

## 3.1 Water

How to provide a dependable supply of high quality water in a way that maintains healthy aquatic environments and uses water efficiently.

### **Short Term (0-24 months) Preferred Future Initiative:**

Government and Public work together to reduce water usage.

#### **Priorities:**

##### A) Government Leadership

Strategies:

1. Town owned buildings should have low flow fixtures or have a plan to have them put in place in the near future.
2. Plan to review existing water meters.

##### B) Have incentives / Restrictions

Strategies:

1. Have incentives of approximately 10% off cost of rain barrel.
2. Have incentives of approximately 10% off cost for low flow fixtures.
3. Have an over-usage charge for excessive water usage.

##### C) Public Education and Willingness

Strategies:

1. Use public electronic bulletin boards to put the amount of water used on a monthly basis.
2. Use visuals to show examples of usage and how they reduce their water consumption and put them in the multi media avenues the Town of Sundre has.
3. Seminars with professionals to educate people of all ages on how to conserve water.

### **Medium Term (2-5 years) Preferred Future Initiative:**

Future Budget Allocations and grey water reclamation for car washes.

#### **Priorities:**

##### A) Money allocated to the water system for sustainable projects.

Strategies:

1. In budget, more money allocation to the water department for sustainable projects.

##### B) Grey Water Use in Car Washes

Strategies:

1. Research on how local car washes can use grey water and/or recycle systems.
2. Research possible incentives for local washes to use grey water and/or recycle systems.

## **Long Term (10+ years) Preferred Future Initiative:**

The Town of Sundre have dual water mains per street.

### **Priorities:**

A) Bylaw for new developments to have dual water mains per street.

Strategies:

1. Dual water mains in every new development (one for treated water and one for untreated water )
2. Replacing existing water mains with dual mains within the Town.
3. Place dual mains east side of Town.

B) Water on the East Side

Strategies:

1. Water on the East Side

## PRIORITIZATION MATRIX

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| <b>Strategy Area:</b> Water  |
| <b>Preferred Future Initiative:</b> Government & Public work together to reduce water usage. |
| <b>Short Term</b> / Medium Term / Long Term (circle the appropriate term)                    |

Does this initiative:

1. move us towards our community's preferred future initiative?
2. move us towards the sustainability principles?
3. provide flexibility for future community leaders to take action?
4. generate sufficient economic and potential return to seed future investments?

| Idea                             | # 1      | # 2      | # 3      | # 4      |
|----------------------------------|----------|----------|----------|----------|
| Public Education and Willingness | Yes / No | Yes / No | Yes / No | Yes / No |
| Have incentives & Restrictions   | Yes / No | Yes / No | Yes / No | Yes / No |
| Government Leadership / Planning | Yes / No | Yes / No | Yes / No | Yes / No |

**Reference Material:**

### The Natural Step Principles

- 1:** We dig stuff up (like heavy metals and fossil fuels) out of the Earth's crust and allow it to build up faster than nature can cope with it.
- 2:** We create man-made compounds and chemicals (like pesticides and plastics etc.) and allow them to build up faster than nature can cope with them.
- 3:** We continuously damage natural systems and the free services they provide (including climate regulation and water filtration) by physical means (for example over harvesting and paving wetlands).
- and..**
- 4:** We live in and create societies in which many people cannot meet their basic needs (for example, to find affordable housing).

### 5 Dimensions of a Sustainable Community

- 1:** A Healthy Environment
- 2:** A Strong Economy
- 3:** A Vibrant Cultural Scene
- 4:** Good Governance
- 5:** A Strong Social Network

Town of Sundre MSP Process

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| <b>Water</b> | How to provide a dependable supply of high quality water in a way that maintains healthy aquatic environments and uses water efficiently |
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**PREFERRED FUTURE INITIATIVE:** Government & Public work together to reduce water usage.

| Issues and Obstacles<br>(Short Term)     | Assets and Opportunities   | Measure of Success   | Action Steps Within Next 0-24 months   | Who is responsible for ensuring the action is carried out (see list at the end of document) |
|--|--|--|--|---|
| A) Government Leadership / Understanding | A1) Town owned buildings should have low flow fixtures or have a plan to have them put in place.                     | A1) All town owned buildings will have low flow fixtures & reduce water usage. | A1) Set plan and put in budget.  | A1)Town of Sundre   |
|  | A2) Plan to renew existing water meters  | A2) New water meters that will give an accurate reading.                       | A2) Make Policy  | A2) Town of Sundre  |
| B) Have incentives / Restrictions        | B1) Have incentive of approximately 10% off cost of rain barrel  | B1) More rain barrels in use.<br>Decrease in water consumption.                | B1) Policy written & passed. (Must obtain receipt from store for incentive)  | B1) Town of Sundre  |
|  | B2) Have incentive of approximately 10% off cost for low flow fixtures and research what to do with the old toilets. | B2) More low flow fixtures in use.<br>Decrease in water consumption.           | B2) Policy written & passed. (Must obtain receipt from store for incentive)  | B2) Town of Sundre  |
|  | B3) Have a over-usage charge for excessive water usage   | B3) No overuse charges.<br>Decrease in water consumption per capita.           | B3) Policy written & passed. (Must find the high average and use that as a baseline and come up with over usage fee) | B2) Town of Sundre  |

Town of Sundre MSP Process

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|--|---|---|--|--|
| <p>C) Public Education &amp; Willingness</p> | <p>C1) Use public electronic bulletin boards to put the amount of water used on a monthly basis.</p> <p>C2) Use visuals to show examples of usage and how they reduce their water consumption and put them in the multi media avenues the Town of Sundre has (ie: what to do with excess rain water caught in rain barrels, can water that is collected by sold to the oil companies, what could be done with collected water from municipal buildings (Community Centre, Town Office etc.))</p> <p>C3) Seminars with professionals to educated people of all ages on how to consume water.</p> | <p>C1) People would be more aware of Sundre's water usage and therefore reducing usage.</p> <p>C2) People would be more aware of their water usage and therefore reducing usage.</p> <p>C3) People would be more aware of their water usage and therefore reducing usage.</p> | <p>C1) Get permission to use the bulletin boards<br/>See if we can get monthly stats.</p> <p>C2) Obtain stats and examples of usage and how to reduce usage<br/>Put on multi media.</p> <p>C3) Find funding for a professional to come out<br/>Obtain a professional<br/>Obtain a site for a seminar<br/>Advertise for the seminar</p> | <p>C1) Town of Sundre Rodeo Association</p> <p>C2) Town of Sundre Watershed Alliance<br/>Climate Change Central</p> <p>C3) Town of Sundre Olds College</p> |
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## PRIORITIZATION MATRIX

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|---|
| <b>Strategy Area:</b> Water   |
| <b>Preferred Future Initiative:</b> Future Budget Allocations and grey water reclamation for car washes |
| Short Term / <b>Medium Term</b> / Long Term (circle the appropriate term)                               |

Does this initiative:

1. move us towards our community's preferred future initiative?
2. move us towards the sustainability principles?
3. provide flexibility for future community leaders to take action?
4. generate sufficient economic and potential return to seed future investments?

| Idea  | # 1      | # 2      | # 3      | # 4      |
|---|----------|----------|----------|----------|
| Money allocation & manpower to the water system | Yes / No | Yes / No | Yes / No | Yes / No |
| Grey Water Use of Car Washes                    | Yes / No | Yes / No | Yes / No | Yes / No |

### Reference Material:

#### The Natural Step Principles

- 1:** We dig stuff up (like heavy metals and fossil fuels) out of the Earth's crust and allow it to build up faster than nature can cope with it.
- 2:** We create man-made compounds and chemicals (like pesticides and plastics etc.) and allow them to build up faster than nature can cope with them.
- 3:** We continuously damage natural systems and the free services they provide (including climate regulation and water filtration) by physical means (for example over harvesting and paving wetlands).  
**and..**
- 4:** We live in and create societies in which many people cannot meet their basic needs (for example, to find affordable housing).

#### 5 Dimensions of a Sustainable Community

- 1:** A Healthy Environment
- 2:** A Strong Economy
- 3:** A Vibrant Cultural Scene
- 4:** Good Governance
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Town of Sundre MSP Process

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|--------------|--|
| <b>Water</b> | How to provide a dependable supply of high quality water in a way that maintains healthy aquatic environments and uses water efficiently |
|--------------|--|

| <b>PREFERRED FUTURE INITIATIVE:</b> Future budget allocations and grey water reclamation for car washes. |   |   |   |  |
|--|---|---|---|--|
| <b>Issues and Obstacles</b><br><br>(Medium Term)   | <b>Assets and Opportunities</b>   | <b>Measure of Success</b>   | <b>Action Steps Within Next 2-5 years</b>   | <b>Who is responsible for ensuring the action is carried out (see list at the end of document)</b> |
| A) Money allocated to the water system for sustainable projects.   | A1) In Budget, more money allocated to the water department for projects.                       | A1) Projects (water mains replaced) are being completed in a timely fashion.  | A1) Budget Process (show which projects are priorities)<br><br>Ensure trained staff     | A1) Town of Sundre – Public Works Department   |
|  | A2) Research for sources for untreated water.   | A2) Sources for untreated water to serve the dual water mains.  | A2) Research and investigate sources for untreated water to serve the dual water mains. | A2) Town of Sundre – Public Works Department   |
| B) Grey water use or recycle systems for car washes  | B1) Research on how local car washes can use grey water and/or recycle systems.                 | B1) No treated water going through the car washes.<br>Less water fees for car washes.<br>Local car washes will be a sustainable model for all car washes. | B1) Research on how to use grey water and/or recycle systems for local car washes.      | B1) Town of Sundre – Public Works<br>Local Car Washes  |
|  | B2) Research possible incentives for local car washes to use grey water and/or recycle systems. | B2) Car washes would have incentives to go to grey water and/or recycle systems.<br>Government leadership would show sustainable thinking.                | B2) Incentives in place for local car washes to use grey water and/or recycle systems.  | B2) Town of Sundre – Public Works  |

## PRIORITIZATION MATRIX

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| <b>Strategy Area:</b> Water  |
| <b>Preferred Future Initiative:</b> Water and dual water mains available for all properties within the corporate limits of the Town of Sundre. |
| Short Term / Medium Term / <b>Long Term</b> (circle the appropriate term)  |

Does this initiative:

1. move us towards our community's preferred future initiative?
2. move us towards the sustainability principles?
3. provide flexibility for future community leaders to take action?
4. generate sufficient economic and potential return to seed future investments?

| Idea  | # 1             | # 2             | # 3             | # 4             |
|---|-----------------|-----------------|-----------------|-----------------|
| Bylaw for new developments to have dual water mains per street. | <b>Yes</b> / No | <b>Yes</b> / No | <b>Yes</b> / No | <b>Yes</b> / No |
| Water on the East Side  | <b>Yes</b> / No | <b>Yes</b> / No | <b>Yes</b> / No | <b>Yes</b> / No |

### Reference Material:

#### The Natural Step Principles

- 1:** We dig stuff up (like heavy metals and fossil fuels) out of the Earth's crust and allow it to build up faster than nature can cope with it.
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**and..**
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#### 5 Dimensions of a Sustainable Community

- 1:** A Healthy **Environment**
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Town of Sundre MSP Process

|              |  |
|--------------|--|
| <b>Water</b> | How to provide a dependable supply of high quality water in a way that maintains healthy aquatic environments and uses water efficiently |
|--------------|--|

**PREFERRED FUTURE INITIATIVE:** Water and Dual water mains available for all properties within the corporate limits of the Town of Sundre.

| <b>Issues and Obstacles</b><br>(Long Term)              | <b>Assets and Opportunities</b>  | <b>Measure of Success</b>  | <b>Action Steps Within Next 10 + years</b>   | <b>Who is responsible for ensuring the action is carried out (see list at the end of document)</b>                        |
|---|--|--|--|---|
| A) The Town of Sundre have dual water mains per street. | <p>A1) Dual water mains in every new development (one for treated water and one for untreated water)</p> <p>A2) Replacing existing water mains with dual mains within the town.</p> <p>A3) Place dual mains east side of town.</p> | <p>A1) New developments would have it to tie into system when it is ready.<br/>Households usage would be below the Canadian average.</p> <p>A2) Be able to tie into new development with dual mains.</p> <p>A3) Be able to tie into new development with dual mains.</p> | <p>A1)Bylaw in place.</p> <p>A2) Funding</p> <p>A3) Funding</p>  | <p>A1)Town of Sundre – Public Works</p> <p>A2) Town of Sundre – Public Works</p> <p>A3) Town of Sundre – Public Works</p> |
| B) Ensure water lines are on the East side of Sundre.   | B1) Ensure water lines are on the East side of Sundre.   | B1) Town treated water on the east side.   | <p>B1) Work with appropriate departments to ensure that water is brought to the east side.</p> <p>Research for possible grants to assist residents on the east side.</p> | B1) Town of Sundre – Public Works & Administration  |