



Advanced Environmental Landscape
Design & Consulting, LLC

CSLB C-27 Lic#708716
PO Box 8296, Alta Loma, CA 91737
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WATER MANAGEMENT **WATER ANALYSIS & RECOMMENDATIONS**

Property Name: Heritage Pointe
Report Dated: 11/13/2017

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)

This property is billed on a bi – monthly basis.

DOMESTIC

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

LANDSCAPE

Landscape System:

Irrigation Map: Available online.

Weather Based Irrigation Controllers: Hunter I-Cores W/Solar Sync, installed 02/10/2015.

Precision Nozzles: Installed 02/10/2015.

Turf Removal: This property has a very low square footage of landscape 12,500. If you are interested in possible turf removal, please request a proposal from us.

Current water restrictions are: Please check website for your district's current restrictions.

Controller in Compliance: Controller is not currently; please see notes below in Landscape description.

Landscape Usage:

Meter# 2: Daily Average and Projected Monthly Average are both below budget. **Current water bill is above budget.**

“Save Water Today, So We Have Water Tomorrow”



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11/13/17: Property was suffering from an Irrigation leak which has since been repaired, with additional leaks and repairs that are currently in progress. Water bill reflects this. We will continue to monitor and will update after next billing cycle.

Pressure Testing:

Building: (Tested at Laundry room) Overall building pressure: **50 PSI**, pressure is average.

“Save Water Today, So We Have Water Tomorrow”

Meter Summary Coversheet

Property Name **Heritage Pointe**

Meter ID	Account Number	Meter Number	Meter Type
1	172741-88300	17388353	Domestic
2	172741-88302	18047979	Landscape
3	172741-88304	17274188304	Fire Service

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 1

Property Name	Heritage Pointe		
Meter Number	17388353	Meter Type	Domestic
Account Number	172741-88300	Meter Type	1.5"

REPORT DATED
11/3/2017

Backflow Details: Designated Backflow Size 1.5" 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	Laundry	Water Feature		
Description	(1 BDR)	Washing Machines	FOUNTAIN		TOTALS
Units Serviced	49	5	40		94
Budget/Month/Unit	9	13	0.0249		
Daily Budget Total	14.50	2.14	0.03		16.7
Monthly Budget Total	441.00	65.00	1.00		507.0
				Bi-Monthly Budget Total	1,014.0

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

Physical Daily-Average	4.964	Projected vs. Actual Water Bill Analysis					
		Projected			Most Recent		
		Tier 1 @	\$1.61	33	\$53.13	33	\$53.13
Physical Monthly-Average	150.99	Tier 2 @	\$2.14	100	\$214.00	100	\$214.00
		Tier 3 @	\$2.68	169	\$452.92	101	\$270.68
Physical Bi-Monthly-Average	301.98	Tier 4 @					
		Tier 5 @					
		WATER CONSUMPTION TOTALS		302	\$720.05	234	\$537.81
		SEWER COLLECT FEE			\$561.54		\$561.54
		SEWER TREATMENT FEE			\$1,739.93		\$1,802.22
		WATER SERVICE CHARGE			\$128.80		\$139.16
		MWD SURCHARGE			\$28.90		\$23.40
		TOTAL USAGE & CHARGES			\$3,179.22		\$3,064.13

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)
10/30/2017 10:00 AM	2,057,080.0	RST	124.09	92,819.32	25	4.964	599	0.207
10/5/2017 11:36 AM	2,044,670.7	WMT	34.71	25,963.08	9	3.857	217	0.160
9/26/2017 10:10 AM	2,041,200.0	WB	44.00	32,912.00	12	3.667	284	0.155
9/14/2017 2:00 PM	2,036,800.0	WMT	53.40	39,943.20	15	3.560	365	0.146
8/30/2017 9:15 AM	2,031,460.0	RST	129.30	96,716.40	29	4.459	695	0.186
8/1/2017 10:45 AM	2,018,530.3	RST	7.30	5,460.40	2	3.650	48	0.152
7/30/2017 10:00 AM	2,017,800.0	WB	43.70	32,687.60	10	4.370	240	0.182
7/20/2017 10:40 AM	2,013,430.5	WMT	66.51	49,749.48	15	4.434	357	0.186
7/5/2017 1:10 PM	2,006,780.0	RST	164.80	123,270.40	34	4.847	819	0.201
6/1/2017 10:00 AM	1,990,300.0	WB	131.00	97,988.00	31	4.226	745	0.176

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

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 1

5/1/2017	9:20 AM	1,977,200.0	RST	107.00	80,036.00	27	3.963	647	0.165
4/4/2017	10:00 AM	1,966,500.0	WB	15.90	11,893.20	4	3.975	96	0.166
3/31/2017	10:00 AM	1,964,910.0	RST	119.05	89,049.40	30	3.968	722	0.165
3/1/2017	8:00 AM	1,953,005.0	RST	86.05	64,365.40	24	3.585	574	0.150
2/5/2017	10:00 AM	1,944,400.0	WB	16.90	12,641.20	4	4.225	98	0.172
2/1/2017	8:45 AM	1,942,710.0	RST	134.09	100,299.32	33	4.063	790	0.170
12/30/2016	10:00 AM	1,929,300.9	RST	86.01	64,335.48	23	3.740	552	0.156
12/7/2016	10:00 AM	1,920,700.0	WB	23.40	17,503.20	6	3.900	140	0.167
12/1/2016	2:05 PM	1,918,360.0	RST	113.90	85,197.20	30	3.797	719	0.158
11/1/2016	3:30 PM	1,906,970.0	RST	30.80	23,038.40	8	3.850	198	0.156
10/24/2016	9:00 AM	1,903,890.5	WMT	57.91	43,316.68	15	3.861	359	0.161
10/9/2016	10:00 AM	1,898,100.0	WB	19.70	14,735.60	5	3.940	121	0.163
10/4/2016	9:15 AM	1,896,130.0	RST	118.30	88,488.40	28	4.225	671	0.176
9/6/2016	10:38 AM	1,884,300.0	RST	108.00	80,784.00	27	4.000	648	0.167
8/10/2016	10:00 AM	1,873,500.0	WB	5.50	4,114.00	1	5.500	26	0.212
8/9/2016	8:05 AM	1,872,950.0	RST	104.00	77,792.00	25	4.160	598	0.174
7/15/2016	10:00 AM	1,862,550.0	RST	128.80	96,342.40	30	4.293	718	0.179
6/15/2016	12:40 PM	1,849,670.0	RST	130.30	97,464.40	28	4.654	671	0.194
5/18/2016	1:00 PM	1,836,640.4	RST	126.40	94,547.20	31	4.077	747	0.169
4/17/2016	10:00 AM	1,824,000.0	WB	9.49	7,098.52	2	4.745	48	0.198
4/15/2016	10:00 AM	1,823,050.8	RST	139.50	104,346.00	31	4.500	741	0.188
3/15/2016	1:02 PM	1,809,100.5	RST	107.01	80,043.48	27	3.963	651	0.164
2/17/2016	10:00 AM	1,798,400.0	WB	132.99	99,476.52	33	4.030	788	0.169
1/15/2016	2:12 PM	1,785,100.7	RST	99.01	74,059.48	26	3.808	628	0.158
12/20/2015	10:00 AM	1,775,200.0	WB	18.90	14,137.20	5	3.780	122	0.155
12/15/2015	8:50 AM	1,773,310.2	RST	197.10	147,430.80	51	3.865	1222	0.161
10/25/2015	10:00 AM	1,753,600.0	WB	212.59	159,017.32	53	4.011	1274	0.167
9/2/2015	8:28 AM	1,732,340.9	RST	31.41	23,494.68	8	3.926	190	0.165
8/25/2015	10:00 AM	1,729,200.0	WB	138.69	103,740.12	33	4.203	794	0.175
7/23/2015	8:10 AM	1,715,330.9	WMT	28.31	21,175.88	7	4.044	168	0.169
7/16/2015	8:00 AM	1,712,500.4	WMT	4.50	3,366.00	1	4.500	23	0.196
7/15/2015	9:00 AM	1,712,050.4	WMT	68.50	51,238.00	17	4.029	407	0.168
6/28/2015	10:00 AM	1,705,200.0	WB	259.00	193,732.00	63	4.111	1512	0.171
4/26/2015	10:00 AM	1,679,300.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

METER EVALUATION NOTES:

See Findings and Recommendations Report for specific meter notes.

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

Property Name	Heritage Pointe		
Meter Number	18047979	Meter Type	Landscape
Account Number	172741-88302	Meter Type	2"

REPORT DATED
11/10/2017

Backflow Details: Designated Backflow Size 2" Pressure Regulator?

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	52.29
Bi-Monthly Budget	104.58

Allocated S/F (Landscape) 12,500

WBIC (Weather Based Irrigation Controller)

WBIC-MAKE/MODEL Hunter I-Core w/Solar Sync

PRECISION NOZZLES

DROUGHT TOLERANT LANDSCAPE

Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @ \$1.61	53	\$85.33	53	\$85.33
Tier 2 @ \$2.14	78	\$166.92	160	\$342.40
Tier 3 @ \$2.68			32	\$85.76
Tier 4 @				
Tier 5 @				
WATER CONSUMPTION TOTALS	131	\$252.25	245	\$513.49
WATER SERVICE CHARGE		\$222.65		\$222.65
MWD SURCHARGE				\$24.50
TOTAL USAGE & CHARGES		\$474.90		\$760.64

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)
11/9/2017 11:00 AM	938,220.5	WMT	21.81	16,313.88	10	2.181	241	0.090
10/30/2017 10:00 AM	936,040.0	RST	133.71	100,015.08	25	5.348	599	0.223
10/5/2017 11:36 AM	922,669.5	WMT	0.57	426.36	2	0.285	48	0.012
10/3/2017 11:21 AM	922,613.0	WMT	0.55	411.40	1	0.550	28	0.020
10/2/2017 7:32 AM	922,558.0	WMT	48.08	35,963.84	18	2.671	425	0.113
9/14/2017 2:00 PM	917,750.0	WMT	53.80	40,242.40	15	3.587	365	0.147
8/30/2017 9:16 AM	912,370.0	RST	129.40	96,791.20	29	4.462	695	0.186
8/1/2017 10:45 AM	899,430.0	RST	10.30	7,704.40	2	5.150	48	0.215
7/30/2017 10:00 AM	898,400.0	WB	41.50	31,042.00	10	4.150	240	0.173
7/20/2017 10:40 AM	894,250.4	WMT	63.70	47,647.60	15	4.247	357	0.178
7/5/2017 1:12 PM	887,880.0	RST	156.80	117,286.40	34	4.612	819	0.191

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Water Meter Inspection and Evaluation

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METER ID# 2

6/1/2017	10:00 AM	872,200.0	WB	80.70	60,363.60	31	2.603	745	0.108
5/1/2017	9:25 AM	864,130.0	RST	50.30	37,624.40	27	1.863	647	0.078
4/4/2017	10:00 AM	859,100.0	WB	5.70	4,263.60	4	1.425	98	0.058
3/31/2017	8:35 AM	858,530.0	RST	51.00	38,148.00	30	1.700	720	0.071
3/1/2017	8:02 AM	853,430.0	RST	4.30	3,216.40	24	0.179	574	0.007
2/5/2017	10:00 AM	853,000.0	WB	6.60	4,936.80	4	1.650	98	0.067
2/1/2017	8:47 AM	852,340.0	RST	4.39	3,283.72	33	0.133	791	0.006
12/30/2016	9:30 AM	851,900.6	RST	31.01	23,195.48	23	1.348	551	0.056
12/7/2016	10:00 AM	848,800.0	WB	15.90	11,893.20	6	2.650	140	0.114
12/1/2016	2:05 PM	847,210.0	RST	107.70	80,559.60	30	3.590	719	0.150
11/1/2016	3:33 PM	836,440.0	RST	20.40	15,259.20	8	2.550	198	0.103
10/24/2016	9:00 AM	834,400.2	WMT	60.00	44,880.00	15	4.000	359	0.167
10/9/2016	10:00 AM	828,400.0	WB	24.90	18,625.20	5	4.980	121	0.206
10/4/2016	9:18 AM	825,910.0	RST	144.70	108,235.60	33	4.385	791	0.183
9/1/2016	10:38 AM	811,440.0	RST	136.40	102,027.20	22	6.200	528	0.258
8/10/2016	10:00 AM	797,800.0	WB	4.60	3,440.80	1	4.600	26	0.177
8/9/2016	8:07 AM	797,340.0	RST	123.20	92,153.60	25	4.928	598	0.206
7/15/2016	10:35 AM	785,020.2	RST	82.20	61,485.60	30	2.740	718	0.114
6/15/2016	12:41 PM	776,800.7	RST	58.01	43,391.48	28	2.072	671	0.086
5/18/2016	1:02 PM	771,000.2	RST	65.00	48,620.00	30	2.167	723	0.090
4/18/2016	10:00 AM	764,500.4	RST	0.00	0.00	1	0.000	24	0.000
4/17/2016	10:00 AM	764,500.4	WB	21.20	15,857.60	33	0.642	789	0.027
3/15/2016	1:04 PM	762,380.4	RST	18.80	14,062.40	27	0.696	651	0.029
2/17/2016	10:00 AM	760,500.0	WB	11.59	8,669.32	33	0.351	788	0.015
1/15/2016	2:13 PM	759,340.9	RST	0.41	306.68	26	0.016	628	0.001
12/20/2015	10:00 AM	759,300.0	WB	140.00	104,720.00	56	2.500	1344	0.104
10/25/2015	10:00 AM	745,300.0	WB	225.79	168,890.92	53	4.260	1274	0.177
9/2/2015	8:29 AM	722,720.6	RST	36.21	27,085.08	8	4.526	190	0.191
8/25/2015	10:00 AM	719,100.0	WB	142.30	106,440.40	33	4.312	794	0.179
7/23/2015	8:10 AM	704,870.5	WMT	26.40	19,747.20	7	3.771	168	0.157
7/16/2015	8:00 AM	702,230.2	WMT	6.70	5,011.60	1	6.700	23	0.291
7/15/2015	9:00 AM	701,560.4	WMT	216.60	162,016.80	80	2.708	1919	0.113
4/26/2015	10:00 AM	679,900.0	WB	161.00	120,428.00	63	2.556	1512	0.106
2/22/2015	10:00 AM	663,800.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

METER EVALUATION NOTES:

See Findings and Recommendations Report for specific meter notes.

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