



Advanced Environmental Landscape
Design & Consulting, LLC

CSLB C-27 Lic#708716
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WATER MANAGEMENT **WATER ANALYSIS & RECOMMENDATIONS**

Property Name: Hawthorne Terrace
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. **10/26/2016: Water Pressure Readings:** Unable to obtain readings on Buildings 12938, 13002, 12927, and 12935.
 - 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.

WATER USAGE ANALYSIS SUMMARY

(See individual meter reports for more detailed information)

DOMESTIC

This meter contains 2 compound meters; (1) 3" meter and (1) 5/8" meter that services the West property. Meter # 1A/1B: Daily Average, Projected Monthly Average, and current water bill are each below budget.

LANDSCAPE

Landscape System:

Irrigation Map: Irrigation map in progress, once available it will be emailed.

Weather Based Irrigation Controller: Hunter I-Core W/Solar Sync, installed 07/01/15.

Precision Nozzles: Property is not equipped with Precision Nozzles at this time.

Turf Removal: Completed by Liberty Landscaping, Inc., removed 11,975 square feet.

Controller in Compliance: Please have your current landscape company submit the current irrigation schedule (e.g. what days per week? Running time?).

“Save Water Today, So We Have Water Tomorrow”



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Landscape Usage:

MIXED METER

This meter contains 2 compound meters; (1) 3” meter and (1) 5/8” meter that services the East property. This meter is a ‘MIXED’ meter, and also services the property’s landscaping.

Meter # 2A/2B:

Daily Average, Projected Monthly Average, and current water bill are each below budget.

Pressure Testing:

In order to ensure that each resident is receiving optimal water pressure, we have recorded the building psi (pounds per square inch). 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. [Building pressure readings for buildings with accessible hose bibs are average, no concern.](#)

Building	Pressure Reading (psi)	Pressure Regulator
13007	65	NO
12942	65	NO
13010	65	NO
13006	65	NO
12931	65	NO
Laundry 1	65	NO
12946	60	NO
12939	60	NO
12923	60	NO
Laundry 2	60	NO
12938	no bib	NO
13002	no bib	NO
12927	no bib	NO
12935	no bib	NO

“Save Water Today, So We Have Water Tomorrow”

Meter Summary Coversheet

Property Name Hawthorne Terrace

Meter ID	Account Number	Meter Number(s)	Meter Type
1	67023300006	3973607 3973607-2	Domestic
2	41722300005	3973604 3973604-2	Mixed
3	61722300003	4554885	Fire Service

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

Property Name	Hawthorne Terrace		
Meter Number	3973607	Meter Type	Domestic
Account Number	67023300006	Meter Type	5/8"

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	Multi-Unit Building	Laundry		
Description	West Bldg (1 BDR)	West Bldg (2 BDR)	H21PDDWW/MAT12PDE		TOTALS
Units Served	31	18	6		55
Budget/Month/Unit	9	14	11		
Daily Budget Total	9.17	8.28	2.17		19.6
Monthly Budget Total	279.00	252.00	66.00		597.0

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

Multiple Meters on Water Account:

Meter Number	Size
Meter A 3973607	5/8"
Meter B 3973607-2	3"
Meter C	N/A

Daily Avg. Meter A	3.013
Daily Avg. Meter B	6.538
Daily Avg. Meter C	
Daily Avg Meter Total	9.551
Monthly Avg Meter Total	290.510

Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @				
Tier 2 @ \$3.90	291	\$1,135.48	280	\$1,092.56
Tier 3 @				
Tier 4 @				
Tier 5 @				
WATER CONSUMPTION TOTALS	291	\$1,135.48	280	\$1,092.56
SERVICE CHARGE		\$329.45		\$335.85
CARW/WRAM SURCHARGE				\$216.16
CREDIT				(\$2.77)
CPUC FEE/City Tax/Other Charges				\$105.73
Sewer Charges @ 0.4845/HCF				\$135.66
TOTAL USAGE & CHARGES		\$1,464.93		\$1,883.19

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)
11/2/2017 10:00 AM	655,200.0	WB	48.20	36,053.60	16	3.013	380	0.127
10/17/2017 2:20 PM	650,380.0	RST	70.80	52,958.40	13	5.446	316	0.224
10/4/2017 10:00 AM	643,300.0	WB	62.78	46,959.44	16	3.924	379	0.166
9/18/2017 3:00 PM	637,022.0	RST	73.22	54,768.56	18	4.068	437	0.168
8/31/2017 10:00 AM	629,700.0	WB	63.42	47,438.16	16	3.964	382	0.166
8/15/2017 12:40 PM	623,358.0	RST	110.68	82,788.64	29	3.817	698	0.159
7/17/2017 10:16 AM	612,290.0	RST	53.90	40,317.20	14	3.850	336	0.160
7/3/2017 10:00 AM	606,900.0	WB	67.77	50,691.96	18	3.765	429	0.158
6/15/2017 1:55 PM	600,123.0	RST	108.13	80,881.24	31	3.488	742	0.146
5/15/2017 3:00 PM	589,310.0	RST	44.10	32,986.80	13	3.392	317	0.139

This report was prepared by Advanced Environmental Landscape Design & Consulting, LLC. If you have any questions regarding this report please contact us

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

METER B:

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	1,060,900.0	WB	104.60	78,240.80	16	6.538	380	0.275
10/17/2017 2:40 PM	1,050,440.0	RST	56.40	42,187.20	13	4.338	316	0.178
10/4/2017 10:00 AM	1,044,800.0	WB	313.00	234,124.00	16	19.563	379	0.826
9/18/2017 3:10 PM	1,013,500.0	RST	-70.00	-52,360.00	18	-3.889	437	-0.160
8/31/2017 10:00 AM	1,020,500.0	WB	101.50	75,922.00	16	6.344	382	0.266
8/15/2017 12:45 PM	1,010,350.0	RST	179.80	134,490.40	29	6.200	698	0.258
7/17/2017 10:17 AM	992,370.0	RST	85.70	64,103.60	14	6.121	336	0.255
7/3/2017 10:00 AM	983,800.0	WB	111.20	83,177.60	18	6.178	429	0.259
6/15/2017 1:55 PM	972,680.0	RST	112.10	83,850.80	31	3.616	742	0.151
5/15/2017 3:00 PM	961,470.0	RST	46.70	34,931.60	13	3.592	317	0.147
5/2/2017 10:00 AM	956,800.0	WB	55.90	41,813.20	19	2.942	451	0.124
4/13/2017 3:00 PM	951,210.0	RST	30.10	22,514.80	11	2.736	269	0.112
4/2/2017 10:00 AM	948,200.0	WB	68.60	51,312.80	19	3.611	452	0.152
3/14/2017 2:35 PM	941,340.0	RST	51.40	38,447.20	12	4.283	292	0.176
3/2/2017 10:00 AM	936,200.0	WB	71.60	53,556.80	14	5.114	336	0.213
2/16/2017 10:00 AM	929,040.0	RST	47.40	35,455.20	15	3.160	360	0.132
2/1/2017 10:00 AM	924,300.0	WB	50.40	37,699.20	19	2.653	451	0.112
1/13/2017 3:00 PM	919,260.0	RST	24.60	18,400.80	10	2.460	245	0.100
1/3/2017 10:00 AM	916,800.0	WB	53.80	40,242.40	19	2.832	452	0.119
12/15/2016 2:20 PM	911,420.0	RST	39.20	29,321.60	13	3.015	316	0.124
12/2/2016 10:00 AM	907,500.0	WB	61.90	46,301.20	17	3.641	408	0.152
11/15/2016 10:00 AM	901,310.0	RST	56.10	41,962.80	14	4.007	336	0.167
11/1/2016 10:00 AM	895,700.0	WB	49.80	37,250.40	13	3.831	312	0.160
10/19/2016 10:00 AM	890,720.0	RST	55.20	41,289.60	15	3.680	360	0.153
10/4/2016 10:00 AM	885,200.0	WB	68.10	50,938.80	18	3.783	429	0.159
9/16/2016 1:45 PM	878,390.0	RST	63.90	47,797.20	16	3.994	387	0.165
8/31/2016 10:00 AM	872,000.0	WB	65.30	48,844.40	16	4.081	378	0.173
8/15/2016 4:00 PM	865,470.0	RST	61.70	46,151.60	13	4.746	318	0.194
8/2/2016 10:00 AM	859,300.0	WB	86.80	64,926.40	18	4.822	433	0.200
7/15/2016 9:10 AM	850,620.0	RST	50.20	37,549.60	9	5.578	215	0.233
7/6/2016 10:00 AM	845,600.0	WB	160.70	120,203.60	21	7.652	504	0.319
6/15/2016 10:00 AM	829,530.0	RST	65.30	48,844.40	14	4.664	336	0.194
6/1/2016 10:00 AM	823,000.0	WB	80.96	60,558.08	13	6.228	311	0.260
5/19/2016 11:00 AM	814,904.0	RST	149.04	111,481.92	17	8.767	409	0.364
5/2/2016 10:00 AM	800,000.0	WB	107.20	80,185.60	14	7.657	334	0.321
4/18/2016 12:30 PM	789,280.0	RST	101.80	76,146.40	14	7.271	338	0.301
4/4/2016 10:00 AM	779,100.0	WB	227.00	169,796.00	34	6.676	816	0.278
3/1/2016 10:00 AM	756,400.0	WB	91.60	68,516.80	13	7.046	310	0.295
2/17/2016 12:00 PM	747,240.0	RST	102.40	76,595.20	16	6.400	386	0.265

This report was prepared by Advanced Environmental Landscape Design & Consulting, LLC. If you have any questions regarding this report please contact us

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

Property Name	Hawthorne Terrace		
Meter Number	3973604	Meter Type	Mixed
Account Number	41722300005	Meter Type	5/8"

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	Landscape	Multi-Unit Building	Laundry	
Description	Landscape	East Bldg (1/2/3 BDR)	AH21PDDWW/MAT12PI	TOTALS
Units Served	11425	48	6	11,479
Budget/Month/Unit	0.0042	43	11	
Daily Budget Total	1.58	67.86	2.17	71.6
Monthly Budget Total	47.99	2,064.00	66.00	2,178.0

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

Multiple Meters on Water Account:

Meter Number	Size
Meter A 3973604	5/8"
Meter B 3973604-2	3"
Meter C	N/A

Daily Avg. Meter A	0.035
Daily Avg. Meter B	10.853
Daily Avg. Meter C	
Daily Avg Meter Total	10.888
Monthly Avg Meter Total	331.177

Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @ \$3.90	331	\$1,291.56	356	\$1,389.11
Tier 2 @				
Tier 3 @				
Tier 4 @				
Tier 5 @				
WATER CONSUMPTION TOTALS	331	\$1,291.56	356	\$1,389.11
SERVICE CHARGE		\$335.85		\$335.85
CARW/WRAM SURCHARGE				\$274.83
CITY TAX/CPUC FEE				\$129.13
SEWER CHARGES				\$172.48
OTHER CHARGES				\$5.33
TOTAL USAGE & CHARGES		\$1,627.41		\$2,306.73

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)
11/2/2017 10:00 AM	105,100.0	WB	0.56	418.88	16	0.035	380	0.001
10/17/2017 2:40 PM	105,044.0	RST	50.44	37,729.12	13	3.880	316	0.160
10/4/2017 10:00 AM	100,000.0	WB	22.62	16,919.76	16	1.414	384	0.059
9/18/2017 10:00 AM	97,738.0	RST	28.38	21,228.24	18	1.577	432	0.066
8/31/2017 10:00 AM	94,900.0	WB	22.47	16,807.56	16	1.404	372	0.060
8/15/2017 10:00 PM	92,653.0	RST	46.91	35,088.68	29	1.618	708	0.066
7/17/2017 10:27 AM	87,962.0	RST	23.62	17,667.76	14	1.687	336	0.070
7/3/2017 10:00 AM	85,600.0	WB	30.47	22,791.56	18	1.693	429	0.071
6/15/2017 1:30 PM	82,553.0	RST	21.53	16,104.44	14	1.538	339	0.064
6/1/2017 10:00 AM	80,400.0	WB	26.22	19,612.56	17	1.542	403	0.065

This report was prepared by Advanced Environmental Landscape Design & Consulting, LLC. If you have any questions regarding this report please contact us

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)
11/2/2017 10:00 AM	665,700.0	WB	173.64	129,882.72	16	10.853	380	0.457
10/17/2017 2:40 PM	648,336.0	RST	131.36	98,257.28	13	10.105	316	0.416
10/4/2017 10:00 AM	635,200.0	WB	179.10	133,966.80	16	11.194	384	0.466
9/18/2017 10:00 AM	617,290.0	RST	196.90	147,281.20	18	10.939	432	0.456
8/31/2017 10:00 AM	597,600.0	WB	159.30	119,156.40	16	9.956	384	0.415
8/15/2017 10:00 AM	581,670.0	RST	343.00	256,564.00	29	11.828	697	0.492
7/17/2017 9:00 AM	547,370.0	RST	174.70	130,675.60	14	12.479	335	0.521
7/3/2017 10:00 AM	529,900.0	WB	234.00	175,032.00	18	13.000	429	0.545
6/15/2017 1:30 PM	506,500.0	RST	125.00	93,500.00	14	8.929	339	0.369
6/1/2017 10:00 AM	494,000.0	WB	144.00	107,712.00	17	8.471	403	0.357
5/15/2017 3:40 PM	479,600.0	RST	149.00	111,452.00	13	11.462	317	0.470
5/2/2017 10:00 AM	464,700.0	WB	155.60	116,388.80	19	8.189	451	0.345
4/13/2017 3:20 PM	449,140.0	RST	204.00	152,592.00	30	6.800	721	0.283
3/14/2017 2:00 PM	428,740.0	RST	62.40	46,675.20	12	5.200	292	0.214
3/2/2017 10:00 AM	422,500.0	WB	47.80	35,754.40	14	3.414	337	0.142
2/16/2017 9:00 AM	417,720.0	RST	66.20	49,517.60	34	1.947	815	0.081
1/13/2017 10:00 AM	411,100.0	WB	133.00	99,484.00	10	13.300	240	0.554
1/3/2017 10:00 AM	397,800.0	WB	101.90	76,221.20	19	5.363	453	0.225
12/15/2016 1:45 PM	387,610.0	RST	108.10	80,858.80	13	8.315	315	0.343
12/2/2016 10:00 AM	376,800.0	WB	134.90	100,905.20	17	7.935	408	0.331
11/15/2016 10:00 AM	363,310.0	RST	122.10	91,330.80	14	8.721	336	0.363
11/1/2016 10:00 AM	351,100.0	WB	95.10	71,134.80	13	7.315	312	0.305
10/19/2016 10:00 AM	341,590.0	RST	134.90	100,905.20	15	8.993	360	0.375
10/4/2016 10:00 AM	328,100.0	WB	170.80	127,758.40	18	9.489	429	0.398
9/16/2016 1:08 PM	311,020.0	RST	158.20	118,333.60	16	9.888	387	0.409
8/31/2016 10:00 AM	295,200.0	WB	125.74	94,053.52	16	7.859	379	0.332
8/15/2016 3:00 PM	282,626.2	RST	116.26	86,962.48	13	8.943	317	0.367
8/2/2016 10:00 AM	271,000.0	WB	337.90	252,749.20	18	18.772	433	0.780
7/15/2016 9:50 AM	237,210.0	RST	122.10	91,330.80	9	13.567	215	0.568
7/6/2016 10:00 AM	225,000.0	WB	201.50	150,722.00	21	9.595	504	0.400
6/15/2016 10:40 AM	204,850.0	RST	126.50	94,622.00	14	9.036	336	0.376
6/1/2016 10:00 AM	192,200.0	WB	95.00	71,060.00	13	7.308	312	0.304
5/19/2016 10:00 AM	182,700.0	RST	140.00	104,720.00	17	8.235	408	0.343
5/2/2016 10:00 AM	168,700.0	WB	130.10	97,314.80	14	9.293	335	0.388
4/18/2016 11:30 AM	155,690.0	RST	129.90	97,165.20	14	9.279	337	0.385
4/4/2016 10:00 AM	142,700.0	WB	219.00	163,812.00	27	8.111	648	0.338
3/8/2016 10:00 AM	120,800.0	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

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 3

Property Name	Hawthorne Terrace		
Meter Number	4554885	Meter Type	Fire Service
Account Number	61722300003	Meter Type	5/8"

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 @	0	0	
Physical Monthly-Average	0.00	Tier 2 @			
		Tier 3 @			
		Tier 4 @			
		Tier 5 @			
		WATER CONSUMPTION TOTALS	0	\$0.00	0 \$0.00
		Service-Charge Fire Protection		\$30.00	\$30.00
		CPUC Fee		\$0.35	\$0.43
		City Tax		\$1.50	\$1.50
		TOTAL USAGE & CHARGES		\$31.85	\$31.93

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
10/3/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
8/31/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
7/3/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
6/2/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/2/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/4/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
3/2/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/31/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/3/2017 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