2019 ENVIRONMENTAL PROGRAM UPDATE







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In 2016 Wheatland County recognized the necessity of meeting increasing environmental challenges in a way that best suits Wheatland County ratepayers, responding with the development of its Environmental Program. Wheatland County is pleased to present this 2019 Environmental Program Update as our third annual summary of environmentally-beneficial activities undertaken at the municipality since the program began. Taken together, these annual program updates paint a picture of Wheatland County's commitment to the environment.

FIVE KEY FOCUS AREAS

OF WHEATLAND COUNTY'S ENVIRONMENTAL PROGRAM

Our Environmental Program focus areas guide administrative activity with a goal to continually improve county operations and promote environmental stewardship, in alignment with Wheatland County's Environmental Policy



OPERATIONAL ENVIRONMENTAL COMPLIANCE

STRATEGY

Ensure that all aspects of county operations comply with, and exceed where possible, applicable environmental legislation.



ACTIVITY EXAMPLES

- Performing environmental audits
- Correcting audit findings
- Identifying risks and opportunities for improvement
- Applying for government authorizations

ENVIRONMENTAL COMMUNICATIONS

STRATEGY

Incorporate environmental communications into general Wheatland County communications to raise awareness about environmental initiatives and current issues, topics, and events, and to promote achievements and programs.



ACTIVITY EXAMPLES

- Continual update of the County website
- Annual Environmental Program publication
- Contributions to local media
- Reporting to Council and the Agricultural Service Board
- Development and use of communications materials





ENVIRONMENTAL EDUCATION

STRATEGY

Educate staff, council and the public on matters of local and regional environmental importance to increase community knowledge of relevant environmental topics and issues.



ACTIVITY EXAMPLES

- Coordination of extension opportunities (public workshops, internal training)
- Development of extension materials (publications, articles)
- Collaboration with external organizations for educational opportunities

TECHNICAL SUPPORT

STRATEGY

Provide a source of local or internal information and support for staff and the public on matters related to the environment.



- Respond to inquiries from staff and the public
- Act as a liaison for external environmental agencies
- Policy analysis and advocacy
- Maintenance of relationships with staff, external agencies, and residents

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ADVANCING ENVIRONMENTAL SUSTAINABILITY

STRATEGY

Support, maintain, improve and coordinate programs, activities and partnerships that act to advance environmental sustainability locally or regionally and benefit Wheatland County and its residents.

ACTIVITY EXAMPLES

- Explore opportunities for additional programming of benefit to Wheatland County
- Maintain partnerships with stewardship groups and contribute to initiatives where possible
- Pursue internal stewardship projects
- Maintain, monitor, and continually improve environmentally beneficial County programs



TRANSPORTATION PROGRAMS: EROSION AND SEDIMENT CONTROL SHOWCASE

Soil management emerged as a topic of focus for Wheatland County in 2018 and 2019. The spring of 2018 brought significant runoff flooding to our region, highlighting areas of erosion risk. Wheatland County had completed several projects during the 2017 construction season that had not been protected to the extent necessary to endure the flooding experienced in the spring. This flooding incident and resulting damage motivated the County to improve. Our culvert, surfacing, and road construction teams all undertake activities involving erosion and sediment risk and take great care in their work, here's what they accomplished:

EROSION AND SEDIMENT CONTROL EDUCATION

To increase internal capacity to identify and address erosion and sediment risks, nine staff members attended erosion and sediment control training in the spring of 2019. Training covered the regulations surrounding erosion and sediment control, causes of erosion, methods of preventing damage, and included hands-on field training in the installation of control materials. Training helped staff to better evaluate projects completed in 2019 and recommend control measures, properly install materials, analyze erosion and sediment control plans, and monitor and inspect erosion control efforts to ensure maximum effectiveness.



Staff are collaborating with our engineering consultants to ensure that erosion and sediment controls are proactively planned and designed into our projects to ensure, especially where risks are the highest, that damage to our completed projects is avoided.

INCREASED EROSION AND SEDIMENT CONTROL EFFORTS

Wheatland County increased the amount of erosion and sediment controls in 2019 to better protect against erosive damages to our construction projects. Erosion and sediment controls include: increased use of sediment fencing and erosion matting, strategic use of sediment curtains in open water, and seeding soon after project completion to quickly establish vegetative cover. Post-construction monitoring of sites increased, and significant impacts experienced during 2018 spring flooding were corrected. As an additional benefit, in 2019 Wheatland County began to use biodegradable erosion control products to further reduce our environmental impact.









WHAT ARE EROSION AND SEDIMENT?

Construction results in modifications to the landscape that include the removal of soil-stabilizing vegetation. Where water moves, vegetation removal and soil disturbance contribute to undesirable impacts to environmental resources and damage to construction projects.

Erosion occurs when impacts of wind or water cause soil particles to detach and move to another location. Sediment describes the soil particles that are detached; they often end up accumulating on land or in water.

WHY IS EROSION AND SEDIMENT CONTROL IMPORTANT?

Erosion and sediment accumulation can cause undesirable environmental impacts including:

- the disturbance of fisheries habitat and impairment of fish spawning, feeding, and movement
- the alteration of stream shape and degradation of water quality
- the contamination of water from increased nutrients or contaminants found in the soil
- changes to the type and quality of habitat available to wildlife

The Federal and Provincial governments both have legislation in place to protect against these types of impacts.

Other undesirable consequences of erosion and sediment include:

- cost of rehabilitating affected habitat or compensating for losses
- costs of site clean-up and mitigation for on and off-site areas impacted
- cost of repairs to the project when structures are damaged
- increase of site maintenance and repair costs during and after construction

Through erosion and sediment control activities, Wheatland County proactively prevents these costs from impacting our operations.





That bird and wildlife sweeps are required before we make vegetation-altering changes to the land?

Ducks, hawks, songbirds, owls, grouse, fish, foxes and frogs are all wildlife that may utilize habitat found in areas that we must impact in order to replace bridges, install culverts, or rebuild roads.

Legislation governs destructive impacts to certain wildlife species and their habitats

Before moving vegetation that may be home to a protected species, we must ensure that protected habitat and animals will not be harmed. To do this we hire a biologist to perform a "sweep" of the area. If species are found, Wheatland County follows the advice of the biologist in order to meet our obligations under provincial and federal legislation.

COORDINATING ENVIRONMENTAL REQUIREMENTS: NAVIGATING CHALLENGES

Navigating the environmental legislative requirements and changing federal and provincial regulatory processes in a way that supports intended construction timelines is an ongoing challenge. Environmental authorizations have the potential to cause substantial delays and impacts to our construction projects. Although unforeseen impacts will inevitably continue, Wheatland County has been working hard to streamline our project activities. Current requirements are incorporated into consistent timelines that work, so that projects have a maximum chance of being completed according to initial plans. Through collaborative efforts with our engineering consultants, we have entered some of our programs into project management software that has the ability to better track and manage all aspects of our complex projects. This software has allowed us to better see and identify aspects of our projects that hold higher risk of delay, so that we can find ways to improve. It has also allowed us to better recognize and address all areas of environmental impact associated with our projects.



<- Burrowing Owls are a small owl found on the prairies. They are protected as endangered species under the Alberta Wildlife Act and Federal Species at Risk Act.

Loggerhead Shrikes -> are a predatory bird found in Wheatland County.They are protected as endangered under the Federal Species at Risk Act.



WHEATLAND ALUS PROGRAM ACCOMPLISHMENTS

Alternative Land Use Services (ALUS) Canada is a national charitable organization with a goal to create a healthy landscape that sustains agriculture, wildlife and natural spaces for all Canadians. The ALUS program helps farmers produce valuable ecological services on Canadian farmland by providing funding for beneficial management and environment-enhancing projects. 2019 was Wheatland County's first full year contributing to this cause as an ALUS community. Our involvement with the program allows us to work with our farmers to enhance lands in return for per-acre payments. This partnership with ALUS means that we can access national funding sources on behalf of our landowners.



A Weston Family Initiative

 2 Partnership Advisory Committee Meetings held for funding decision making

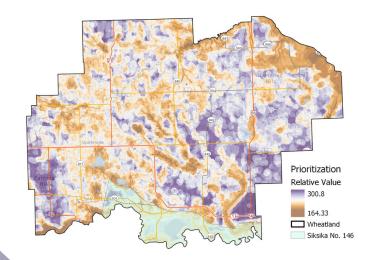
• 4 Projects Approved for revegetation and installation of offsite water systems and riparian fencing

108 Acres Enhanced for provision of ecological services

 \$16,626 Secured and distributed to help Wheatland County producers contribute to agrienvironmental sustainability

CONSERVATION PROGRAM PRIORITY MAPPING

Through the ALUS program Wheatland County and the ALUS Partnership Advisory Committee partnered with Alberta Agriculture and Forestry to create a project prioritization map. The map accounts for areas of environmental sensitivity in Wheatland County as well as other positive and negative project influences to offer a tool that can be used to prioritize projects based on their relative value for the provision of ecological services.







In 2019 Wheatland County helped 22 landowners to complete **Environmental Farm Plans and 29** landowners to apply for Canadian Agriculture Partnership Funding.





COUNTY WATER QUALITY FUNDING

In 2019 Wheatland County divided its Water Protection Initiative funding program into two separate programs: the Safe Water Well Action Program and the Wheatland Agricultural Stewardship Program. Each program has a committed \$15,000 for distribution to landowners for projects that protect groundwater and surface water. Since surface water projects are eligible to also take part in the ALUS program, this divide helps ensure that funds remain dedicated to groundwater protection while demonstrating the County's commitment to funding establishment costs for ALUS-eligible projects.



2011 - 2019

- 85 Water Quality Projects Funded
- \$188,775 extended to Wheatland County landowners to assist with the protection of water quality

Project Types

- Well Abandonment
- Pitless Adaptor Conversion
- Riparian Fencing
- Offsite Watering Systems for Livestock

CROWFOOT CREEK WATERSHED RESILIENCY AND RESTORATION PROGRAM

In partnership with the Western Irrigation District, Wheatland County received \$198,500 from Alberta Environment and Parks' Watershed Resiliency and Restoration Program (WRRP) for distribution in the Crowfoot Creek Watershed to producers to install off-site watering systems and riparian fencing. The program ran from 2018 to end in March 2020 with possibility of extension.

- 9 Projects Completed
- 9 Offsite Watering Systems Installed
- 1895 m of Riparian Fence Installed
- 21,670 m of riparian lands protected
- 8250 m of canals fenced by WID
- 11 riparian health assessments completed

ROSEBUD RIVER WATERSHED RESILIENCY AND RESTORATION PROGRAM

Wheatland County, in partnership with Rocky View County, applied for funding from Alberta Environment and Parks' WRRP Program for distribution in the Rosebud River Watershed. We are pleased to report that we were successful in our application and received commitment from the Province for \$186,400 to extend to landowners for the installation of off-site watering systems and riparian fencing. The project will commence in 2020 and continue until March 31, 2022.

WORKSHOPS FOR LANDOWNERS AND PRODUCERS

Wheatland County hosted or partnered to host 6 workshops targeting a rural landowner or agricultural producer audience in 2019. These included:

- **Ladies Livestock Lessons**
- **Ranching Opportunities**
- **Solar and Agriculture**
- Fencing & Grazing 101
- Get the Dirt on Soil Health
- Winter Feed and Water
- Farmer Pesticide Applicator

POLICY PROTECTION FOR AREAS OF SOIL RISK

The Agriculture and Environment department occasionally fields questions about soil movement within the County. It is suspected that as high rates of development occur west of our County, excess soil is being offered to landowners, who may receive payment for accepting soil on agricultural land. This movement of soil into Wheatland County poses an agricultural and environmental risk. In 2019 the department secured the Agricultural Service Board and Council's support to work towards oversight of soil movement using policy options. Some of our neighbouring municipalities have already implemented solutions for this issue, offering insight into feasible policy options. In 2020, this work will be pursued by Wheatland County's Planning and Development Department with support from Agriculture and Environment, due to possible changes required within Wheatland County's Land Use Bylaw. Stay tuned for opportunities for feedback and updates about this project.

RISK AREAS

Clubroot Management

Clubroot has been discovered in four neighbouring municipalities. It is a soil-borne disease spread through the movement of soil infested with resting spores.

Weed Control

Infestations cause economic and invasive losses that affect our agricultural community. Depending on the weed brought in and severity of infestation, it can be very difficult to eradicate a problem.

Soil Quality

Contamination and degradation of topsoil quality can occur if a landowner unknowingly accepts poor quality material.

Wetlands and Drainage

Landowners often bring in fill material and/or topsoil to fill in low areas and improve land contours for agriculture. Since the goal is to reduce flooding of land, this can result in impacts to drainage patterns in areas and infilling of wetlands.





ENVIRONMENTAL AUDIT: SUMMARY OF SUCCESSES

In 2018, a third-party auditor was hired to complete an Environmental Audit of Wheatland County operations. Wheatland County chose to undertake this initiative to proactively identify areas where improvements needed to be made, to be accountable for our impacts, and to recognize and mitigate environmental risks. A report was received in August 2018 outlining areas for improvement, and throughout 2019, Wheatland County staff endeavoured to address and correct the findings. Here are some of the successes resulting from the Environmental Audit:

- Wheatland County has an internal employee trained as a Transportation of Dangerous Goods (TDG) Instructor in order to ensure that all necessary employees would receive up-to-date TDG training.
- Nest and habitat sweeps for prevention of wildlife impacts prior to construction activities, and better erosion and sediment control efforts, as described in a previous section of this publication, were both positive initiatives that came to life following the 2018 Audit Report.
- A dugout at our main operations centre was identified as having potentially negative groundwater interactions. Signs were purchased and installed around the dugout to remind staff to avoid activities that may impact water quality, and operations were modified to reduce activities occurring near the dugout. The water was tested to establish a benchmark for comparison and confirm that water had not already been contaminated.





- A number of small reporting and administrative deficiencies were researched and corrected in the areas of municipal utilities and waste management.
- Steel containers with steel lids were purchased for all County facilities that generate oily rags and make use of absorbent spill materials for clean-up. These containers prevent spills, reduce the risk of fire, and meet our obligation to keep hazardous waste separate from regular waste.
- More spill kits were added in many operational areas, primarily near fuel tanks and in areas where chemicals are used, in order to ensure that spills of greater size could be effectively handled on sites. Mobile spill kits were added to all equipment hauling liquid materials that could cause environmental contamination.

Quarterly Progress Reports were provided to Council in April, July, and October 2019, and a final report was delivered to Council at our January 14, 2020 Council meeting. If you are interested in learning more about our Environmental Audit, all reports are available by contacting Wheatland County's Agriculture and Environment Department.







PROMOTING TREE AND SHRUB PLANTING

TREE POLICY AND PLANTING

At the end of 2018, Wheatland County adopted a Public Tree Policy. The Policy provides a framework for the management of trees on County property and in hamlet communities with the intent of planting new trees, monitor their condition, replace trees where necessary, and seek alternatives to the removal of trees that conflict with infrastructure and development projects. Wheatland County adopted this Policy with the understanding that a reduction in the number of trees within the County has impacts on environmental and aesthetic benefits, health and wellbeing of citizens, health and availability of habitat for birds and wildlife, and the aesthetic value of County properties.



NEW BENCHES INSTALLED AT THE GLEICHEN CEMETERY ARE MADE FROM RECYCLABLE MATERIALS



COMING IN 2020 – SHELTERBELT AND ECOBUFFER EDUCATION AND FUNDING

In 2019 Wheatland County developed a shelterbelt and ecobuffer seedling funding program to offer support for landowners to plant trees and shrubs throughout the municipality. This was done in recognition of the benefits of planting trees and shrubs, including their ability to:

- **increase energy efficiency** by buffering the impacts of weather on homes and farm buildings
- **add aesthetic value** to the community and beautification of the prairie landscape
- provide habitat for wildlife and pollinators
- **decrease soil erosion and crop damage** from extreme winds
- reduce standing water through plant root use
- **capture snow** to prevent drifting and improve moisture retention

A workshop in early 2020 will help landowners learn how to design effective shelterbelts and ecobuffers and properly plant and care for seedlings, funding will be available for landowners to assist with establishment of planting systems on a first-come first-serve basis while budget is available.







Our Agriculture and Environment department demonstrated grain-bag rolling at the 2019 AgSmart event in Olds

WHEATLAND COUNTY RECYCLES

GRAIN BAG PROGRAM

Wheatland County's Grain Bag Rolling Program has been in place since 2015. Department staff attend farms to clean, roll, and collect plastic grain bags to keep them from landfills and prevent them from being buried or burned. The plastic grain bags are taken to a local recycler who processes the material so that it can repurposed, to become items like garbage bags.

1600 GRAIN BAGS WERE HAULED TO BE RECYCLED BETWEEN 2015 - 2019

That's equivalent to 2 blue whales!







Unrolled and placed end-to-

end, that's **100 KM** of plastic

The total weight of this recycled plastic is **310 tonnes**

In 2019 CleanFarms announced a new Alberta Ag Plastics: Recycle It! Pilot Program. Cleanfarms received funding to pilot a grain bag recycling program in Alberta under which farmers would be able to drop grain bags off at select locations, and Cleanfarms would then pick bags up and organize the recycling component. The program was a natural fit for Wheatland County's existing grain bag program, so we agreed to become a collection site. As of 2019 we will not only be continuing to offer our collection service for ratepayers but will be able to receive recyclable grain bags from outside of the municipality as a contribution to the Alberta Ag Plastics: Recycle It! Pilot Program.

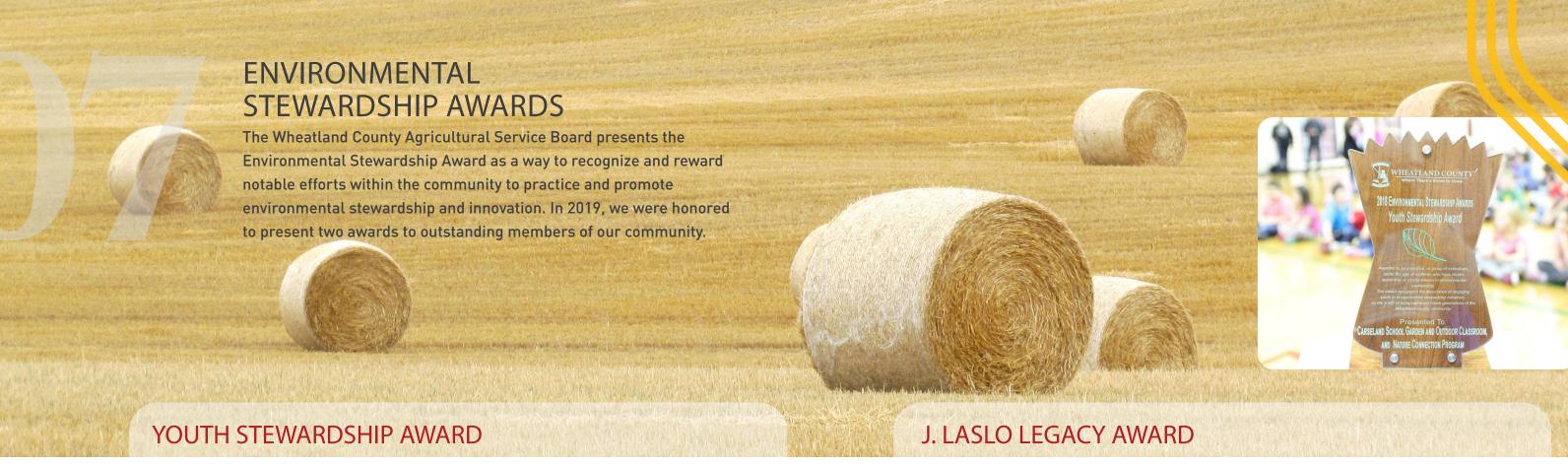
BEVERAGE CONTAINER RECYCLING

In 2019, Wheatland County received an Alberta Beverage Container Recycling Corporation Grant to install recycling receptacles in Rosebud, Cheadle, Carseland, Speargrass, and at Severn Dam.

- **7** Outdoor Garbage and Recycling Bins were installed
- **700** Cans and Bottles were collected between July and October 2019

This project increases the amount of waste diverted from landfills. We look forward to reporting the long-term positive impacts of this project, and will be on the lookout for more locations that could use bins!





The Youth Stewardship Award aims to recognize the importance of engaging youth in environmentally beneficial initiatives, as the youth of today represent future generations of the Wheatland County community. We are proud to acknowledge the achievements and involvement of our youngest community members, as they inspire us to lead by example and sustain the environment for their benefit.

Carseland School's Garden and Outdoor Classroom and Nature Connection Program are creating a culture of wellness for the school and community while connecting students to the natural environment. A recent addition, the "Park Partnership Program" will see students visiting Wyndham-Carseland Provincial Park once a month to better connect with nature. Through its programs, Carseland School shows commitment to fostering learning about ecological stewardship, sustainability, and healthy living principles. They've offered students an opportunity to take part in building garden boxes, gaining community support for the program, caring for the garden, making use of the outdoor classroom space, and visiting the Bow River valley to learn about nature. This type of initiative is cultivating a generation of leaders in our community, and we look forward to watching the programs grow.





The J. Laslo Legacy Award is named in honor of the retirement of long-term Wheatland County employee Jim Laslo. During his career, Jim was the Agricultural Fieldman, and then General Manager of Agriculture, Community, and Protective Services. Jim's passion for education and outreach about agricultural conservation initiatives, and dedication to harnessing the innovation of the agricultural community, lead to the uptake of sustainable agriculture practices throughout the municipality.

The J. Laslo Legacy Award is awarded to an agricultural producer in Wheatland County that has shown exemplary leadership in the implementation of beneficial management practices on their farm. The winner will have shown dedication to reducing the environmental impacts of their operation and has an interest in promoting lessons from their efforts to others in the industry.

In Memory of Craig Kaiser, 1969 - 2019

Kooter and Craig Kaiser manage a cow/calf operation north of Hussar. They were nominated for the award for their commitment to conserving environmentally sensitive areas on their land, and leadership in using conservation as a land management tool. In the words of their nomination, "Craig and Kooter understand the environmental benefits for their operation when conservation programs are used and have taken land stewardship to the next level, allowing them to be productive while running their operation in a positive way. It is clear that carefully managing the native and tame grasslands and wetlands that cover much of their land is a top priority." This is further demonstrated by their strong involvement in agricultural conservation programs offered through Wheatland County, as noted by our Agricultural Services staff who have had the pleasure of working with the pair on many occasions.

WHEATLAND'S ATTENTION TO WATER

WATER DAY PROMOTION TO PUBLIC AND STAFF

In 2019, Wheatland County celebrated Canada Water Week (March 18-22) and World Water Day (March 22) by setting up an informational booth in the lobby of the administration office. Agriculture and Environment staff greeted and discussed water with visitors, handing out "swag" items and fun stickers as a reminder to care for Wheatland County's water sources!

The same booth was set up for staff to view at our annual safety day training event, and areas of our operations that use, influence, and care for water resources were highlighted.







The design of the sticker we handed out in honor of World Water Day

WATER WELL TESTING PROMOTION

In the latter part of 2018 and throughout 2019, Wheatland County partnered with Alberta Health Services to encourage landowners to have their well water tested. Wheatland County promoted well water testing on social media alongside sampling instructions and had sampling bottles available for pick up at our administration office.



Bottles used for Well Water Testing

A booth showcasing Wheatland County's Environmental Program was set up at our 2019 Annual General Meeting



WATER REBATE PROGRAM

Wheatland County continues to offer a rebate for residential homeowners who replace water fixtures with more efficient models. Ratepayers are eligible for up to \$60 per fixture, to a maximum of \$180 per household, for replacing old fixtures with: certified high-efficiency, low-flow toilets; certified low-flow faucets and shower heads; and Energy Star certified washing machines.



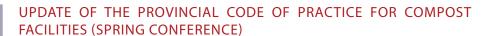
DID YOU KNOW?

That licensing is required from Alberta Environment and Parks for use of water for commercial purposes, even if the use is temporary?

In 2019 Wheatland County applied for and received four temporary diversion licenses for the purpose of dust control on County gravel roads. These temporary licences allowed us to withdraw water from wetlands and ponds close to road rights-of-way in areas of the County that are far from other permanent, licensed water sources. By finding temporary sources close to work areas we are able to reduce travel back and forth with water trucks, saving fuel consumption and improving the efficiency of projects!

ADVOCACY EFFORTS

Resolutions sent forward to Rural Municipalities of Alberta (RMA) Conferences are one way that municipalities like Wheatland County can advocate politically for change at the provincial and federal levels, on behalf of the needs and wishes of their communities. Following the success of our Wetland Policy resolution at the 2018 Fall RMA Conference, Wheatland County was successful in achieving RMA support for advocacy on two more environmental topics:



This resolution requested that the Government of Alberta update and improve the Province's Code of Practice for Compost Facilities. Wheatland County and its residents experienced a lack of options available to Alberta Environment and Parks for enforcement of environmentally-impactful side-effects of atypical composting methods. Part of the issue was determined to be the non-enforceability of the Standards for Composting Facilities in Alberta, which were developed to replace the Code of Practice but never formally adopted by the Province. To help to prevent similar impacts from occurring both within Wheatland County and throughout the province in the future, Wheatland County advocated for improvement of the enforceable Code of Practice.





PROVINCIAL EXTENDED PRODUCER RESPONSIBILITY REGULATIONS (FALL CONFERENCE)

With this resolution, Wheatland County requested that the Rural Municipalities of Alberta join the advocacy campaign to encourage the Government of Alberta to implement extended producer responsibility regulations. Extended producer responsibility is a current topic of importance in waste management and recycling. It is an environmental policy approach whereby the producer of a product that produces or becomes waste after being used becomes more responsible for the cost and logistics of what happens to the product once it becomes waste. The intent of extended producer responsibility is to shift the cost and responsibility for managing recycling systems from local governments to producers. This would increase availability and feasibility of recycling options to divert more material from landfills, and force producers of wasteful products to think more carefully about the amount and type of materials being used.



Wheatland County's "Wheatland West" Waste Transfer Site. Collection bins are pictured, with plastic container recycling collection in the background. Extended Producer Responsibility has a focus on packaging. Shifting responsibility for this packaging would reduce recycling costs for municipalities.



CONTACT INFORMATION

Any comments or questions regarding the content of this Environmental Program Update may be directed to Wheatland County's Agriculture and Environment Department.

Russel Muenchrath

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Or call our front desk to be directed accordingly: 403-934-3321

Hard copies of this document are available at the County Office: 242006 Range Road 243, HWY 1, RR 1, Strathmore, AB T1P 1J6. Approximately 7 km east of Strathmore on Highway 1.

Creative landscape photos used in this document represent Wheatland County's agricultural environment and are the work of Sarah Schumacher.





