Going Beyond Energy with WERS – The Water Efficiency Rating Score

Green Builder® Coalition September 28, 2015



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Course Objectives

Participants will be able to:

- Go beyond considering only energy and support the importance of water conservation, even in "water rich" states.
- Identify key measurable interior and exterior building elements that affect energy and water use.
- Estimate the measurable results of water consuming interior and exterior building elements using predictive and performance based modeling.
- Recognize region appropriate energy and water conservation strategies through the presentation of the results of a specific case study.
- Help convey the benefit of performance based water conservation to state and/or local jurisdictions/communities, and/or elected officials, in adopting water conservation measures.



The Green Builder[®] Coalition

- National, non-profit membership organization for green building professionals
- Founded in 2010
- Offers information, technical assistance and advocacy services



Introduction to the WERS

What is the WERS? Why is it Necessary? Projections Benefits



What is the Water Efficiency Rating Score?





Score = 0 to 100





3rd Party



Why is the WERS Necessary?

Measurement and incentives increase participation in conservation efforts



Domestic Water Use Projections





Total Withdrawals

Estimated Use of Water in the United States in 2005





Withdrawals – Surface and Ground



Total, surface-water, and groundwater withdrawals, 2005.

USGS Water-Science School -- http://ga.water.usgs.gov/edu/

Source: Kenny, J.F., Barber, N.L., Hutson, S.S., Linsey, K.S., Lovelace, J.K., and Maupin, M.A., 2009, Estimated use of water in the United States in 2005: U.S. Geological Survey Circular 1344, 52 p.

≤USGS



Irrigation Withdrawals



11



Stormwater Challenges

- Infrastructure Requirement Costs Too High
 - East of the Mississippi Water Quality of Surface Water Runoff
 - West of the Mississippi Importing Water Onto A Property is Expensive; Using Potable Water for Landscaping is Becoming Socially Unacceptable
- Building Elaborate Systems to Transport Water is An Inherently Wasteful Use of <u>Energy and Money</u>
- Combined Storm & Sewer Systems Can Overflow
 in Extreme Events





What Are the Benefits of using the WERS?

Potential financial incentives

- Reduced storm water impact fees
- Reduced tap fees
- Potential tax credits
 - Senate Bill 279 in NM was approved and will be funded in 2016
- Support of codes, regulations, and enforcement
 - Can be easily incorporated into existing Santa Fe Residential Green Building Code (SFRGBC)
- Long term conservation of a precious resource we all need





How is the WERS Different from Other Programs

- EPA WaterSense
 - Points for indoor fixtures go toward green certifications like SFRGBC, LEED, and NGBS
 - Only measures portion of outdoor water metrics
- The HERS Index
 - Ensures that home energy efficiency and indoor air quality metrics meet code and local requirements
 - Does not measure water usage
 - Extensive training and certification is required to use the tool
- Building Performance Institute
 - Does not measure water usage
 - Extensive training and certification is required to use the tool

The WERS tool can be used to generate a predictive modeling estimate of water usage and stormwater management for new and existing homes!

WERS Pilot Projects

Map of Test Sites The "Double Zero" Home – Water Use Analysis



Where is the WERS Being Piloted?



Project Information Inputs

•User to complete the information in the white boxes.

•Orange boxes are pulldowns that require a response.

•Purple boxes are informational and grey boxes need no action.

•Cells with a small red triangle have additional guidance provided in a "fly-out" box.

| Building Information | | | | | | | |
|-----------------------------------|---|---|-------------------------|------------------------|----------------------------|----------|--|
| New or Existing? | NEW | # of b | edrooms 1 | House footprin | t in sf | 3,190.00 | |
| Туре | Single Home | # | # of floors 1 | Roof | pitch 0.25 | in 12 | |
| # of units total | | ave. floor | to floor ht 0 | Roof | Type Met | al | |
| Sample set size | | main HW | pipe dia. 0.75 | R | oof sf 3190 | .69 | |
| Climate Information | | | | | | | |
| Average Annual Rain | 8.91 | MUNICIF | AL OVERRIDE: Average | ge Annual Rain | TBD | | |
| Average Annual ETO | 5.86 | MUNICIPAL OVERRIDE: Average Annual ETO | | | | | |
| Average Annual Watering Months | TBD | MUNICIPAL OVERRIDE: Average Annual Watering Months | | | | | |
| Site Information | | | | | | | |
| Lot Size (sf) | 3528360.00 | _ | Maxium | Allowable Irrigat | ion Per Code | | |
| Encroachments | 0.00 | | Please only use one met | hod if required by cod | e, otherwise leave both as | zero | |
| Under Roof (sf) | 3630.00 | 0.0 | by % 0% |) | 2 504 720 | 0.0 | |
| Remaining Lot (sf) | 3524730.00 | UR | by sf 0.00 |) | 3,524,730. | 00 | |
| Collection / Infiltration / | Land Use Workshe | et | | | | | |
| All Turf (sf) | 0.00 | 0.00% | Directed Imp. Pa | ving (sf) | 0.00 | 0.00% | |
| New Softscape (sf) | 730.00 | 0.02% | Remaining Imper | vious (sf) | 0.00 | 0.00% | |
| Existing Softscape (sf) | 0.00 | 0.00% | Prohibited Landscape | Area (sf) | 3,524,000.00 | 99.98% | |
| Water Features (sf) | 0.00 | 0.00% | (| Other (sf) | 0.00 | 0.00% | |
| Permeable Paving (sf) | 0.00 | 0.00% | must tot | al 100% | 0 sf to go | 100.00% | |
| TOTAL | 730.00 | | | | | | |
| Start Here Indoor U | Start Here Indoor Use WERS / Capture & Usage / Exterior Use DESIGN / Verification Summary / WERS REPORT | | | | | | |



IU1 Indoor Fixtures and Appliances

*** PLEASE DO NOT USE "COPY AND PASTE" ANYWHERE IN THIS TABLE ***



Use in Prescriptive Path? N Industry Baseline GPF / GPM / GPC / etc. Proposed Units GPF / GPM / GPC / etc. (Baseline vs. Proposed) Minimum Prescriptive Gallons Saved Over Baseline Percent Saved ъ Applicable to Proposed or Actual Daily (Testing Confirmed? Path Units Installation Per Fixture Project? GPF/GPM/GPC/etc. Gallons Inputs (Base on information provided on **Fixture or Appliance** the "Start Here" tab.) Notes Toilet (GPF) 1.60 1.28 0.80 Α 50.00 Ν Y 8.0 В Showerhead (GPM) 2.50 2.00 1.50 15.0 10.0 40.00 V Ν С Lavatory (GPM) 2.20 1.50 1.00 54.55% Y 2.5 Ν D Kitchen Faucet (GPM) 2.20 2.20 2.20 17.6 0.00% v Ν Ε Dishwasher (GPC) 6.50 4.25 2.90 2.90 55.38% Ν F1 Washer Size in CF 3.90 Ν esign F2 Washer WF 9.50 9.50 3.21 12.52 24.53 66.219 Ν Water used to reach 100 G 2.00 0.10 95.00% 1.50 38.00 2.00 Ν degrees (GPU) Indoor Water Features in Н Gallons/Day N/A 0.0 Ν N (See worksheet below) Total AVERAGE Rainwater reuse gal/day credit: 0.00 ndoor AVERAGE Greywater reuse gal/day credit: 0.00 AVERAGE Adjusted usage gal/day: MINIMUM REQUIRED NOT FINAL 85 41 Project INDOOR WERS SUBTOTAL INDOOR WERS SUBTOTAL The WERS (Water Efficiency Rating Score) is based on 0 to 100 with 0 being the best performing home. CONSERVATION 2,613.93 31,802.82 GALLONS PER: day 87.13 month vear **BASELINE VS. PROPOSED** \$15.68 \$470.51 \$5,724.51 SAVINGS PER: day month year ► ► Start Here Indoor Use WERS Capture & Usage Exterior Use DESIGN Verification Summary WERS REPORT 1

Capture & Usage Declaration

•Program needs to be told the sources of water capture.

•Rainwater available is determined by the percent of roof and / or directed impervious surfaces.

•Greywater available is determined by the information provided on the Indoor Use tab in conjunction with the selected fixtures from which it will be collected.

| | Water Efficiency Rating Score | | | | | | | | | | | |
|--|---|--------------------------|------------------------|---------------------|------------------|-----------------|--|-----------------|---------------------------|---------------------|-------------------|----------------------|
| Capture and Usage | | | | | | | | | | | | |
| Builder Bob Verificat Steve | Kregei ^{ion} e Onst | r of Krege ad, Teri B | er Desigr Buhl of E | n Build vergreer | n Building |] | Report Date: 3/24/2015 This report is for: Preliminary Analysis | | | | | /2015 ry Analysis |
| Project | Pinonceros Rd Youngsville NM 87064 Pinonceros Rd Youngsville NM 87064 +Crange baxes are pulldowns that require a response +Crange baxes and grey baxes need no action +Cells with a small red triangle have additional guidance provided in a "Ny- put" bax. | | | | | | | | | | | |
| Inspection Information PLEASE DO NOT USE "COPY AND PASTE" ANYWHERE ON THIS TAB | | | | | | | | | | | | |
| Date | | | Time | | | Code | 2009 | ICC | Buildin | g Program | Passiv | e House |
| 1.1 Potential Rainwater Capture Calculations | | | | | | | | | | | | |
| | | | | | | 100.00% | | | | | | |
| | 0.1 | Rainwaler | Source? | 100 | | | | D (D | | aplured % | | 100.00% |
| | Site | vvater (ave | gai/mtn) | | 0.00 | | | KOOT KA | inwater (a) | /e gai/mtn) | | 1,401.85 |
| | 1.2 JAN | Potenti FEB | al Avera MAR | ge Rainv APR | water Cap MAY | oture by JUN | Month in JUL | n Gallon AUG | IS (Only fo SEP | r informatio OCT | nal purpos NOV | es) DEC |
| | 774.08 | 830.72 | 774.08 | 849.60 | 1,151.68 | 1,359.36 | 2,756.48 | 3,039.68 | 2,265.60 | 1,529.28 | 604.16 | 887.36 |
| CU2 Grey Water Capture | | | | | | | | | | | | |
| | 2.1 | Potenti | al Greyw | ater Ca | oture | | | | | | | |
| | | Greywater (| Capture? | Y | es | | Po | tential Gre | eywater (av | /e gal/mth) | | 913.08 |
| | \$ | Sources? (ir | n gallons) | ALL | Yes | Lavatory | | Showe | r and Tub | | Washer | |
| | 2.2 | Potenti | al Avera | ge Grey | water Cap | oture by | Month i | n Gallor | 1S (Only fo | or informatio | nal purpos | ses) |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| | 930.59 | 840.53 | 930.59 | 900.57 | 930.59 | 900.57 | 930.59 | 930.59 | 900.57 | 930.59 | 900.57 | 930.59 |
| N <mark>-</mark> S | tart He | re / Indo | or Use W | ERS Ca | apture & l | Jsage / | Exterior | Use DESI | GN 🖉 \ | /erification S | Summary | WERS RE |
| | | | | | | | | | | | | |



Capture & Usage Declaration

•Program needs to be told where the captured water will be used.

•Unless a state or municipality allows combined rainwater and greywater, both are considered separately.

•Depending on the collection and usage, storage tanks are automatically sized.



NOTES: WATER TREATMENT: RAIN WATER TO POTABLE WATER



GIVEN: LOCAL SUB-SURFACE WATER IS NOT AVAILABLE. PUBLIC WATER SUPPLY IS NOT AVAILABLE.

TARGET SOURCE WATER IS 100% RAIN WATER CAPTURED BY THE 3,112 SQ FT OF ROOF AREA. IN-LINE FILTRATION SPECIFICATIONS DEPEND ON CERTIFIED WATER TEST OF THIS SOURCE WATER. DESIGN FLOW = 4 GPM.











IU1 Indoor Fixtures and Appliances

*** PLEASE DO NOT USE "COPY AND PASTE" ANYWHERE IN THIS TABLE ***





Exterior ETo and Rainfall data

| COL | esign Pa | arameter | s | | | | | | | | | | |
|-----|-----------------------------------|---|--|--|---|---|---|--|---|--|--|--|------|
| | 1.1 | Area Ca | alculatio | ons (from | "Start Her | e Tab") | | | | | | | |
| | New Softs | cape (sf) | 730 | 0.00 | Water Fea | tures (sf) | 0. | 00 | - | Total areas | 700 | | WERS |
| E> | disting Softs | cape (sf) | 0. | 00 | meable Pa | ving (sf) | 0. | 00 | softso | ape, water | /30 | .00 | |
| | | | | | | | | | | | | | |
| | 1.2 | Potenti | al ETO i | n Inche | s per Mo | onth | | | Maxim | um Eto | 10. | 54 | |
| | | | Average Menthly Etc. 5.86 | | | | | | | | | | |
| | | | | | | | | Avera | age ivion | | (har neh | erence | |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| | 2.01 | 3.03 | 4.77 | 7.02 | 8.86 | 10.54 | 9.56 | 8.13 | 6.66 | 4.84 | 2.95 | 1.95 | |
| | | | | | | | | | | I | | | |
| | 1.3 | Water E | Baseline | by Mor | ith in Ga | llons ^{(ve} | rage Mo | nthly Bas | eline in (| Gallons | 266) (hac refi | 6.67 anaroza | |
| | JAN | FFR | MAR | APR | MAY | JUN | .00 | AUG | SEP | OCT | NOV | DEC | |
| | 912.78 | 1380.29 | 2168.68 | 3195.12 | 4032.08 | 4797.76 | 4351.65 | 3698.99 | 3032.52 | 2202.63 | 1341.88 | 885.64 | |
| | | | | | | | | | | | | | |
| | 1.4 | Water A | Allowand | e by Mo | onth in (| Gallons | | | | | | | |
| | Ν | ∕lax Base | line Perc | entage | 100. | .00% | ve. Mont | hly Allow | ance in (| Gallons | 266 | 6.67 | |
| | | | | 400 | | | | | 055 | 0.07 | /har neh | enence I.a | |
| | 912 78 | 1380-29 | 2168 68 | 3195 12 | MAY 4032.08 | JUN 4797 76 | JUL 4351.65 | AUG 3698.99 | 3032.52 | 2202 63 | NOV 1341.88 | 885.64 | |
| | 012.10 | 1000.20 | 2100.00 | 0100.12 | 4002.00 | 4101.10 | 4001.00 | 0000.00 | 0002.02 | 2202.00 | 1041.00 | 000.04 | |
| | 1.5 | Averag | e Rainfa | all in Inc | hes per | Month | Average | Monthly | Rainfall i | in Inches | 0. | 74 | |
| | | | | | | | | | | | (har reh | ananca 1 | |
| | | | | | | | | | | 007 | NOV/ | DEC | |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | NOV | DEC | |
| | JAN 0.41 | FEB | 0.41 | 0.45 | 0.61 | JUN 0.72 | JUL 1.46 | AUG 1.61 | SEP 1.20 | 0C1 0.81 | 0.32 | 0.47 | |
| | JAN 0.41 1.6 | FEB 0.44 Averag | MAR 0.41 e Peak A | APR 0.45 | | JUN 0.72 | JUL 1.46 RainfaAv | AUG 1.61 | SEP 1.20 Monthly | 0C1 0.81 Rainfall | 0.32 | 0.47 48 | |
| | JAN 0.41 1.6 | FEB 0.44 Averag | MAR 0.41 e Peak A | APR 0.45 | MAY 0.61 ABLE M | JUN 0.72 onthly F | JUL 1.46 RainfaAv | AUG 1.61 re. Peak | SEP 1.20 Monthly | 0C1 0.81 Rainfall | 0.32 | 0.47 48 arence | |
| | JAN 0.41 1.6 | FEB 0.44 Averag | MAR 0.41 e Peak A | APR 0.45 ALLOW/ Peak % | MAY 0.61 ABLE M 25. | O.72 Onthly F | JUL 1.46 Rainfal ^A v | AUG 1.61 re. Peak Peak ALL | SEP 1.20 Monthly OWABLE | 001 0.81 Rainfall (| 0.32 0.4 (for ref. | 0.47 48 arance 12 | |
| | JAN 0.41 1.6 | FEB 0.44 Averag MAX ALL | MAR 0.41 e Peak A | APR 0.45 ALLOW/ Peak % | MAY 0.61 ABLE M 25. | ON 0.72 | JUL 1.46 Rainfal ^A v Ave. P | AUG 161 re. Peak | SEP 1.20 Monthly OWABLE | OCT 0.81 Rainfall E MRF. | NOV 0.32 (for refi | 0.47 48 arence 12 arence | |
| | JAN 0.41 1.6 JAN | FEB 0.44 Averag MAX ALI FEB | MAR 0.41 e Peak A _OWED F | APR 0.45 ALLOW/ Peak % APR | MAY 0.61 ABLE M 25.1 MAY | JUN 0.72 onthly F 00% JUN | JUL 1.46 RainfaAv Ave. P JUL | AUG 1.61 re. Peak reak ALL AUG | SEP 1.20 Monthly OWABLE SEP | OCT 0.81 Rainfall E MRF. OCT | NOV 0.32 (for refi 0. (for refi NOV | 0.47 48 arance 12 arance two DEC 0.12 | |
| | JAN 0.41 1.6 JAN 0.10 | FEB 0.44 Averag MAX ALL FEB 0.11 | MAR 0.41 e Peak A _OWED F | APR 0.45 ALLOW/ Peak % APR 0.11 | MAY 0.61 ABLE M 25. MAY 0.15 | JUN 0.72 onthly F 00% JUN 0.18 | JUL 1.46 Rainfallv Ave. P JUL 0.37 | AUG 1.61 Peak ALL AUG 0.40 | SEP 1.20 Monthly OWABLE SEP 0.30 | OCT 0.81 Rainfall E MRF. OCT 0.20 | 0.32 0.4 (for refined (for refined NOV 0.08 | 0.47 48 evernce tz 12 evernce tub DEC 0.12 | |

Exterior Design Inputs

EU2 Proposed Design Analysis

(Please note - if using another third-party program for analysis, leave all items in this section as zero and proceed to line 2.2)

2.1 OPTION ONE: Landscape / Water Requirement



Use of the following pull-downs affects the "Average Peak ALLOWABLE Rainfall" percentage.

 N
 N

 Smart Controller present? (10%)
 N

Please complete the table below with the information that best describes the proposed outdoor design.

| Zone | Hydrozone / Area (sf) | Plant / Feature Type & Water Requirement | K∟ | Irrigation Type | DULQ | LWRн (G/M) average |
|---------------|--------------------------|--|--------|-----------------|------|-----------------------|
| 1 | 730.00 | Trees - Low | 0.2 | No Irrigation | 0.7 | 641.25 |
| 2 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 3 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 4 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 5 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 6 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 7 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 8 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 9 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 10 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 11 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 12 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 13 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 14 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| 15 | | <select feature="" plant="" type=""></select> | 0 | | 0 | 0.00 |
| Total Area | 730.00 | Landscape / Wa | 641.25 | | | |

All documentation for section 2.1 and installed items above have been verified. (Only to be used by the WERS

<select answer>

Start Here Indoor Use WERS Capture & Usage Exterior Use DESIGN Verification Summary

Exterior Design Summary

The professional responsible for any calculations must provide backup from any used third-party program along with evidence that they are certified to use the third-party program utilized for calculations. Additionally, drawings with plant lists should be provided along with any irrigation design drawings and irrigation component cutsheets if available.



| 2.4 | Water Use Reduction Summary (Sub-Total) | Project is using WERS for calculations |
|-----------------|---|--|
| | 2025 Average Reduction (gallons) | \$364.58 Average Cost Savings / Mont |
| | 76% Average Reduction (percent) | \$4,374.91 Average Cost Savings / Year |
| U3 Outdoor | Water Reuse | |
| ed to capture a | & usage tab | |
| 3.1 | Combined Available ave gal/ day 35.68 mo | nth 1070.31 ave gal/ year 12843.70 |
| 3.2 | Reuse Offset | ath without offset 641.25 |
| | | |
| | Landscape / water Requirement per Mor | ith with onset 0.00 |
| U4 Summar | y After Reuse Analysis | |
| 4.1 | Water Use Reduction Summary | Project is using WERS for calculations |
| | 3095.73 Average Reduction (gallons) | \$557.23 Average Cost Savings / Mont |
| | 100% Average Reduction (percent) | \$6,686.78 Average Cost Savings / Year |
| 4.2 | Project OUTDOOR WERS SUBTOTAL | |
| | 24 Without Reuse Offset | 9 With Reuse Offset |
| | NOT FINAL | NOT FINAL |
| N Ctart II | Todaar Haa WEDG | arian Use DECICN |
| | | enor ose DESIGN / Venication summary / |
| | | |

WERS Summary

| Builder | |
|---|---|
| Bob Kreger of Kreger Design Build | Report Date: 3/24/2015 |
| Verification | |
| Steve Onstad, Teri Buhl of Evergreen Buildi | This report is for: reliminary Analys |
| Project | |
| Pinonceros Rd Youngsville NM 87064 | «Please complete the information in the white bases. «Change bases are pulldowns that require a response. «Purple bases and grey bases need no action. «Calls with a small red triangle have additional guidance provided in a "Ny-out" bas. |
| WR1 SUMMARY | |

WERS REPORT

Indoor Use and Conservation Summary

| AVERAGE CONSERVATION | GALLONS PER YEAR: | 31,802.82 |
|-----------------------|-------------------|---------------|
| BASELINE VS. PROPOSED | SAVINGS PER YEAR: | \$5,724.51 |
| | _ | |
| AVERAGE CONSERVATION | GALLONS PER YEAR: | Not Appicable |
| EXISTING VS. PROPOSED | SAVINGS PER YEAR: | Not Appicable |

Outdoor Use and Conservation Summary

| AVERAGE CONSERVATION | GALLONS PER YEAR: | 24,305.05 |
|------------------------|-------------------|------------|
| ALLOWANCE VS. PROPOSED | SAVINGS PER YEAR: | \$4,374.91 |

Combined Use and Conservation Summary

| AVERAGE CONSERVATION | GALLONS PER YEAR: | 56,107.87 |
|-----------------------|-------------------|-------------|
| BASELINE VS. PROPOSED | SAVINGS PER YEAR: | \$10,099.42 |

WERS 35 NO OFFSETS NOT FINAL WITH OFFSETS 0

The WERS is based on the total water use requirements of the proposed design in comparison to an established baseline. For indoor, the baseline is the EPA Water Act of 1992 for the standard plumbing fixtures. For outdoor, the baseline is 25% of the peak average monthly rainfall deducted from the average monthly ETo for the project site as provided by the EPA.

🕨 🕨 🚾 Start Here 🛒 Indoor Use WERS 🔨 Capture & Usage 🧹 Exterior Use DESIGN 🛒 Verification Summary 📃 WERS REPORT

Next Steps

Continuing Development Partnerships



Continuing Development of the WERS



Pilot Projects



Develop Curricula



Train Raters



Partnerships and Manufacturer's Rebates



Questions

Contact Us for More Info

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Robert Kreger, AIA Green Builder® Coalition KregerDesignBuild@msn.com

Thank you!