



Advanced Environmental Landscape  
Design & Consulting, LLC

CSLB C-27 Lic#708716  
PO Box 8296, Alta Loma, CA 91737  
Phone: 909.980.8300 Fax: 909.941.6876  
[www.aelandscapedesign.com](http://www.aelandscapedesign.com)

## **WATER MANAGEMENT** **WATER ANALYSIS & RECOMMENDATIONS**

**Property Name:** East Rancho Verde  
**Report Dated:** 11/30/2017

### **HIGH PRIORITY RECOMMENDATIONS**

**High Priority Recommendations & Preventative Maintenance**

### **WEBSITE LOGIN INFORMATION**

Visit [www.aelandscapedesign.com/nationalcore](http://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)

**Property is billed bi-monthly**

#### **DOMESTIC**

**Meter 2:** Daily Average, Projected monthly Average, and latest water bill are each below budget.

**Meter 3:** Daily Average, Projected monthly Average, and latest water bill are each below budget.

**Meter 4:** Daily Average, Projected monthly Average, and latest water bill are each below budget.

#### **LANDSCAPE**

**Landscape System:**

**Irrigation Map:** Available online.

**Weather Based Irrigation Controllers:** Hunter I-Cores W/Solar Sync, installed 04/10/15

**Precision Nozzles:** Installed 04/10/15

**Turf Removal:** Usage is Minimal. Removal not recommended

**Cucamonga Valley water district Watering Restrictions are: Please check our website for your district's current restrictions.**

**Controller in Compliance: 8/11:** Controller is not currently; please see notes below in Landscape description.

***“Save Water Today, So We Have Water Tomorrow”***



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**Landscape Usage:**

**Meter 1:** Daily Average, Projected Monthly and Recent Water bill are all above budget. Both Projected and Actual are above MAWA budget for this property.

*Although the drought has ended, most water districts still encourage us to use the water restrictions that were set in place in order to continue to conserve. Due to the weather being hotter more consistently and the turf being severely stressed, we have increased water scheduling to ensure a healthy and green landscape. We will continue to monitor and we will reduce watering times as needed. In the meantime, landscape water programming is over budget.*

**Pressure Testing:**

**10/26/2016:**

Building	Pressure Reading (psi)	Pressure Regulator
1700	110	yes
1800	60	yes
1900	100	yes

***“Save Water Today, So We Have Water Tomorrow”***

# Meter Summary Coversheet

Property Name East Rancho Verde

Meter ID	Account Number	Meter Number	Meter Type
1	221173-100366	16450480	Landscape
2	221173-100362	16551029	Domestic
3	221173-100364	16551035	Domestic
4	221173-100360	16551036	Domestic
5	221173-100368	221173100368	Fire Service

# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

Property Name	East Rancho Verde		
Meter Number	16450480	Meter Type	Landscape
Account Number	221173-100366	Meter Type	1.5"

REPORT DATED  
11/27/2017

Backflow Details: Designated Backflow ☒ Size 1.5" 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	71.24
Bi-Monthly Budget	142.48

Allocated S/F (Landscape) 17,029

WBIC (Weather Based Irrigation Controller) ☒

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

PRECISION NOZZLES ☒

DROUGHT TOLERANT LANDSCAPE ☐

## Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @	161		217	
Tier 2 @				
Tier 3 @				
Tier 4 @				
Tier 5 @				
WATER CONSUMPTION TOTALS	161	\$0.00	217	\$0.00
WATER SERVICE CHARGE		\$118.79		
MWD SURCHARGE		\$8.80		
TIER TOTALS AND CHARGES				\$653.11
TOTAL USAGE & CHARGES		\$127.59		\$653.11

## 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)
11/27/2017 11:00 AM	91,015.6	WMT	110.16	82,399.68	41	2.687	985	0.112
10/17/2017 10:00 AM	80,000.0	WB	90.28	67,529.44	27	3.344	650	0.139
9/20/2017 8:25 AM	70,972.3	RST	126.72	94,786.56	35	3.621	838	0.151
8/16/2017 10:00 AM	58,300.0	WB	25.05	18,737.40	5	5.010	120	0.209
8/11/2017 10:00 AM	55,794.7	WMT	265.22	198,384.56	54	4.911	1293	0.205
6/18/2017 1:05 PM	29,272.5	RST	195.73	146,406.04	59	3.317	1419	0.138
4/20/2017 10:00 AM	9,700.0	WB	7.21	5,393.08	3	2.403	68	0.106
4/17/2017 2:20 PM	8,978.8	RST	63.78	47,707.44	35	1.822	840	0.076
3/13/2017 2:57 PM	2,601.2	RST	8.74	6,537.52	26	0.336	624	0.014
2/15/2017 2:00 PM	1,727.3	WMT	14.62	10,935.76	23	0.636	551	0.027
1/23/2017 3:07 PM	265.2	RST	0.00	0.00	5	0.000	120	0.000

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@aelandscapedesign.com](mailto:water@aelandscapedesign.com)

# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 2

Property Name	East Rancho Verde		
Meter Number	16551029	Meter Type	Domestic
Account Number	221173-100362	Meter Type	2"

REPORT DATED  
11/27/2017

Backflow Details: Designated Backflow ☒ Size 2" 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			
Description	Bldg 1800 (3 BR)			TOTALS
Units Served	18			18
Budget/Month/Unit	20			
Daily Budget Total	11.84			11.8
Monthly Budget Total	360.00			360.0
Bi-Monthly Budget Total				720.0

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

		Projected vs. Actual Water Bill Analysis					
Physical Daily-Average	3.652			Projected		Most Recent	
		Tier 1 @		222		220	
Physical Monthly-Average	111.08	Tier 2 @					
		Tier 3 @					
Physical Bi-Monthly-Average	222.16	Tier 4 @					
		Tier 5 @					
		WATER CONSUMPTION TOTALS		222	\$0.00	220	\$0.00
		SEWER COLLECT FEE		\$160.44			
		SEWER TREATMENT FEE		\$479.92			
		TIER TOTALS AND CHARGES				\$1,366.50	
		TOTAL USAGE & CHARGES		\$640.36		\$1,366.50	

## 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)
10/16/2017 10:00 AM	116,800.0	WB	94.94	71,015.12	26	3.652	626	0.152
9/20/2017 8:28 AM	107,306.2	RST	125.06	93,544.88	35	3.573	838	0.149
8/16/2017 10:00 AM	94,800.0	WB	17.72	13,254.56	5	3.544	120	0.148
8/11/2017 10:00 AM	93,028.5	WMT	205.13	153,437.24	54	3.799	1293	0.159
6/18/2017 1:07 PM	72,515.7	RST	241.16	180,387.68	59	4.087	1419	0.170
4/20/2017 10:00 AM	48,400.0	WB	13.18	9,858.64	3	4.393	68	0.194
4/17/2017 2:24 PM	47,081.7	RST	151.74	113,501.52	47	3.229	1128	0.135
3/1/2017 2:55 PM	31,908.1	RST	69.08	51,671.84	7	9.869	172	0.402
2/22/2017 10:00 AM	25,000.0	WB	113.69	85,040.12	30	3.790	715	0.159
1/23/2017 3:00 PM	13,630.7	RST	21.58	16,141.84	5	4.316	120	0.180

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# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 3

Property Name	East Rancho Verde		
Meter Number	16551035	Meter Type	Domestic
Account Number	221173-100364	Meter Type	2"

REPORT DATED  
11/27/2017

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			
Description	Bldg 1900 (3 BR)			TOTALS
Units Served	18			18
Budget/Month/Unit	20			
Daily Budget Total	11.84			11.8
Monthly Budget Total	360.00			360.0
Bi-Monthly Budget Total				720.0

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	3.738	Tier 1 @	227		220		
Physical Monthly-Average	113.70	Tier 2 @					
Physical Bi-Monthly- Average	227.40	Tier 3 @					
		Tier 4 @					
		Tier 5 @					
WATER CONSUMPTION TOTALS			227	\$0.00	220	\$0.00	
SEWER COLLECY FEE			\$148.98				
SEWER TREATMENT FEE			\$445.64				
WATER SERVICE CHARGE			\$190.06				
TIER TOTALS AND CHARGES					\$1,318.26		
TOTAL USAGE & CHARGES			\$784.68		\$1,318.26		

## 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)
10/15/2017 10:00 AM	108,000.0	WB	93.45	69,900.60	25	3.738	602	0.155
9/20/2017 8:28 AM	98,654.7	RST	126.55	94,659.40	35	3.616	838	0.151
8/16/2017 10:00 AM	86,000.0	WB	19.17	14,339.16	5	3.834	120	0.160
8/11/2017 10:00 AM	84,082.7	WMT	184.88	138,290.24	54	3.424	1293	0.143
6/18/2017 1:09 PM	65,594.9	RST	217.95	163,026.60	59	3.694	1419	0.154
4/20/2017 10:00 AM	43,800.0	WB	11.24	8,407.52	3	3.747	68	0.165
4/17/2017 2:28 PM	42,675.7	RST	123.89	92,669.72	35	3.540	840	0.147
3/13/2017 2:52 PM	30,286.6	RST	67.87	50,766.76	19	3.572	460	0.148
2/22/2017 10:00 AM	23,500.0	WB	102.28	76,505.44	30	3.409	716	0.143
1/23/2017 2:56 PM	13,271.9	RST	14.86	11,115.28	5	2.972	119	0.125

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# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 4

Property Name	East Rancho Verde		
Meter Number	16551036	Meter Type	Domestic
Account Number	221173-100360	Meter Type	2"

REPORT DATED  
11/27/2017

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			
Description	Bldg 1700 (3 BR)			TOTALS
Units Served	4			4
Budget/Month/Unit	20			
Daily Budget Total	2.63			2.6
Monthly Budget Total	80.00			80.0
Bi-Monthly Budget Total				160.0

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	0.902	Tier 1 @		55		69	
Physical Monthly-Average	27.44	Tier 2 @					
Physical Bi-Monthly- Average	54.87	Tier 3 @					
		Tier 4 @					
		Tier 5 @					
WATER CONSUMPTION TOTALS				55	\$0.00	69	\$0.00
SEWER COLLECT FEE				\$148.98			
SEWER TREATMENT FEE				\$445.64			
WATER SERVICE CHARGE				\$190.06			
MWD SURCHARGE							
TIER TOTALS AND CHARGES						\$976.24	
TOTAL USAGE & CHARGES				\$784.68		\$976.24	

## 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)
10/16/2017 10:00 AM	37,800.0	WB	23.46	17,548.08	26	0.902	626	0.037
9/20/2017 8:28 AM	35,454.2	RST	45.54	34,063.92	35	1.301	838	0.054
8/16/2017 10:00 AM	30,900.0	WB	6.41	4,794.68	5	1.282	120	0.053
8/11/2017 10:00 AM	30,259.3	WMT	71.17	53,235.16	54	1.318	1293	0.055
6/18/2017 1:10 PM	23,142.1	RST	78.42	58,658.16	59	1.329	1419	0.055
4/20/2017 10:00 AM	15,300.0	WB	4.93	3,687.64	3	1.643	68	0.073
4/17/2017 2:30 PM	14,807.4	RST	41.94	31,371.12	35	1.198	840	0.050
3/13/2017 2:50 PM	10,613.0	RST	24.13	18,049.24	19	1.270	460	0.052
2/22/2017 10:00 AM	8,200.0	WB	36.20	27,077.60	30	1.207	716	0.051
1/23/2017 2:56 PM	4,579.9	RST	5.28	3,949.44	5	1.056	119	0.044

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# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 5

Property Name	East Rancho Verde		
Meter Number	221173100368	Meter Type	Fire Service
Account Number	221173-100368	Meter Type	4"

REPORT DATED  
11/27/2017

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 Served					0
Budget/Month/Unit					
Daily Budget Total					0.0
Monthly Budget Total					0.0
Bi-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				
Physical Daily-Average	0.000			Projected		Most Recent	
		Tier 1 @	\$2.34	0	\$0.00	0	\$0.00
Physical Monthly-Average	0.00	Tier 2 @	\$2.55	0	\$0.00	0	\$0.00
		Tier 3 @	\$3.09	0	\$0.00	0	\$0.00
Physical Bi-Monthly- Average	0.00	Tier 4 @	\$5.68	0	\$0.00	0	\$0.00
		Tier 5 @					
WATER CONSUMPTION TOTALS				0	\$0.00	0	\$0.00
Meter Service Charge				\$36.80		\$36.80	
11/21/16 PENALTY FEE							
BALANCE FORWARD							
TOTAL USAGE & CHARGES				\$36.80		\$36.80	

## 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)
9/12/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
8/22/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
8/11/2017 10:00 AM	0.0	WMT	0.00	0.00	N/A	N/A	N/A	N/A
6/25/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/25/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/20/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
2/22/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
12/22/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
7/5/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/5/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

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