



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

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

**Property Name:** Corona Del Rey  
**Report Dated:** 11/27/2017

### **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. **12/07/2015 Water Pressure Readings:** Unable to read pressure during initial site inspection due to lack of hose-bibs on exterior. Please schedule interior readings at one unit per building (water heater/kitchen or bathroom faucets) to register each building's water pressure. Please download the Pressure Reading Tutorial and Building Inspection Worksheet on the website (see website login information at the top of the recommendations)
  - a. Please use the Building Inspection Worksheet to record meter readings and identify whether or not each building has a secured hose-bib and/or a pressure regulator. Please provide readings for evaluation & recommendations. Please email the Building Inspection Worksheet to [water@aelandscapedesign.com](mailto:water@aelandscapedesign.com)

#### **WATER USAGE ANALYSIS SUMMARY**

(See individual meter reports for more detailed information)

**11/27/2017:** *Only Property Landscape meter readings included in November's report.*

#### **LANDSCAPE**

##### **Landscape System:**

**Irrigation Map:** Irrigation Map is not available at this time, as soon as it is completed we will notify you.

**Weather Based Irrigation Controllers:** Hunter I-Cores W/Solar Sync, Installed November, 2011.

**Precision Nozzles:** Installed November, 2011.

**Turf Removal:** Completed and plants establishing irrigation on per contractor discretion.

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



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**City of Corona Department of Water & Power Watering Restrictions:** Please check our website for your district’s current restrictions.

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

**Landscape Usage:**

**Meter #6:** Daily Average, Projected Monthly and Recent Water bill are all below budget.

**Meter #31:** Daily Average, Projected Monthly and Recent Water bill are all below budget.

**Pressure Testing:**

*In order to ensure that each resident is receiving optimal water pressure, we have recorded each building’s psi (pounds per square inch). We have organized all the readings in order of highest pressure readings to lowest pressure, see chart below. Desirable water pressure is between 45 and 75 psi. High pressure can cause loud pipes, pinhole leaks in joints, and water hammering; pipes loudly banging inside of walls due to air in the water lines. While low pressure could be a sign of multiple problems; mineral deposits in pipes, leaks, or a faulty pressure regulator.*

The buildings have high pressure, please schedule evaluating the pressure at each building and adjusting the pressure at the boiler room gradually. (See Below)

Building	Pressure Test (psi)	Pressure Regulator			
229	100	Yes	216	80	Yes
264	95	Yes	205	80	Yes
Laundry Room	95	Yes	217	80	Yes
OFFICE	95	Yes	241	80	Yes
340	95	Yes	277	80	Yes
240	90	Yes	216	80	Yes
204	90	Yes	228	80	Yes
265	90	Yes	252	80	Yes
315	90	Yes	310	80	Yes
310	90	Yes	320	80	Yes
276	85	Yes	330	80	Yes
228	85	Yes	264	75	Yes
253	85	Yes	340	75	Yes
204	85	Yes	330	70	Yes
240	85	Yes	335	70	Yes
320	85	Yes	276	65	Yes
325	85	Yes	345	65	Yes
252	80	Yes	PRE-SCHOOL	N/A	NO

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

# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 6

Property Name	Corona Del Rey		
Meter Number	97895246	Meter Type	Landscape
Account Number	02505950-017556	Meter Type	2"

REPORT DATED  
11/27/2017

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	321.57

Allocated S/F (Landscape) 76,868

WBIC (Weather Based Irrigation Controller)

WBIC-MAKE/MODEL HUNTER 1-CORE W/SOLAR SYNC

PRECISION NOZZLES

DROUGHT TOLERANT LANDSCAPE

## Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @	55		50	
Tier 2 @				
Tier 3 @				
Tier 4 @				
Tier 5 @				
<b>WATER CONSUMPTION TOTALS</b>	<b>55</b>	<b>\$0.00</b>	<b>50</b>	<b>\$0.00</b>
Ready to serve Charge 2"				
Consumption & Charges				\$208.30
<b>TOTAL USAGE &amp; CHARGES</b>		<b>\$0.00</b>		<b>\$208.30</b>

## 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)
11/2/2017 10:00 AM	8,666,700.0	WB	29.10	21,766.80	16	1.819	384	0.076
10/17/2017 10:00 AM	8,663,790.2	RST	20.90	15,633.20	13	1.608	312	0.067
10/4/2017 10:00 AM	8,661,700.0	WB	53.00	39,644.00	33	1.606	792	0.067
9/1/2017 10:00 AM	8,656,400.0	WB	26.20	19,597.60	17	1.541	404	0.065
8/15/2017 2:00 PM	8,653,780.0	RST	27.80	20,794.40	11	2.527	268	0.104
8/4/2017 10:00 AM	8,651,000.0	WB	25.90	19,373.20	27	0.959	650	0.040
7/8/2017 8:00 AM	8,648,410.0	RST	27.10	20,270.80	5	5.420	118	0.230
7/3/2017 10:00 AM	8,645,700.0	WB	20.50	15,334.00	11	1.864	266	0.077
6/22/2017 8:00 AM	8,643,650.4	RST	47.90	35,829.20	38	1.261	910	0.053
5/15/2017 10:00 AM	8,638,860.0	RST	16.60	12,416.80	10	1.660	240	0.069
5/5/2017 10:00 AM	8,637,200.0	WB	27.29	20,412.92	21	1.300	504	0.054

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, LLC

METER ID# 6

4/14/2017	10:00 AM	8,634,470.6	RST	12.71	9,507.08	9	1.412	216	0.059
4/5/2017	10:00 AM	8,633,200.0	WB	29.50	22,066.00	21	1.405	504	0.059
3/15/2017	10:00 AM	8,630,250.0	RST	19.50	14,586.00	12	1.625	288	0.068
3/3/2017	10:00 AM	8,628,300.0	WB	6.70	5,011.60	16	0.419	384	0.017
2/15/2017	10:00 AM	8,627,630.0	RST	19.30	14,436.40	12	1.608	288	0.067
2/3/2017	10:00 AM	8,625,700.0	WB	36.40	27,227.20	21	1.733	498	0.073
1/13/2017	4:00 PM	8,622,060.0	RST	0.60	448.80	8	0.075	198	0.003
1/5/2017	10:00 AM	8,622,000.0	WB	20.80	15,558.40	21	0.990	498	0.042
12/15/2016	4:00 PM	8,619,920.0	RST	31.80	23,786.40	28	1.136	672	0.047
11/17/2016	4:00 PM	8,616,740.0	RST	82.40	61,635.20	27	3.052	653	0.126
10/21/2016	11:00 AM	8,608,500.0	RST	82.90	62,009.20	37	2.241	890	0.093
9/14/2016	9:00 AM	8,600,210.0	RST	67.40	50,415.20	26	2.592	624	0.108
8/19/2016	9:00 AM	8,593,470.0	RST	37.70	28,199.60	15	2.513	359	0.105
8/4/2016	10:00 AM	8,589,700.0	WB	48.00	35,904.00	13	3.692	314	0.153
7/22/2016	8:00 AM	8,584,900.0	RST	54.00	40,392.00	21	2.571	502	0.108
7/1/2016	10:00 AM	8,579,500.0	WB	14.10	10,546.80	8	1.763	193	0.073
6/23/2016	9:00 AM	8,578,090.0	RST	29.10	21,766.80	17	1.712	407	0.071
6/6/2016	10:25 AM	8,575,180.0	RST	6.80	5,086.40	4	1.700	96	0.071
6/2/2016	10:00 AM	8,574,500.0	WB	36.00	26,928.00	28	1.286	672	0.054
5/5/2016	10:00 AM	8,570,900.0	WB	22.30	16,680.40	16	1.394	385	0.058
4/19/2016	9:25 AM	8,568,670.0	RST	29.70	22,215.60	18	1.650	431	0.069
4/1/2016	10:00 AM	8,565,700.0	WB	34.00	25,432.00	29	1.172	696	0.049
3/3/2016	10:00 AM	8,562,300.0	WB	42.00	31,416.00	27	1.556	648	0.065
2/5/2016	10:00 AM	8,558,100.0	WB	16.00	11,968.00	30	0.533	720	0.022
1/6/2016	10:00 AM	8,556,500.0	WB	4.00	2,992.00	21	0.190	500	0.008
12/16/2015	2:26 PM	8,556,100.0	RST	13.00	9,724.00	12	1.083	292	0.045
12/4/2015	10:00 AM	8,554,800.0	WB	30.00	22,440.00	30	1.000	720	0.042
11/4/2015	10:00 AM	8,551,800.0	WB	271.00	202,708.00	35	7.743	840	0.323
9/30/2015	10:00 AM	8,524,700.0	WB	102.00	76,296.00	28	3.643	672	0.152
9/2/2015	10:00 AM	8,514,500.0	WB	117.79	88,106.92	22	5.354	529	0.223
8/11/2015	9:40 AM	8,502,720.7	WMT	0.00	0.00	7	0.000	168	0.000
8/4/2015	9:35 AM	8,502,720.6	WMT	2.10	1,570.80	1	2.100	25	0.084
8/3/2015	8:50 AM	8,502,510.8	WMT	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# 31

Property Name	Corona Del Rey		
Meter Number	94681714	Meter Type	Landscape
Account Number	02505009-017556	Meter Type	1"

REPORT DATED  
11/27/2017

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	197.65

Allocated S/F (Landscape) 47,247

WBIC (Weather Based Irrigation Controller)

WBIC-MAKE/MODEL HUNTER 1-CORE W/SOLAR SYNC

PRECISION NOZZLES

DROUGHT TOLERANT LANDSCAPE

## Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @	95		90	
Tier 2 @				
Tier 3 @				
Tier 4 @				
Tier 5 @				
<b>WATER CONSUMPTION TOTALS</b>	<b>95</b>	<b>\$0.00</b>	<b>90</b>	<b>\$0.00</b>
Ready to Serve Charge 1 1/2"		\$62.90		
Consumption & Charges				\$272.60
<b>TOTAL USAGE &amp; CHARGES</b>		<b>\$62.90</b>		<b>\$272.60</b>

## 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)
11/2/2017 10:00 AM	5,995,200.0	WB	50.62	37,863.76	16	3.164	378	0.134
10/17/2017 4:08 PM	5,990,138.0	RST	39.38	29,456.24	13	3.029	318	0.124
10/4/2017 10:00 AM	5,986,200.0	WB	108.00	80,784.00	33	3.273	792	0.136
9/1/2017 10:00 AM	5,975,400.0	WB	57.90	43,309.20	17	3.406	404	0.143
8/15/2017 2:00 PM	5,969,610.0	RST	39.10	29,246.80	11	3.555	268	0.146
8/4/2017 10:00 AM	5,965,700.0	WB	46.70	34,931.60	27	1.730	650	0.072
7/8/2017 8:00 AM	5,961,030.0	RST	69.56	52,030.88	16	4.348	384	0.181
6/22/2017 8:00 AM	5,954,074.0	RST	77.74	58,149.52	20	3.887	478	0.163
6/2/2017 10:00 AM	5,946,300.0	WB	52.60	39,344.80	18	2.922	432	0.122
5/15/2017 10:00 AM	5,941,040.0	RST	94.64	70,790.72	31	3.053	744	0.127
4/14/2017 10:00 AM	5,931,576.0	RST	19.76	14,780.48	9	2.196	216	0.091

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# Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 31

4/5/2017	10:00 AM	5,929,600.0	WB	19.40	14,511.20	22	0.882	528	0.037
3/14/2017	10:00 AM	5,927,660.0	RST	2.60	1,944.80	11	0.236	264	0.010
3/3/2017	10:00 AM	5,927,400.0	WB	1.00	748.00	16	0.063	384	0.003
2/15/2017	10:00 AM	5,927,300.0	RST	3.00	2,244.00	12	0.250	288	0.010
2/3/2017	10:00 AM	5,927,000.0	WB	2.20	1,645.60	21	0.105	498	0.004
1/13/2017	4:00 PM	5,926,780.0	RST	0.80	598.40	8	0.100	198	0.004
1/5/2017	10:00 AM	5,926,700.0	WB	16.00	11,968.00	21	0.762	498	0.032
12/15/2016	4:00 PM	5,925,100.0	RST	61.40	45,927.20	28	2.193	672	0.091
11/17/2016	4:00 PM	5,918,960.0	RST	82.20	61,485.60	27	3.044	653	0.126
10/21/2016	11:00 AM	5,910,740.0	RST	121.60	90,956.80	37	3.286	890	0.137
9/14/2016	9:00 AM	5,898,580.0	RST	132.10	98,810.80	26	5.081	624	0.212
8/19/2016	9:00 AM	5,885,370.0	RST	86.70	64,851.60	15	5.780	359	0.242
8/4/2016	10:00 AM	5,876,700.0	WB	103.80	77,642.40	13	7.985	314	0.331
7/22/2016	8:00 AM	5,866,320.0	RST	186.20	139,277.60	21	8.867	502	0.371
7/1/2016	10:00 AM	5,847,700.0	WB	46.20	34,557.60	8	5.775	193	0.239
6/23/2016	9:00 AM	5,843,080.0	RST	100.80	75,398.40	17	5.929	405	0.249
6/6/2016	12:30 PM	5,833,000.0	RST	18.00	13,464.00	4	4.500	98	0.184
6/2/2016	10:00 AM	5,831,200.0	WB	143.00	106,964.00	28	5.107	672	0.213
5/5/2016	10:00 AM	5,816,900.0	WB	59.00	44,132.00	16	3.688	383	0.154
4/19/2016	11:35 AM	5,811,000.0	RST	60.00	44,880.00	18	3.333	433	0.139
4/1/2016	10:00 AM	5,805,000.0	WB	66.00	49,368.00	29	2.276	696	0.095
3/3/2016	10:00 AM	5,798,400.0	WB	70.00	52,360.00	27	2.593	648	0.108
2/5/2016	10:00 AM	5,791,400.0	WB	20.00	14,960.00	30	0.667	720	0.028
1/6/2016	10:00 AM	5,789,400.0	WB	22.00	16,456.00	21	1.048	500	0.044
12/16/2015	2:10 PM	5,787,200.0	RST	24.00	17,952.00	12	2.000	292	0.082
12/4/2015	10:00 AM	5,784,800.0	WB	63.00	47,124.00	30	2.100	720	0.088
11/4/2015	10:00 AM	5,778,500.0	WB	162.00	121,176.00	35	4.629	840	0.193
9/30/2015	10:00 AM	5,762,300.0	WB	102.00	76,296.00	28	3.643	672	0.152
9/2/2015	10:00 AM	5,752,100.0	WB	95.19	71,202.12	22	4.327	528	0.180
8/11/2015	10:05 AM	5,742,580.9	WMT	0.00	0.00	7	0.000	167	0.000
8/4/2015	11:35 AM	5,742,580.8	WMT	0.00	0.00	1	0.000	24	0.000
8/3/2015	11:00 AM	5,742,580.8	WMT	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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