	28,307,574 22,161,991 18,001,608		11% 28%	6,935,660 5,789,662 5,075,226	6,145,583 4,160,383	Jul-10 Jun-10
148 120 87	16% 13% 9%	29% 30% 31%	25,493,057 20,417,831 15,243,929	18,001,608 14,276,568 10,469,749		14% 26% 22%	5,075,226 5,173,902 4,386,064	3,725,040 3,806,819 3,414,807	May-10 Apr-10 Mar-10
57	9% 7% 3%	31% 35% 31%	15,243,929 10,857,865 5,215,371	7,054,942		22% 39% 31%	4,386,064 5,642,494 5,215,371	3,414,807 3,458,932 3,596,010	Mar-10 Feb-10 Jan-10
363 330	51% 47%	24% 23%	82,920,980 76,595,772	63,361,840 59,069,838		31% 32% 17%	6,325,208 5,260,822	4,292,002 3,643,628	Dec-09 Nov-09
302	44%	22%	71,334,950 65,740,860	55,426,210 51,306,780		26% 23%	5,594,090	4,119,430	Oct-09 Sep-09
241	36% 30%	22%	58,363,619 48,467,610	45,656,590		16% 7%	9,896,009 9,746,930	8,294,565	Aug-09 Jul-09
183	24% 18%	27% 29%	38,720,680 28,609,491	28,262,343 20,402,793		22% 28%	10,111,189 5,747,111	7,859,550	Jun-09 May-09
122 94	14% 10%	29% 27%	22,862,380 16,633,038	16,272,172 12,199,005		29% 25%	6,229,342 5,159,764	4,073,167 3,886,241	Apr-09 Mar-09
61 32	7% 4%	28% 28%	11,473,274 6,109,546	8,312,764 4,412,602		27% 28%	5,363,728 6,109,546	3,900,162 4,412,602	Feb-09 Jan-09
360 332	50% 47%	25% 25%	81,537,830 76,363,530	61,161,043 57,546,729		30% 30%	5,174,300 5,800,990	3,614,314 4,068,783	Dec-08 Nov-08
302	43% 39%	24% 24%	70,562,540	53,477,946 48,654,767		15% 9%	6,696,700 6,643,020	4,823,179 6,047,258	Oct-08 Sep-08
240	35% 30%	26% 27%	57,222,820 48,111,300	42,607,509 35,125,819		18% 15%	9,111,520 10,878,920	7,481,690	Aug-08 Jul-08
181	23% 19%	31% 34%	37,232,380 31,011,720	25,833,677 20,444,509		13% 18%	6,220,660 5,321,874	5,389,168 4,386,826	Jun-08 May-08
123 92 63	16% 12% 9%	37% 40% 41%	25,689,846 19,906,585 13,933,570	16,057,683 11,995,093 8,227,873		30% 37% 42%	5,783,261 5,973,015 6,630,940	4,062,590 3,767,220 3,828,795	Apr-08 Mar-08 Eeb-08
33	9% 5%	41%	13,933,570 7,302,630	8,227,873 4,399,078		42% 40%	6,630,940 7,302,630	3,828,795 4,399,078	Feb-08 Jan-08

location name	meter_no	location name	meter_no	location name	meter_no	location name	meter_no
SO. OF LOT 70	10316655	PINEDROP &	15823137	IRR ALPINE MEADOWS	386455550	833 MANDEE	1014872 (cubic
IRRIGAT	(cubic feet)	SUMMERFIELD	(cubic feet)	COMM.	(cubic feet)	STREET (Steilacoom Ridge)	feet)
cur_date	cur_read	cur_date	cur_read	cur_date	cur_read	cur_date	cur_read
12/17/2015	176266	12/17/2015	521,471	12/18/2015	5,248,200		
1/19/2016	176266	1/18/2016	521,471	1/20/2016	5,248,200		
2/22/2016	176266	2/19/2016	521,471	2/23/2016	5,248,200		
3/22/2016	176266	3/21/2016	521,471	3/23/2016	5,248,200		
4/19/2016	176266	4/18/2016	521,471	4/20/2016	5,248,200	4/21/2016	0
5/20/2016	176266	5/23/2016	526,065	5/23/2016	5,248,200	5/23/2016	0
6/21/2016	176266	6/23/2016	535,827	6/21/2016	5,248,200	6/22/2016	4,227
7/20/2016	176849	7/20/2016	544,658	7/20/2016	5,248,200	7/22/2016	42,600
8/22/2016	184534	8/22/2016	555,122	8/23/2016	5,248,200	8/24/2016	91,889
9/22/2016	187803	9/21/2016	562,070	9/22/2016	5,248,200	9/23/2016	116,979
10/20/2016	187803	10/19/2016	565,381	10/21/2016	5,248,200	10/19/2016	118,559
11/21/2016	187803	11/18/2016	565,381	11/21/2016	5,248,200	11/22/2016	118,559
12/20/2016	187803	12/21/2016	565381	12/21/2016	5248200	12/21/2016	118,559
Annual Usage	11537		43910		0		118559
ERU (225 gpd)	1.1		4.0		0.0		10.8

2016 Irrigation Meter Readings - Meadows Water System

Total All Meters 15.8



Date Submitted: 6/19/2017

Water Use Efficiency Annual Performance Report - 2016

WS Name:	MEADOWS LLC	Water System	n ID# : 87784	WS County: THU	IRSTON
Report submi	tted by: Erica Schilt				
Meter Install	ation Information:				
Estimate the	percentage of metered connections:	100%			
If not fully me	tered - Current status of meter installation	on:			
Production,	Authorized Consumption, and Distrib	ution System Leakag	e Information:		
	JE Reporting Period: 12/17/2015 r missing data for the year? No n:	To <i>12/21/2016</i>			re (da Lazzando sectorar gardan sec
Distribution	System Leakage Summary:				
Total Water F	Produced and Purchased (TP) – Annual	Volume	67, <i>157,1</i> 68 gall	ons	
Authorized C	onsumption (AC) – Annual Volume		53,525,108 gall	ons	
Distribution S	System Leakage – Annual Volume TP – /	AC	13,632,060 gall	ons	
Distribution S	ystem Leakage – Percent DSL = [(TP –	AC) / TP] x 100	20.3 %		
3-year annua	l average		20.7 %		
Goal-Setting	Information:				
Date of Most	Recent Public Forum: 06/27/2015	Has goal been change	d since last perfor	mance report?	Yes
Note: Custon	ner goal must be re-established every 6	years through a public	process		
WUE Goals:					
Customer Go	oal (Demand Side):				

Reduce the average annual water usage for all accounts by one percent each year through 2027 to a value of 300 gallons per day per connection (gpdpc).

Describe Progress in Reaching Goals:

HRWW implemented community discussions with customers of systems and neighborhoods on Conservation. HRWW had implemented a third tier in June 2008 to promote conservation and now, a new conservation fourth tier in May 2017 which only affects systems who have exceeded or are at or near 95% of their respective water right, as identified by the company.

Since implementation of our Water Use Efficiency Goals in 2009, our company has achieved a reduction in customer demand and is meeting its conservation goals, overall. While we focus on the 49 Group A systems we own and operate, we do also strive to accomplish conservation goals at the 92 Group B systems as well. As we work through the larger systems to the smaller systems we expect to achieve all of our conservation goals. In June and July of 2016 we reevaluated our conservation goals through multiple community planning meetings whose goals were to both educate our customers on our progress and to seek ideas on setting new goals.

In support of reaching our goals, HRWW 1) Makes available DOH informational brochures "Water Conservation Guidelines to being Waterwise" available to all customers; 2) Provides customer access to 36 months of usage history online, in addition to 13 months of usage history on each monthly bill which allows customers to compare their usage to the prior year; 3) Has product pricing which promotes conservation by imposing higher product cost as usage increases; 4) Has conservation tips available on website; 5) Uses new billing system to flag unusually high consumption so that we may contact customers for possible action on potential leaks; and 6.) Is installing cloud based water meters which will allow customers to access consumption tracking by use of its WaterScope program which will improve individual accountability; 7.) Promoting Xeriscape and Naturescape landscaping; installation of cloud based irrigation controllers (such as Rachio brand).

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

HRWW has established a goal for each part of the conservation equation; supply and demand. Our overall supply side goal is not more than 300 gpdpc by 2027. Our demand side goal is to reduce and maintain the distribution system leakage (DSL) to less than 10 percent in ten years.

Our supply side plan goal does take into consideration, for example, the difference in the average size of the lots in a particular water system when setting a goal for the necessary supply for that system. Some systems serve a 60 condominium community with virtually no yards while at other systems lot sizes range between .25 acres to 1.25 acre. Clearly, the supply side goal must accommodate these differences which occur as a result of different planning and zoning. Water budgeting per household is now possible with utility billing software. Budgeting should be based on parcel size and historical weather for our area.

Our water well supplies do not exceed current appropriations. We measure the efficiency of our supply side conservation activity through reductions we can achieve in supply production while adequately meeting customer needs. Additionally, we strive to reduce water loss by finding and fixing leaks in the various distribution systems. The conservation impact is measured by tracking Distribution System Leakage (DSL).

Our demand side conservation goal is being met as described above under "Progress in Reaching Goal" at many systems.

Water usage is influenced by our pricing structure. Leak detection at all systems is ongoing. HRWW has created an extensive database which allows us to compare and contrast production and consumption data for each system. These readings allow us compare "sold" water with "production water" to determine if there is a looming problem.

Customer meter installation on all Group A systems was completed in December of 2016. There are Group B systems which should be completed by mid-2018.



Date Submitted: 6/30/2016

Water Use Efficiency Annual Performance Report - 2015

WS Name:	MEADO	WS LLC	Water System ID# : 87784	WS County: THURSTON
Report submi	itted by:	Erica Schilt		
Meter Install	ation Inf	ormation:		
Estimate the	percenta	ge of metered connections: 100%		
If not fully me	etered - C	urrent status of meter installation:		
Production,	Authoriz	ed Consumption, and Distribution S	ystem Leakage Information:	
12-Month WL	JE Repor	ting Period: 12/19/2014 To 1	2/17/2015	
Incomplete or	r missing	data for the year? No		
lf yes, explair	ו:			
Distribution	System	Leakage Summary:		
Total Water F	Produced	and Purchased (TP) - Annual Volume	70,125,216 gall	ons
Authorized C	onsumpti	on (AC) – Annual Volume	52,833,933 gall	ons
Distribution S	System Le	eakage – Annual Volume TP – AC	<i>17,291,2</i> 83 gall	ons
Distribution S	System Le	eakage – Percent DSL = [(TP – AC) / T	P] x 100 24.7 %	
3-year annua	l average	9	17.6 %	
Goal-Setting	Informa	tion:		
Date of Most	Recent P	Public Forum: 06/27/2015 Has goa	I been changed since last perfor	mance report? No
Note: Custom	ner goal n	nust be re-established every 6 years th	rough a public process	
WUE Goals:				
Customer Go	al (Dema	and Side):		
		ompanywide goal is a 5% reduction in p each system.	eak demand and reducing system	n leakage to less
		and the second	(i) All a financial destructions and the second affects of a second structure of the second s second second s second second s Second second se Second second sec	an e a staat de ale een een een een een een een een een e

Describe Progress in Reaching Goals:

HRWW's companywide goal is a 5% reduction in peak demand and reducing system leakage to less than 10% in each system. Our base year for purposes of measuring reduction in use is 2009. Progress in Reaching Goals

Since implementation of our Water Use Efficiency Goals in 2009, our company has achieved a reduction in demand and is meeting its conservation goals. While we focus on the 48 Group A systems we operate, we do also strive to accomplish conservation goals at the 90 Group B systems as well. As we work through the larger systems to the smaller systems we expect to achieve all of our conservation goals. In June and July of 2015 we reevaluated our conservation goals through several community planning meetings to both educate our customers on our progress and to seek ideas on setting new goals.

In support of reaching our goals, HRWW 1) Makes available DOH informational brochures "Water Conservation Guidelines to being Waterwise" available to all customers; 2) Provides customer access to 24 months of usage history online, in addition to 13 months of usage history on each monthly bill which allows customers to compare their usage to the prior year; 3) Has product pricing which promotes conservation by imposing higher product cost as usage increases; 4) Has conservation tips available on website; and 5) Uses billing system to flag unusually high consumption so that we may contact customers for possible action on potential leaks.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

HRWW has established a goal for each part of the conservation equation; supply and demand. Our supply side plan goal takes into consideration, for example, the difference in the average size of the lots in a particular water system when setting a goal for the necessary supply for that system. Some systems serve a 60 condominium community with virtually no yards while at other systems the lot sizes may range between .25 acres to 1 acre. Clearly, the supply side goal must accommodate these differences which occur as a result of different planning and zoning. Our water well supplies do not exceed current appropriations. We measure the efficiency of our supply side conservation activity through reductions we can achieve in supply production while adequately meeting customer needs. Initially using formulas based on use we can estimate changes in peak demand. Ultimately we plan to track peak use and demand in real time through use of our proprietary MobileWaterCo software and hardware, in the cloud and in the field. Additionally, we strive to reduce water loss by finding and fixing leaks in the various distribution systems. The conservation impact is measured by tracking Distribution System Leakage (DSL). Our goal in this metric is <10% DSL in each system. Our current three year average DSL scores range from 0% to 28.9%. The average DSL rate over all 48 Group A systems is 6%.

Our demand side conservation goal is being met as described above under "Progress in Reaching Goal". Water usage is relative to the economy and is somewhat influenced by our pricing structure. HRWW has created an extensive database which allows us to compare and contrast production and consumption data for each system. In addition, HRWW employs a cloud based reporting system to enter source meter readings to register current readings as well as taking readings at each meter reading cycle. These readings allow us compare "sold" water with "production water" to determine if there is a problem.

Leak detection at all systems is ongoing.



Date Submitted: 6/29/2015

Water Use Efficiency Annual Performance Report - 2014

WS Name:	MEADO	WS LLC	Water System I	D# : 87784	WS County: THURSTON
Report submi	itted by:	Erica Schilt			
Meter Install	ation Inf	ormation:			
Estimate the	percenta	ge of metered connections: 10	00%	a fan de la construction de la signa de la construction de la construction de la construction de la construction	
If not fully me	etered - C	urrent status of meter installation	:		
Production,	Authoriz	ed Consumption, and Distribut	tion System Leakage	Information:	
12-Month WL	JE Repor	ting Period: 12/17/2013	To 12/19/2014		New Contraction of the State of the State of S
Incomplete of	r missing	data for the year? No			
lf yes, explair	า:				
Distribution	System I	_eakage Summary:			
Total Water F	Produced	and Purchased (TP) – Annual Ve	olume	64,235,696 gall	ons
Authorized C	onsumpti	on (AC) – Annual Volume		53,242,034 gall	ons
Distribution S	System Le	akage – Annual Volume TP – A0	c	10,993,662 gall	ons
Distribution S	System Le	akage – Percent DSL = [(TP – A	.C) / TP] x 100	17.1 %	
3-year annua	al average			13.7 %	
Goal-Setting	ı Informa	tion:			
Date of Most	Recent P	ublic Forum: 06/27/2015 Ha	as goal been changed	since last perfor	mance report? No
Note: Custom	ner goal n	nust be re-established every 6 ye	ears through a public pr	ocess	
WUE Goals:					
Customer Go	oal (Dema	nd Side):			
		mpanywide goal is a 5% reductio each system.	on in peak demand and	I reducing syste	m leakage to less

Describe Progress in Reaching Goals:

Since implementation of our Water Use Efficiency Goals in 2009, our company has achieved a reduction in demand and is meeting its conservation goals. While we focus on the 48 Group A systems we operate, we do also strive to accomplish conservation goals at the 90 Group B systems as well. As we work through the larger systems to the smaller systems we expect to achieve all of our conservation goals. In June and July of 2015 we will reassess our conservation goals through several community planning meetings to both educate our customers on our progress and to seek ideas on setting new goals.

In support of reaching our goals, HRWW 1) Makes available DOH informational brochures "Water Conservation Guidelines to being Waterwise" available to all customers; 2) Provides customer access to 24 months of usage history online, in addition to 13 months of usage history on each monthly bill which allows customers to compare their usage to the prior year; 3) Has product pricing which promotes conservation by imposing higher product cost as usage increases; 4) Has conservation tips available on its website; and 5) Uses its billing system to flag unusually high consumption so that we may contact customers for possible action on potential leaks.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

HRWW has established a goal for each part of the conservation equation; supply and demand. Our supply side plan goal takes into consideration, for example, the difference in the average size of the lots in a particular water system when setting a goal for the necessary supply for that system. Some systems serve a 60 condominium community with virtually no yards while at other systems the lot sizes may range between .25 acres to 1 acre. Clearly, the supply side goal must accommodate these differences which occur as a result of different planning and zoning. Our water well supplies do not exceed current appropriations. We measure the efficiency of our supply side conservation activity through reductions we can achieve in supply production while adequately meeting customer needs. Initially using formulas based on use we can estimate changes in peak demand. Ultimately we plan to track peak use and demand in real time through use of our proprietary MobileWaterCo software and hardware, in the cloud and in the field. Additionally, we strive to reduce water loss by finding and fixing leaks in the various distribution systems. The conservation impact is measured by tracking Distribution System Leakage (DSL). Our goal in this metric is <10% DSL in each system. Our current three year average DSL scores range from 0% to 28.9%. The average DSL rate over all 48 Group A systems is 5.31%

Our demand side conservation goal is being met as described above under "Progress in Reaching Goal". Water usage is relative to the economy and is somewhat influenced by our pricing structure. HRWW has created an extensive database which allows us to compare and contrast production and consumption data for each system. In addition, HRWW employs a cloud based reporting system to enter source meter readings to register current readings as well as taking readings at each meter reading cycle. These readings allow us compare "sold" water with "production water" to determine if there is a problem.

HRWW will install approximately 635 meters on existing flat rate customers over two plus years. All systems will be completely metered by early 2017. Capital to be provided by owner. Source meters which under record production are removed for calibration or replacement. Leak detection at all systems is ongoing.



Date Submitted: 6/30/2014

Water Use Efficiency Annual Performance Report - 2013

WS Name:	MEADC	WS LLC	Water System ID	# : 87784	WS County: THU	JRSTON
Report subm	itted by:	Erica Schilt				
Meter Instal	lation Inf	ormation:				
Estimate the	percenta	ge of metered connections:	100%			
If not fully m	etered - C	urrent status of meter installation	on:			
Production,	Authoriz	ed Consumption, and Distrib	ution System Leakage In	formation:		
12-Month W	•	ting Period: 12/20/1912 data for the year? No	To 12/17/2013	an na manana katang		na o construit e construction de la servicio de la
lf yes, explai	-					
Distribution	System	Leakage Summary:				
Total Water	Produced	and Purchased (TP) – Annual	Volume 5	<i>8,139,290</i> gall	ons	
Authorized C	Consumpt	ion (AC) – Annual Volume	5	1,811,497 gall	ons	
Distribution	System Le	eakage – Annual Volume TP – /	٩C	6,327,793 gall	ons	
Distribution	System Le	eakage – Percent DSL = [(TP –	AC) / TP] x 100	10.9 %		
3-year annu	al average	e		%		
Goal-Setting	g Informa	ition:				
Date of Most	Recent F	Public Forum: 12/09/2008	Has goal been changed si	nce last perfor	mance report?	No
Note: Custor	ner goal i	nust be re-established every 6	years through a public pro	cess		
WUE Goals	: 					
Customer G	oal (Dem	and Side):				
		ompanywide goal is a 5% reduc treach system.	tion in peak demand and r	educing syste	m leakage to less	3

Describe Progress in Reaching Goals:

In support of reaching our goals, HRWW 1) Makes available DOH informational brochures "Water Conservation Guidelines to being Waterwise" available to all customers; 2) Provides customer access to 24 months of usage history online, in addition to 13 months of usage history on each monthly bill which allows customers to compare their usage to the prior year; 3) Has pricing which promotes conservation by imposing higher product cost as usage increases; 4) Has conservation tips available on its website; and 5) Uses its billing system to flag unusually high consumption so that we may contact customers for possible action.

Since implementation of our WUE Goals in 2009, for the period 2010 through 2013 our metered customers have achieved an overall reduction measured at metered systems only, of 7.11%, exceeding our goal of 5%. While we focus on the 43 Group A systems we operate, we do also strive to accomplish consumer conservation goals at the 92 Group B systems as well. As we work our way through the factors which impact water use efficiency and consumer use reduction at the larger systems to the smaller systems we expect to continue meeting our conservation goals. In 2014 we will reassess our conservation goals through community planning meetings to both educate our customers on our mutual progress toward efficiency, update plans and adjust goals.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

HRWW has established a goal for each part of the conservation equation; supply and demand. Our supply side plan goal takes into consideration the difference in the average size of the lots in a particular water system when setting a goal for the necessary supply for that system. Clearly, the supply side goal must accommodate the differences which occur as a result of different planning and zoning decisions of the past. Our water well supplies must not exceed current appropriations. We measure the efficiency of our supply side conservation activity through reductions we can achieve in supply production while meeting customer needs. Initially using formulas based on use we can estimate changes in peak demand. Ultimately we will be tracking peak use and demand in real time. Additionally, we strive to reduce water loss by fixing leaks in the various distribution systems. This conservation impact is measured by tracking Distribution System Leakage (DSL). Our goal in this metric is <10% DSL in each system. We have put in place action plans to insure all residential services are metered at all systems not completely metered by 2017. These plans call for continued calibration or replacement of source meters

Our demand side conservation goal is being met as described above under "Customer (Demand Side) Goal Progress". Customer water usage is impacted by the economy and our pricing structure.

HRWW has created and maintains an extensive database which allows us to compare and contrast production and consumption data. In addition, HRWW employs a cloud based data reporting system to field enter source meter readings at service visits in addition to taking readings at each customer meter reading cycle. These readings allow us compare the authorized consumption with total water produced to determine more immediately if there is unaccounted for loss/use.



Date Submitted: 1/18/2013

Water Use Efficiency Annual Performance Report - 2012

WS Name:	MEADOWS LLC		Water System ID# : 87784	WS County: THURSTON
Report subm	itted by: Vicki Thompson			
Meter Instal	ation Information:			
Estimate the	percentage of metered cor	nections: 100%		
If not fully me	etered - Current status of m	eter installation:		
Production,	Authorized Consumption	, and Distribution S	stem Leakage Information:	
12-Month Wl	JE Reporting Period:	12/21/2011 To 1	2/20/2012	na an a
Incomplete o	r missing data for the year	> No		
lf yes, explai	1:			
Distribution	System Leakage Summa	ry:		
Total Water I	Produced and Purchased (ГР) – Annual Volume	52, 794, 776 g	allons
Authorized C	onsumption (AC) – Annual	Volume	52,953,606 g	allons
Distribution S	System Leakage – Annual V	/olume TP – AC	-158,830 g	allons
Distribution S	System Leakage – Percent	DSL = [(TP – AC) / TI	P] x 100 -0.3 %	
3-year annua	ll average		%	
Goal-Setting	Information:			
Date of Most	Recent Public Forum: 1	2/09/2008 Has goa	I been changed since last perf	ormance report? No
Note: Custon	ner goal must be re-establi	shed every 6 years th	rough a public process	
WUE Goals:				
Customer Go	oal (Demand Side):			
	RWW's companywide goal an 10% in each system.	is a 5% reduction in p	eak demand and reducing sys	tem leakage to less
Describe Pro	ogress in Reaching Goals	:		

Since implementation of our Water Use Efficiency Goals in 2009, our company has achieved its goal each year and continues to meet the current goals. While we focus on the 41 Group A systems we operate, we do also strive to accomplish conservation goals at the 90 Group B systems as well. As we work through the larger systems to the smaller systems we expect to continue meeting our conservation goals. In 2014 – 2015 we will reassess our conservation goals through community planning meetings to both educate our customers on our progress and set new goals. In support of reaching our goals, HRWW 1.) makes available DOH informational brochures on Water Conservation Guidelines to be WaterWise, 2.) provides customers with usage history on each monthly bill which allows customers to compare their usage to the prior year; 3.) has pricing which promotes conservation by imposing higher product cost as usage increases; 4.) has Conservation Tips available on its website; and 5.) uses its billing system to flag unusually high consumption so that we may contact customers for possible action.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

HRWW has established a goal for each part of the conservation equation; supply and demand. Our supply side plan goal takes into consideration, for example, the difference in the average size of the lots in a particular water system when setting a goal for the necessary supply for that system. Some systems serve a 60 condominium community with virtually no yards while at other systems the lot sizes may range between .25 acres to 1 acre. Clearly, the supply side goal must accommodate these differences which occur as a result of different planning and zoning. Our water well supplies must not exceed current appropriations. We measure the efficiency of our supply side conservation activity through reductions we can achieve in supply production while meeting customer needs. Initially using formulas based on use we can estimate changes in peak demand. Ultimately we will be tracking peak use and demand in real time. Additionally, we strive to reduce water loss by fixing leaks in the various distribution systems. The conservation impact is measured by tracking Distribution System Leakage (DSL). Our goal in this metric is <10% DSL in each system. Our demand side conservation goal is being met as described above under "Progress in Reaching Goal". Water usage is relatively easy to control especially in light of the economy and our pricing structure.

HRWW has created an extensive database which allows us to compare and contrast production and consumption data. In addition, HRWW employs a cloud based reporting system to enter source meter readings to register current readings as well as taking readings at each meter reading cycle. These readings allow us compare "sold" water with "production water" to determine if there is a problem.

APPENDIX I – Water Right Assessment and Water Right Certificate and Permits