

# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### AGATE BEACH

Current Supply Goal: Reduce total annual water production by 1% in 5 years.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Production goal met.** Reduced total annual production by 25% in 2 years (since 2011). Could look at further reducing production per ERU; reduced 13% per ERU from 2011 to 2013. **Consumption goal met.** Peak month production reduced by 54% per ERU from 2011 to 2013.

**Proposed Supply Goal:** Reduce total annual water production by 1% in 6 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### ALDERBROOK WATER COMPANY

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce golf course annual irrigation usage by 2% per annum over 6 years.

**Goals not met.** 3-year rolling average DSL is holding at 22%. Golf course irrigation holding at 20.9 million gallons annually. **Set new goals.**

**Proposed Supply Goals:** (1) Reduce DSL to 15% in 6 years, (2) 10% in 12 years.

**Proposed Consumption Goal:** Reduce residential peak month ADD by a minimum of 1% in 6 years.

### ARCADIA ESTATES

Current Supply Goals: (1) Reduce DSL to 25% in 6 years, (2) Reduce DSL to 15% in 12 years, (3) Reduce DSL to 10% in 18 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% in 6 years.

**Supply goal not met.** 3-year rolling average DSL decreased from 54% to 36% from 2009 to 2013. Several leaks have been repaired. **Consumption goal met.** Peak month ADD decreased by 28% from 2009 to 2013.

**Proposed Supply Goals:** (1) Reduce DSL to 25% in 6 years, (2) Reduce DSL to 15% in 12 years, (3) Reduce DSL to 10% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

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### BAY EAST

Current Consumption Goal: Reduce summer peak daily demand by 2% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL increased from 7.6% to 13.6% from 2011 to 2013 indicating a leak that has not been found. **Consumption goal not met.** Peak month ADD increased 15.8% from 2009 to 2013.

**Proposed Supply Goal:** Reduce DSL to 10% in 6 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### BAYSHORE

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL has decreased from 38.8% in 2010 to 29.9% in 2013. **Consumption goal met.** Source meter replaced in 2011. Unmetered yard hydrants were removed in 2012. Summer peak ADD decreased 7.2% per ERU in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to 20% in 6 years, (2) Reduce DSL to 10% in 12 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum 1% in 6 years.

### CANAL BEACH TRACTS MUTUAL

Current Consumption Goals: (1) Maintain historic ADD under 100 gpd/ERU through 2015, (2) Maintain historic peak month ADD under 160 gpd/ERU through 2015.

**Supply goal not met.** 3-year rolling average DSL increased from 14.8% in 2010 to 48.3% in 2013. Massive leak repaired in November 2013. **Consumption goals met.** ADD maintained under 80 gpd/ERU since 2008 and peak month ADD maintained under 130 gpd/ERU since 2008.

**Goals not required because system is TNC.**

## Mason County Public Utility District No. 1

### Water Use Efficiency Goals for 2014 Proposed

#### CANAL MUTUAL

Current Supply Goal: Reduce total annual water production by 1% per year for 5 years.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Production goal met.** Reduced total annual production by 20% in 5 years (since 2008). **Consumption goal met.** Reduced peak month production by 25.4% per ERU from 2009 to 2013.

**Proposed Supply Goal:** Reduce annual water production by 1% in 5 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum 1% in 6 years.

#### CANYONWOOD BEACH WATER SUPPLY

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goals: (1) Maintain historic ADD under 90 gpd/ERU through 2015, (2) Maintain historic peak month ADD under 160 gpd/ERU through 2015.

**Goals not met.** 3-year rolling average DSL decreased from 59.3% in 2010 to 55.9% in 2013. Source meter replaced in 2013 and full time service meters replaced in 2014. ADD maintained under 95 gpd/ERU since 2008. Peak month ADD maintained under 150 gpd/ERU from 2008 through 2012, in 2013, MMADD = 221 gpd/ERU.

**Proposed Supply Goals:** (1) Reduce DSL to 50% in 6 years, (2) Reduce DSL to 40% in 12 years, (3) Reduce DSL to 30% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

#### CHERRY PARK

Current Consumption Goal: Maintain historic usage less than 100 gpd/ERU for 2 years.

**Supply meets state standard.** 3-year rolling average DSL is under 10%. Source meter replaced in 2011. **Consumption goal not met.** Maintained peak month ADD under 350 gpd/ERU since 2007. Maintained ADD under 210 gpd/ERU since 2007. Usage data was corrected so historic data does not fit consumption goal adopted.

**No Supply goal needed.**

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

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## Water Use Efficiency Goals for 2014 Proposed

### CUSHMAN INC.

Annual well production has increased 24% since 2011. Peak month ADD has decreased 1.6% since 2011. System is not fully metered.

**Goals not required because system is TNC.**

### HARSTENE RETREAT

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak month ADD by 3% in 6 years.

**Supply goal not met.** 3-year rolling average DSL increased from 38% in 2009 to 50.9% in 2013. A large leak was found in November 2013. Monthly DSL has decreased from 50% to 25%. There are still leaks, but the largest was found. **Consumption goal met.** Peak month ADD decreased 26.1% in 4 years. Also, total well production has decreased 1% in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to 40% in 6 years, (2) Reduce DSL to 30% in 12 years, (3) Reduce DSL to 20% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### HIGHLAND ESTATES

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak month ADD by 2% in 6 years.

**Supply goals met.** 3-year rolling average DSL at or below 10% since 2011. **Consumption goal met.** Peak month consumption decreased 14.4% in 4 years.

**No Supply goal needed.**

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### HIGHLAND PARK

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce summer peak daily demand by 2% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL has increased from 12.2% in 2009 to 17.1% in 2013. This indicates additional leaks. **Consumption goal met.** Peak month consumption reduced by 19.3% in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to below 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### HOOD CANAL WATER COMPANY A

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak month daily demand by 3% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL has increased from 31.6% to 34.8% since 2010. DSL will change now that the system is consolidated with Hood Canal B. **Consumption goals not met.** Peak month consumption increased 39% in 4 years. Consumption goals to be re-evaluated now that meters are installed on Hood Canal B and systems are consolidated.

### HOOD CANAL WATER COMPANY B

Current Supply Goal: Reduce total annual water production by 1% by 2015.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Production goal met.** Reduced total annual production by 30% from 2009 to 2012. **Consumption goal met.** Peak month production reduced by 50% per ERU from 2009 to 2013. Consumption goals to be re-evaluated now that meters are installed and consolidated with Hood Canal A.

### HOOD CANAL WATER SYSTEM

Total annual production from both wells has decreased 32% since 2009.

**Proposed Supply Goals:** (1) Reduce DSL to 25% in 6 years, (2) Reduce DSL to 15% in 12 years, (3) Reduce DSL to 10% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### HOODSPORT

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce summer peak daily demand by 2% per ERU in 6 years.

**Supply goal not met.** 3-years rolling average DSL above 15%. **Consumption goal met.** Summer peak ADD decreased 11.2% in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### ISLAND HIDE-A-WAY

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce summer peak ADD by 2% in 6 years.

**Supply goal not met.** 3-year rolling average DSL under 10%. **Consumption goal met.** Summer peak ADD decreased by 28% in 3 years.

**Goal not required because system is TNC.**

### LAKE ARROWHEAD

Current Supply Goals: (1) Reduce DSL to 50% in 6 years, (2) Reduce DSL to 30% in 12 years, (3) Reduce DSL to 20% in 18 years.

Current Consumption Goals: (1) Maintain historic average daily demand for 2 years, (2) Maintain historic summer peak daily demand for 2 years.

**Supply goal not met.** 3-year rolling average DSL has increased from 56.5% in 2009 to 64.5% in 2013. Leaks continue to be repaired annually, but the entire distribution system needs to be replaced.  
**Consumption goal met.** Peak month ADD maintained at or below 95 gpd/ERU since 2007. Summer peak ADD has decreased 13.7% since 2009. ADD maintained below 60 gpd/ERU since 2006.

**Proposed Supply Goals:** (1) Reduce DSL to 50% in 6 years, (2) Reduce DSL to 40% in 12 years, (3) Reduce DSL to 30% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### LAKWOOD HEIGHTS

Current Supply Goal: (1) Reduce DSL to 10% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% per ERU in 6 years.

**First supply goal met.** 3-year rolling average just above 10%. **Consumption goal met.** Peak month consumption decreased 22% in 4 years.

**Proposed Supply Goal:** Reduce DSL to 10% in 6 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### MADRONA BEACH

**Supply does not meet state standard.** 3-year rolling DSL is 24.6%. Peak month ADD has decreased 0.9% since 2010.

**Goals not required because system is TNC.**

### MINERVA TERRACE

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL has increased from 33.4% in 2009 to 37.6% in 2013.  
**Consumption goal met.** Peak month consumption decreased 20% in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to 30% in 6 years, (2) Reduce DSL to 20% in 12 years, (3) Reduce DSL to 10% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

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## Water Use Efficiency Goals for 2014 Proposed

### PIRATE'S COVE COUNTRY CLUB

Current Supply Goal: Maintain DSL below 10%.

Current Consumption Goals: (1) Maintain historic ADD for 6 years, (2) Maintain historic summer peak daily demand for 6 years.

**Supply goal not met.** 3-year rolling average has increased from 8.7% in 2009 to 22.3% in 2013. Distribution system leaks have been found and repaired. Additional leaks have not been located.

**Consumption goals met.** Historic ADD maintained below 100 gpd/ERU since 2006. Historic peak month ADD maintained below 205 gpd/ERU since 2006.

**Proposed Supply Goals:** (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

**Proposed Consumption Goals:** (1) Maintain historic ADD below 100 gpd/ERU for through 2020, (2) Maintain historic peak month ADD below 205 gpd/ERU through 2020.

### TIGER LAKE TERRACE TRACTS

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce summer peak daily demand by 2% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average DSL has increased from 21.6% in 2011 to 40.3% in 2013. Leaks have not been found. **Consumption goal met.** Peak month ADD decreased 24.9% in 4 years.

**Proposed Supply Goal:** (1) Reduce DSL to 30% in 6 years, (2) Reduce DSL to 20% in 12 years, (3) Reduce DSL to 10% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### TWANOH HEIGHTS COMMUNITY CLUB

Current Supply Goal: Reduce total annual water production by 1% in 5 years.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Production goal met.** Reduced total annual production by 31% in 4 years (since 2009). **Consumption goal met.** Peak month production reduced by 35.9% per ERU since 2009.

**Proposed Supply Goal:** Reduce annual water production by 1% in 4 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.



# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### TWANOH TERRACE

Current Supply Goal: Reduce total annual water production by 1% in 5 years.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Production goal met.** Reduced total annual production by 5% from 2012 to 2013. **Consumption goal not yet met.** Consumption has decreased by 2 gpd/ERU from 2012 to 2013 (<1%/ERU).

**Proposed Supply Goal:** Reduce annual water production by 1% in 5 years.

**Proposed Consumption Goal:** Reduce peak month water ADD (based on well production until fully metered) by a minimum of 1% in 6 years.

### UNION

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% total in 6 years.

**Supply goal not met.** 3-year rolling average DSL reduced from 38.6% in 2009 to 34.2% in 2013.  
**Consumption goal met.** Summer peak ADD decreased 6.6% in 5 years.

**Proposed Supply Goals:** (1) Reduce DSL to 25% in 6 years, (2) Reduce DSL to 15% in 12 years, (3) Reduce DSL to 10% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### UNION RIDGE

Current Supply Goal: Reduce total annual water production by 1% in 5 years.

Current Consumption Goal: Reduce peak month production by 1% per year by 2015.

**Production goal met.** Reduced total annual production by 28% in 5 years (since 2008). System now fully metered as of 2011. 3-year rolling DSL reduced from 25.7% in 2012 to 21.6% in 2013. **Consumption goal met.** Peak month production reduced by 56% per ERU from 2009 to 2013.

**Proposed Supply Goals:** (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

# Mason County Public Utility District No. 1

## Water Use Efficiency Goals for 2014 Proposed

### VIEW RIDGE HEIGHTS

Current Supply Goals: (1) Reduce DSL to 15% in 6 years, (2) Reduce DSL to 10% in 12 years.

Current Consumption Goal: Reduce summer peak daily demand by 3% per ERU in 6 years.

**Supply goal not met.** 3-year rolling average has decreased from 51.9% in 2009 to 47.5% in 2013. Leaks have been repaired and valves replaced, but there are still several leaks that have not been located.

**Consumption goal met.** Peak month ADD has decreased 13.8% in 4 years.

**Proposed Supply Goals:** (1) Reduce DSL to 40% in 6 years, (2) Reduce DSL to 30% in 12 years, (3) Reduce DLS to 20% in 18 years.

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.

### VIEWCREST BEACH

Current Supply Goal: Reduce total annual water production by 1% per year for 5 years.

Current Consumption Goal: Reduce peak month production by 1% per ERU by 2015.

**Goals not met.** Total annual production increased 72% from 2011 to 2013. Peak month production increased by 42% from 2011 to 2013. System now fully metered as of 2013 so consumption goals can be set after 3 years (2016).

**Goals not required because system is TNC.**

### VUECREST

Current Supply Goal: Reduce DSL to 10% in 6 years.

Current Consumption Goal: Reduce summer peak daily demand by 2% per ERU in 6 years.

**Supply goal met.** 3-year rolling average DSL decreased from 14.1% in 2009 to 6.3% in 2013; has been under 10% for 4 years. **Consumption goal met.** Summer peak ADD decreased 19.4% in 4 years.

**No Supply goal needed.**

**Proposed Consumption Goal:** Reduce peak month ADD by a minimum of 1% in 6 years.