



Advanced Environmental Landscape
Design & Consulting, LLC

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WATER MANAGEMENT **WATER ANALYSIS & RECOMMENDATIONS**

Property Name: Gardens at Sierra
Report Dated: 11/29/2017

HIGH PRIORITY RECOMMENDATIONS

High Priority Recommendations & Preventative Maintenance

WEBSITE LOGIN INFORMATION

Visit www.aelandscapedesign.com/nationalcore
Enter Password- watercore

1. Great Job, you have taken care of all your recommendations. There are no recommendations at this time, thank you!

WATER USAGE ANALYSIS SUMMARY

(See individual meter reports for more detailed information)

DOMESTIC

Meter # 2-2/A: Daily Average, Projected Monthly Average, and current water bill are each below budget.

Landscape System:

Irrigation Map: Map has been uploaded to site.

Weather Based Irrigation Controller: Hunter I-Core W/Solar Sync – installed 11/09/11

Precision Nozzles: Nozzles installed 08/22/14

Turf Removal: Removal is not recommended at this time due to minimal usage.

Fontana Water Company Watering Days and Restrictions are as follows: Please check our website for your district's current restrictions.

Controller in Compliance: Controller is not currently, please see notes below in landscape usage.

Landscape Usage:

Meter# 1: Daily Average, Projected Monthly Average, and current water bill are each below budget.

Pressure Testing:

Building pressure tested at main inlet. Overall pressure registers at 75 PSI.

“Save Water Today, So We Have Water Tomorrow”

Meter Summary Coversheet

Property Name Gardens at Sierra

Meter ID	Account Number	Meter Number(s)	Meter Type
1	3-5-165-5600-0-2	71131125	Landscape
2	3-5-913-1420-0-4	60863963 60863961	Domestic
3	3-5-903-1420-5-4	11160420	Fire Service
4	3-5-903-1421-5-4	11160399	Fire Service

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

Property Name	Gardens at Sierra		
Meter Number	71131125	Meter Type	Landscape
Account Number	3-5-165-5600-0-2	Meter Type	2"
Backflow Details:	Designated Backflow <input checked="" type="checkbox"/>	Size	2" Pressure Regulator? <input checked="" type="checkbox"/>

REPORT DATED
11/29/2017

LANDSCAPE ANALYSIS

The following calculations are based on the data collected from the physical meter readings and water bills:

	MAWA Analysis
Current ETo (Monthly)	7.21
Monthly Budget	253.93

Allocated S/F (Landscape)	60,700
WBIC (Weather Based Irrigation Controller)	<input checked="" type="checkbox"/>
WBIC-MAKE/MODEL	Hunter I-Core W/Solar Sync
PRECISION NOZZLES	<input checked="" type="checkbox"/>
DROUGHT TOLERANT LANDSCAPE	<input type="checkbox"/>

Projected vs. Actual Water Bill Analysis

		Projected		Most Recent	
Tier 1 @	\$3.97	114	\$452.58	114	\$452.58
Tier 2 @					
Tier 3 @					
Tier 4 @					
Tier 5 @					
WATER CONSUMPTION TOTALS		114	\$452.58	114	\$452.58
Service Charge			\$134.80		\$134.83
PUC Surcharge @ .014/CCF					\$8.42
TOTAL USAGE & CHARGES			\$587.38		\$595.83

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
11/13/2017 10:00 AM	2,086,600.0	WB	114.00	85,272.00	31	3.677	744	0.153
10/13/2017 10:00 AM	2,075,200.0	WB	34.70	25,955.60	4	8.675	91	0.381
10/9/2017 3:44 PM	2,071,730.0	RST	169.30	126,636.40	26	6.512	629	0.269
9/13/2017 10:00 AM	2,054,800.0	WB	114.90	85,945.20	12	9.575	289	0.398
9/1/2017 9:29 AM	2,043,310.0	RST	212.10	158,650.80	21	10.100	503	0.422
8/11/2017 10:00 AM	2,022,100.0	WB	67.00	50,116.00	11	6.091	264	0.254
7/31/2017 10:10 AM	2,015,400.0	RST	170.00	127,160.00	17	10.000	408	0.417
7/14/2017 10:00 AM	1,998,400.0	WB	81.90	61,261.20	8	10.238	193	0.424
7/6/2017 9:00 AM	1,990,210.0	RST	270.10	202,034.80	23	11.743	551	0.490
6/13/2017 10:00 AM	1,963,200.0	WB	183.30	137,108.40	14	13.093	331	0.554
5/30/2017 3:30 PM	1,944,870.0	RST	131.70	98,511.60	19	6.932	461	0.286

This report was prepared by Advanced Environmental Landscape. If you have any questions regarding this report please contact us at (909) 980-8300 or water@a landscapedesign.com

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

5/11/2017	10:00 AM	1,931,700.0	WB	42.60	31,864.80	10	4.260	242	0.176
5/1/2017	8:00 AM	1,927,440.0	RST	257.20	192,385.60	34	7.565	808	0.318
3/28/2017	4:00 PM	1,901,720.0	RST	62.20	46,525.60	15	4.147	366	0.170
3/13/2017	10:00 AM	1,895,500.0	WB	65.00	48,620.00	32	2.031	768	0.085
2/9/2017	10:00 AM	1,889,000.0	WB	57.70	43,159.60	10	5.770	240	0.240
1/30/2017	10:00 AM	1,883,230.3	RST	8.30	6,208.40	20	0.415	480	0.017
1/10/2017	10:00 AM	1,882,400.0	WB	30.60	22,888.80	11	2.782	266	0.115
12/30/2016	8:20 AM	1,879,340.5	RST	107.41	80,342.68	21	5.115	502	0.214
12/9/2016	10:00 AM	1,868,600.0	WB	26.89	20,113.72	8	3.361	194	0.139
12/1/2016	8:11 AM	1,865,910.6	RST	59.01	44,139.48	16	3.688	383	0.154
11/15/2016	9:20 AM	1,860,010.1	RST	0.10	74.80	5	0.020	119	0.001
11/10/2016	10:00 AM	1,860,000.0	WB	43.69	32,680.12	9	4.854	215	0.203
11/1/2016	11:56 AM	1,855,630.9	RST	80.61	60,296.28	11	7.328	264	0.305
10/21/2016	11:43 AM	1,847,570.0	RST	36.70	27,451.60	7	5.243	169	0.217
10/14/2016	10:00 AM	1,843,900.0	WB	68.19	51,006.12	11	6.199	266	0.256
10/3/2016	8:06 AM	1,837,080.6	RST	170.81	127,765.88	19	8.990	454	0.376
9/14/2016	10:00 AM	1,820,000.0	WB	72.19	53,998.12	13	5.553	314	0.230
9/1/2016	8:40 AM	1,812,780.6	RST	135.81	101,585.88	20	6.791	478	0.284
8/12/2016	10:00 AM	1,799,200.0	WB	170.30	127,384.40	11	15.482	266	0.640
8/1/2016	8:24 AM	1,782,170.0	RST	245.70	183,783.60	18	13.650	430	0.571
7/14/2016	10:00 AM	1,757,600.0	WB	87.70	65,599.60	6	14.617	146	0.601
7/8/2016	8:01 AM	1,748,830.4	RST	338.30	253,048.40	25	13.532	598	0.566
6/13/2016	10:00 AM	1,715,000.0	WB	116.50	87,142.00	12	9.708	290	0.402
6/1/2016	8:27 AM	1,703,350.3	RST	71.50	53,482.00	20	3.575	478	0.150
5/12/2016	10:00 AM	1,696,200.0	WB	37.60	28,124.80	10	3.760	242	0.155
5/2/2016	8:54 AM	1,692,440.2	RST	103.40	77,343.20	19	5.442	454	0.228
4/13/2016	10:00 AM	1,682,100.0	WB	69.00	51,612.00	12	5.750	289	0.239
4/1/2016	9:43 AM	1,675,200.0	RST	134.00	100,232.00	21	6.381	503	0.266
3/11/2016	10:00 AM	1,661,800.0	WB	102.00	76,296.00	30	3.400	720	0.142
2/10/2016	10:00 AM	1,651,600.0	RST	7.79	5,826.92	6	1.298	145	0.054
2/4/2016	9:10 AM	1,650,820.9	RST	-91.79	-68,658.92	23	-3.991	551	-0.167
1/12/2016	10:00 AM	1,660,000.0	WB	91.79	68,658.92	8	11.474	192	0.478
1/4/2016	10:55 AM	1,650,820.9	RST	7.21	5,393.08	24	0.300	576	0.013
12/11/2015	10:00 AM	1,650,100.0	WB	91.00	68,068.00	29	3.138	696	0.131
12/11/2015	10:00 AM	1,650,100.0	WB	91.00	68,068.00	29	3.138	696	0.131
12/11/2015	10:00 AM	1,650,100.0	WB	91.00	68,068.00	29	3.138	696	0.131
12/11/2015	10:00 AM	1,650,100.0	WB	91.00	68,068.00	29	3.138	696	0.131
11/12/2015	10:00 AM	1,641,000.0	WB	74.00	55,352.00	29	2.552	696	0.106
10/14/2015	10:00 AM	1,633,600.0	WB	139.00	103,972.00	30	4.633	720	0.193
9/14/2015	10:00 AM	1,619,700.0	WB	197.00	147,356.00	32	6.156	768	0.257
8/13/2015	10:00 AM	1,600,000.0	WB	107.80	80,634.40	15	7.187	361	0.299
7/29/2015	9:30 AM	1,589,220.0	WMT	45.80	34,258.40	7	6.543	166	0.276
7/22/2015	11:30 AM	1,584,640.0	WMT	0.00	0.00	1	0.000	24	0.000
7/21/2015	11:30 AM	1,584,640.0	WMT	0.00	0.00	N/A	N/A	N/A	N/A

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

Property Name	Gardens at Sierra		
Meter Number	60863963	Meter Type	Domestic
Account Number	3-5-913-1420-0-4	Meter Type	2"

REPORT DATED
11/29/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Multi-Unit Building (1 BDR)	Multi-Unit Building (2 BDR)	Laundry	Pool & Spa	TOTALS
Description			M#MAH21PR/MAT12PD	POOL/SPA/FOUNTAIN	
Units Served	75	18	15	1260	1,368
Budget/Month/Unit	9	14	22.6	0.0249	
Daily Budget Total	22.19	8.28	11.15	1.03	42.7
Monthly Budget Total	675.00	252.00	339.00	31.37	1,297.4

The following calculations are based on the data collected from the physical meter readings and water bills:

Multiple Meters on Water Account:

Projected vs. Actual Water Bill Analysis

Meter Number	Size	Tier 1 @	\$3.97	Projected	Most Recent		
Meter A 60863963	2"	Tier 2 @		265	\$1,052.05	277	\$1,099.69
Meter B 60863961	2"	Tier 3 @					
Meter C		Tier 4 @					
		Tier 5 @					
Daily Avg. Meter A	4.539	WATER CONSUMPTION TOTALS		265	\$1,052.05	277	\$1,099.69
Daily Avg. Meter B	4.178	Service Charge			\$219.00		\$269.00
Daily Avg. Meter C		PUC Surcharge @ .14/ccf			\$18.68		\$19.64
Daily Avg Meter Total	8.717	ADJUSTMENT BY WMT					\$0.06
Monthly Avg Meter Total	265.142	TOTAL USAGE & CHARGES			\$1,289.73		\$1,388.39

PHYSICAL METER READINGS

METER A:

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
10/27/2017 10:00 AM	681,000.0	WB	81.70	61,111.60	18	4.539	427	0.191
10/9/2017 3:50 PM	672,830.0	RST	61.30	45,852.40	12	5.108	293	0.209
9/27/2017 10:00 AM	666,700.0	WB	182.00	136,136.00	33	5.515	792	0.230
8/25/2017 10:00 AM	648,500.0	WB	63.60	47,572.80	25	2.544	600	0.106
7/31/2017 10:12 AM	642,140.0	RST	456.40	341,387.20	34	13.424	816	0.559
6/27/2017 10:00 AM	596,500.0	WB	111.70	83,551.60	28	3.989	667	0.167
5/30/2017 3:35 PM	585,330.0	RST	46.30	34,632.40	5	9.260	125	0.370
5/25/2017 10:00 AM	580,700.0	WB	104.50	78,166.00	24	4.354	578	0.181
5/1/2017 8:00 AM	570,250.0	RST	144.60	108,160.80	34	4.253	808	0.179
3/28/2017 4:10 PM	555,790.0	RST	134.90	100,905.20	32	4.216	774	0.174

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

METER B:

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
10/27/2017 10:00 AM	653,300.0	WB	75.20	56,249.60	18	4.178	427	0.176
10/9/2017 3:48 PM	645,780.0	RST	58.80	43,982.40	12	4.900	293	0.201
9/27/2017 10:00 AM	639,900.0	WB	169.00	126,412.00	33	5.121	792	0.213
8/25/2017 10:00 AM	623,000.0	WB	34.00	25,432.00	59	0.576	1416	0.024
6/27/2017 10:00 AM	619,600.0	WB	141.20	105,617.60	28	5.043	667	0.212
5/30/2017 3:35 PM	605,480.0	RST	27.80	20,794.40	5	5.560	125	0.222
5/25/2017 10:00 AM	602,700.0	WB	111.50	83,402.00	24	4.646	578	0.193
5/1/2017 8:00 AM	591,550.0	RST	150.90	112,873.20	34	4.438	808	0.187
3/28/2017 4:05 PM	576,460.0	RST	140.60	105,168.80	32	4.394	774	0.182
2/24/2017 10:00 AM	562,400.0	WB	111.19	83,170.12	25	4.448	600	0.185
1/30/2017 10:00 AM	551,280.9	RST	21.81	16,313.88	5	4.362	120	0.182
1/25/2017 10:00 AM	549,100.0	WB	107.09	80,103.32	26	4.119	626	0.171
12/30/2016 8:14 AM	538,390.8	RST	11.91	8,908.68	3	3.970	70	0.170
12/27/2016 10:00 AM	537,200.0	WB	110.59	82,721.32	26	4.253	626	0.177
12/1/2016 8:35 AM	526,140.9	RST	11.41	8,534.68	2	5.705	46	0.248
11/29/2016 10:00 AM	525,000.0	WB	54.70	40,915.60	14	3.907	337	0.162
11/15/2016 9:26 AM	519,530.0	RST	59.49	44,498.52	14	4.249	333	0.179
11/1/2016 12:03 PM	513,580.6	RST	20.81	15,565.88	4	5.203	98	0.212
10/28/2016 10:00 AM	511,500.0	WB	23.00	17,204.00	7	3.286	167	0.138
10/21/2016 11:43 AM	509,200.0	RST	73.30	54,828.40	18	4.072	435	0.169
10/3/2016 8:15 AM	501,870.5	RST	26.71	19,979.08	5	5.342	118	0.226
9/28/2016 10:00 AM	499,200.0	WB	105.70	79,063.60	27	3.915	650	0.163
9/1/2016 8:34 AM	488,630.2	RST	28.30	21,168.40	6	4.717	142	0.199
8/26/2016 10:00 AM	485,800.0	WB	104.90	78,465.20	25	4.196	602	0.174
8/1/2016 8:17 AM	475,310.1	RST	22.10	16,530.80	4	5.525	94	0.235
7/28/2016 10:00 AM	473,100.0	WB	81.99	61,328.52	20	4.100	482	0.170
7/8/2016 8:12 AM	464,900.8	RST	46.01	34,415.48	11	4.183	262	0.176
6/27/2016 10:00 AM	460,300.0	WB	115.20	86,169.60	26	4.431	626	0.184
6/1/2016 8:37 AM	448,780.1	RST	31.80	23,786.40	5	6.360	118	0.269
5/27/2016 10:00 AM	445,600.0	WB	67.39	50,407.72	25	2.696	601	0.112
5/2/2016 9:21 AM	438,860.7	RST	11.61	8,684.28	5	2.322	119	0.098
4/27/2016 10:00 AM	437,700.0	WB	149.10	111,526.80	23	6.483	553	0.270
4/4/2016 9:55 AM	422,790.5	RST	34.91	26,112.68	10	3.491	239	0.146
3/25/2016 10:00 AM	419,300.0	WB	117.00	87,516.00	29	4.034	696	0.168
2/25/2016 10:00 AM	407,600.0	WB	85.59	64,021.32	21	4.076	505	0.169
2/4/2016 9:15 AM	399,040.9	RST	35.41	26,486.68	8	4.426	191	0.185
1/27/2016 10:00 AM	395,500.0	WB	94.20	70,461.60	23	4.096	551	0.171
1/4/2016 11:00 AM	386,080.1	RST	29.80	22,290.40	6	4.967	145	0.206
12/29/2015 10:00 AM	383,100.0	WB	132.00	98,736.00	34	3.882	816	0.162

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 3

Property Name	Gardens at Sierra		
Meter Number	11160420	Meter Type	Fire Service
Account Number	3-5-903-1420-5-4	Meter Type	

REPORT DATED
11/29/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Fire Service				
Description	Fire Service				TOTALS
Units Serviced					0
Budget/Month/Unit					
Daily Budget Total					0.0
Monthly Budget Total					0.0

The following calculations are based on the data collected from the physical meter readings and water bills:

		Projected vs. Actual Water Bill Analysis			
		Projected		Most Recent	
Physical Daily-Average	0.000	Tier 1 @			
Physical Monthly-Average	0.00	Tier 2 @			
		Tier 3 @			
		Tier 4 @			
		Tier 5 @			
		WATER CONSUMPTION TOTALS	0	\$0.00	0 \$0.00
		Private Fire Service		\$91.28	\$90.32
		PUC Surcharge		\$1.31	\$1.30
		TOTAL USAGE & CHARGES		\$92.59	\$91.62

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
11/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
10/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
9/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
6/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
3/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
2/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
12/1/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 4

Property Name	Gardens at Sierra		
Meter Number	11160399	Meter Type	Fire Service
Account Number	3-5-903-1421-5-4	Meter Type	

REPORT DATED
11/29/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Fire Service				
Description	Fire Service				TOTALS
Units Serviced					0
Budget/Month/Unit					
Daily Budget Total					0.0
Monthly Budget Total					0.0

The following calculations are based on the data collected from the physical meter readings and water bills:

		Projected vs. Actual Water Bill Analysis			
		Projected		Most Recent	
Physical Daily-Average	0.000				
Physical Monthly-Average	0.00				
		Tier 1 @			
		Tier 2 @			
		Tier 3 @			
		Tier 4 @			
		Tier 5 @			
		WATER CONSUMPTION TOTALS	0	\$0.00	0 \$0.00
		Private Fire Service		\$90.32	\$90.32
		PUC Surcharge			\$1.30
		TOTAL USAGE & CHARGES		\$90.32	\$91.62

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
11/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
10/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
9/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
6/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
3/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
2/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
12/1/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

This report was prepared by Advanced Environmental Landscape Design & Consulting, LLC. If you have any questions regarding this report, please contact us at (909) 980-8300 or water@aelandscaped.com