# ENVIRONMENT ACT PROPOSAL GREENWALD BIOMASS PELLETIZING PLANT NW 01-17-08 EPM

**Prepared for:** 

**Greenwald Colony Farms Ltd.** 

Project No: 121-23044-00

September 2012



GENIVAR 10 PRAIRIE WAY WINNIPEG, MB R2J 3J8

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#### 0.0 EXECUTIVE SUMMARY

The Manitoba Environment Act outlines the environmental assessment and licensing process for developments in Manitoba that may have potential for significant environmental effects. The proposed project is listed as a Class 1 Development under the Manitoba Environment Act Classes of Development Regulation (Manitoba Regulation 164/88) and is therefore required to complete and submit an Environment Act Proposal (EAP) to the Environmental Assessment and Licensing Branch (EALB).

Greenwald Colony Farms Limited has proposed to construct a biomass pelletizing plant near Stead, Manitoba to process straw into burnable fuel pellets. The proposed project (Project) includes facilities for a processing plant, office trailer and raw material storage. The proposed site is located at NW 01-17-08 EPM approximately 5 kilometres east of the Town of Stead in the Rural Municipality of Alexander, Manitoba.

This document has been developed using the Information Bulletin – Environment Act Proposal Report Guidelines, January 2011.

Upon approval from Manitoba Conservation and issuance of an Environment licence, it is anticipated that construction will begin in late fall/early winter 2012.

#### 1.0 DEVELOPMENT INFORMATION

#### **Greenwald Biomass Pelletizing Plant**

Name of development

#### **Greenwald Colony Farms Limited**

Legal name of the proponent of the development

#### 5 kilometres east of the Community of Stead, Manitoba – NW 01-17-08 EPM

Location of development

#### Contact Person for Proponent:

#### Mr. Ben Hofer

Treasurer, Greenwald Colony Farms Ltd. Box 3140 RR 3 Beausejour, Manitoba R0E 0C0 Phone: (204) 265-3315 Fax: (204) 265-3367 E-mail: hoferben@yahoo.ca

#### Contact Person for Environmental Assessment:

#### Mr. lain Pimlott, B. Sc.

GENIVAR 10 Prairie Way Winnipeg, Manitoba R2J 3J8

#### Proposal Contents:

Sectio	on of Environmental Act Proposal Form	Section Number in Report					
DESC	DESCRIPTION OF DEVELOPMENT:						
(i)	Legal description and map of development	2.1					
(ii)	Mineral rights	2.2					
(iii)	Existing land use	2.4					
(iv)	Land use designation	2.3					
(v)	Previous studies	2.5					
(vi)	Proposed development	2.6					
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(viii) Potential impacts		4.0					
(ix) Proposed environmental management		5.0					
SCHE	DULE:	6.0					

#### 2.0 DESCRIPTION OF DEVELOPMENT

#### 2.1 CERTIFICATE OF TITLE

A copy of a Title Search and a Property Tax Bill are included in Appendix B. The legal description for the site is: NW ¼ 1-17-8 EPM EXC POWER TRANSMISSION LINE PLAN 5142 WLTO SUBJECT TO THE RESERVATIONS AND PROVISOES CONTAINED IN THE GRANT FROM THE CROWN

#### 2.2 MINERAL RIGHTS

The mines and minerals rights for the development area are vested with the Crown. A letter from the Crown Lands and Property Agency is attached in Appendix C.

#### 2.3 LAND USE DESIGNATION

The property is currently zoned Rural Area (A80) and will retain this designation with this new land use. The municipality's zoning by-law provides for the approval of this project through a conditional use process, as it relates to the processing of agriculture products. An email from the RM of Alexander is attached in Appendix C.

#### 2.4 EXISTING LAND USE

The land intended for development is currently utilised for agricultural production. The project is located on a 6 acre lot on the northwest corner of NW 01-17-08 EPM in the Rural Municipality of Alexander. A farm yard is located directly north of the proposed site. The nearest residence is located on SW 12-17-08 EPM, approximately 230 metres north of the proposed facility.

#### 2.5 PREVIOUS STUDIES

No previous studies were completed for this project.

#### 2.6 DESCRIPTION OF PROPOSED DEVELOPMENT

#### 2.6.1 **Project Schedule**

Following regulatory approval, the Proponent will commence construction of the facility as early as late fall, 2012. Construction activities are expected to last approximately three (3) to six (6) months. It is expected that the first commercial processing of straw will take place in the spring of 2013.

Detailed project construction schedule (proposed dates)

Activity	Proposed Start	Proposed Finish
	Date	Date
Land survey	Sept. 24, 2012	Sept. 28, 2012
Site Preparation	Sept. 29, 2012	Oct. 10, 2012
Design and build tendering	Oct. 11, 2012	Oct. 22, 2012
Main processing facility construction	Oct. 30, 2012	Dec. 3, 2012
Equipment installation and finish	Dec. 7, 2012	Dec. 23, 2012

#### 2.6.2 Proposed Development

The conceptual design drawings of the project are attached in Appendix D. The project will include the following components:

- Construction of a state-of-the-art biomass pelletizing facility, office trailer and storage bins;
- Upgrading of access roads, parking area and utility infrastructure;
- Operation of a biomass pelletizing facility, including;
- Production of stove pellets;
- Shipping products to end users.

An estimated area of six (6) acres of land will be required for the processing plant, office trailer and storage facilities.

Any construction activities conducted will be carried out by certified contractors trained in the safe handling and disposal of hazardous materials.

The proposed facility will include the construction of an 1187.6 m<sup>2</sup> (12,776.6 ft<sup>2</sup>) processing facility and storage building. The processing area will incorporate approximately 650.3 m<sup>2</sup> (7,000 ft<sup>2</sup>) of the footprint, the storage area utilizing 487.7 m<sup>2</sup> (5,250 ft<sup>2</sup>) and a mechanical

room utilizing 48.3 m<sup>2</sup> (520 ft<sup>2</sup>). The facility will be a structural steel style building with metal insulated walls and concrete steel reinforced slab-on-grade floors. The building design drawings of the project are attached in Appendix E.

The proposed development is consistent with compatible land use policies for the area and interference with other resources and highways is minimised as direct access is from an existing municipal road (97N).

The area surrounding the facility will be graded to facilitate proper drainage of rainwater. Gravel paving will be provided for primary walkways, driveways, and staff parking lot.

Water will be supplied via truck haul from a well located on Greenwald Colony. Wastewater disposal will be via a holding tank located in the ATCO Trailer Office located adjacent the processing building.

Manitoba Hydro is scheduled to install 3-phase power service in the easement on the northwest corner of the property to supply the appropriate load to the facility.

#### 2.6.3 **Process Description**

The facility will process and supply biomass stove pellet products to local farm operations. The plant will strive to minimize wastes and emissions including particulate matters and GHG emissions. The plant is designed to utilize 100% of the straw including waste and dust which will be collected and pressed into stove pellets.

Generally, raw straw bales are brought to site for temporary storage and preliminary tempering. The straw will then be processed through a rotary screen and bale crusher for the grinding. The end product will be finely grinded straw material that will be processed into biomass stove pellets. The production line will consist of a belt conveyor, rotary screen and a bale crusher for straw grinding; conveyor, furnace and rotary drum dryer for drying the product; bucket elevators, conveyor and pelletizing machine for pellet production; conveyor and counter flow cooler for cooling the product.

Dust produced throughout the processing will be collected using a bag dust collector MC 36 Pulse Dust Collector. This dust collector has a speed of filtration of up to 4 meters/sec. At 4 metres/sec, the inlet concentration is  $\leq 3 \text{ g/m}^3$ . De-dusting efficiency is 99 percent.

In the first year of operation, the facility expects approximately 400-450 tandem grain trucks entering to supply primarily straw bales and other materials and in total 400-450 tandem grain trucks leaving the plant for products distribution. In other words, it is 1 - 2 loads per day coming in and 1 to 2 trucks going out.

For year one which has only one shift per day, normal hours of operation are 7:00AM – 8:00PM from Monday to Saturday. The operation is expected to operate between April 1 and October 31 on an annual basis. The total number of employees for year one is 5.

The facility will be operated primarily through the use of electric energy via a 500 kVA Diesel Generator, to provide power to the processing equipment.

The proponent anticipates that approximately 100% of the feed stock will be produced within 50 km of the site.

#### 2.6.4 On-site Material Storage Plan

Straw bales will be stored temporarily on site and processed immediately. Once processed, the stove pellets will be immediately loaded on to trucks and shipped to Greenwald and Brightstone Colonies. Twenty – 30,000 bushel grain bins will be located onsite for storage of the stove pellets if necessary.

#### 2.6.5 Hazardous Waste

This plant will use a renewable biomass (straw) as the primary feedstock for production. No hazardous materials will be stored on-site. Some petroleum products will be stored for lubrication of the industrial equipment. Any spillage of these petroleum products will be managed according to safety requirements. All materials will be stored, used, and disposed of according to applicable regulations. A WHMIS program will be implemented by the proponent.

#### 2.6.6 Solid Waste

Waste from the project will include typical municipal waste generated from the office and plant personnel. Construction waste will be generated during construction phase of the project.

#### 2.6.7 Fire Protection

A truck equipped with a 10,000 gallon tank of water and pump will be stored on site. The Municipal Fire Department and fire trucks from neighbouring communities are also available for emergency service. There is immediate access to additional equipment and fire fighters located at Greenwald and Brightstone Hutterite Colonies (a total of three fire trucks).

#### 2.7 DECOMMISSIONING

It is anticipated that the venue will be operational for at least the next 25 to 50 years. Decommissioning activities will be conducted in accordance with the legislation, standards, and guidelines applicable at that time.

#### 2.8 FUNDING

An application has been filed with The Manitoba Biomass Energy Support Program; Manitoba Agriculture Food and Rural Initiatives Agri-Energy Office for funding support of the facility.

> Manitoba Agriculture Food and Rural Initiatives Agri-Energy 1200 – 155 Carlton Winnipeg, MB R3C 3H8

#### 2.9 REGULATORY APPROVAL

The Manitoba Conservation Environmental Assessment and Licensing Branch is the lead Regulatory Authority (RA).

#### 2.10 PUBLIC INVOLVEMENT

The RM of Alexander held a public hearing on February 14, 2012 in regard to Greenwald Colony Farms Ltd. Conditional Use Application. Minutes from this hearing are attached in Appendix G.

Comments from concerned members of the public will be solicited as part of Manitoba Conservation's review prior to issuing a licence.

#### 3.0 DESCRIPTION OF EXISITING ENVIRONMENT

#### 3.1 BIOPHYSICAL ENVIRONMENT

#### 3.1.1 Regional Setting

The economy in the RM of Alexander consists mainly of forestry, recreation and agriculture. The forest areas are utilized for production of pulp fiber and wood products, and in conjunction with the organic terrain also provide habitat for wildlife and various recreation opportunities. The limited land area developed for agriculture is used mainly for mixed farming. Infrastructure to support agriculture, forestry, urban areas, transportation and recreation also occupies a small land area.

#### 3.1.2 Regional Climatological Setting

The mean annual temperature is 1.9° Celsius and the mean annual precipitation is 523 mm at Pine Falls. The average frost-free period is 107 days and degree-days above 5° Celsius accumulated from May to September average 1579. The seasonal moisture deficit calculated between May and September is slightly greater than 200 mm. The estimated effective growing degree-days accumulated from May to September vary from 1400 to 1500. These parameters provide an indication of moisture and heat energy available for crop growth and are generally adequate to support a wide range of crops adapted to western Canada.

#### 3.1.3 Regional Surface and Groundwater Conditions

The closest surface water resource is Gull Lake, located approximately five kilometres to the west. Catfish Creek is located seven kilometres to the north of the site. During precipitation events and snow melt, the natural slope of the property provides for surface water drainage to the ditches surrounding the property.

Well logs within a ten-kilometre radius of the site indicate that water for domestic and livestock usage is obtained from lenses and some fairly extensive deposits of sand and gravel at about 3 to 65 metres below grade. Groundwater quality ranges from good to excellent. Drainage maps indicate the surface drainage moves northeast toward Catfish Creek and eventually Lake Winnipeg.

#### 3.1.4 Regional Terrestrial Environment

The land is in close proximity to the community of Stead and is currently used for agricultural purposes. The agricultural conditions and the impacted landscape limit suitability of the area to wildlife. Species reported to be present in the area include gophers, deer, geese, coyote, raccoons, fox, mice, ducks, ravens, seagulls, songbirds, and various insect species.

#### 3.1.5 Species at Risk

A search of the MB Conservation Data Centre, rare and endangered species database was requested September 10, 2012, the search found no occurrences at this time for the area of interest. An email from the Manitoba Conservation Data Centre is attached in Appendix C.

Fish and fish habitat will not be affected by this project. Navigable and non-navigable waters will not be encountered or crossed during this project.

#### 3.2 SOCIO-ECONOMIC ENVIRONMENT

#### 3.2.1 Public Safety and Health Risks

A potential safety risk of the project is the periodic delays and inconvenience to individuals utilising the area during construction. The effects will be mitigated by the incorporation of site access for vehicles, which will be coordinated with local traffic patterns to minimise delays in vehicle movement. No other impacts on public safety were identified within the Project area.

#### 3.2.2 Protected Areas

Belair Provincial Forest is located directly north and Brightstone Sand Hills Provincial Forest is located eight kilometres to the west of the proposed project location. Brokenhead Wetland Provincial Ecological Reserve is located 12 kilometres west of the proposed site.

#### 3.2.3 Heritage Resources

Manitoba Historic Resources Branch has indicated that the potential to impact significant heritage resources is low and therefore, the Branch has no concerns with the project. A letter from the Manitoba Historic Resources Branch is attached in Appendix C.

#### 3.2.4 First Nations

The nearest First Nation community is the Brokenhead Ojibway Nation #4 (Baaskaandibewiziibiing) which is located approximately 15 kilometres west of the proposed project.

#### 4.0 ENVIRONMENTAL EFFECTS

#### 4.1 EMISSIONS IMPACT

Fines or dust generated from processing straw fibre are the major source of particulate matter emission in the facility. Dust is expected in processes including bale opening, bale crushing, fibre separations, fibre grinding, and fibre blending, where severe mechanical forces are applied to the material in a semi-closed space. Metal vacuum enclosures will be mounted to all processing areas, and dust will be drawn through pipes to a dust collection system that includes a pulse air bag-house fabric filter. Specifications of this filter system are attached in Appendix F. The concentration of dust in the input air is estimated at less than 3 g/m3. Based on the 99.5% dust removal efficiency, dust in the output clean air should be less than 15 mg/m3.

#### 4.2 LAND IMPACT

Project related activities will be limited to the proposed project location. It is unlikely that construction on the disturbed (agricultural) site will have any significant adverse environmental effects on local flora or fauna. The proposed site is currently used in an agricultural capacity for grain storage; it is highly unlikely any of the listed flora occur on site. The proposed project site is highly unlikely to provide important habitat for rare or endangered animal species.

#### 4.3 SURFACE WATER

The closest surface water resource is Gull Lake, located approximately five kilometres to the west. Catfish Creek is located seven kilometres to the north of the site. During precipitation events and snow melt, the natural slope of the property provides for surface water drainage to the ditches surrounding the property.

According to maps in the Rural Municipality of Alexander Information Bulletin 99-27, the subject property is not located in a flood prone area.

#### 4.3.1 Fuel Storage On-Site

Hazardous materials stored on-site will include diesel and gasoline as fuel for their own industrial equipment and other petroleum products for lubrication. Any spillage of these petroleum products will be managed according to safety requirements. All hazardous materials will be stored, used, and disposed of according to applicable regulations. A WHMIS program will be implemented by the proponent.

#### 4.4 **GROUNDWATER**

Well logs within a ten-kilometre radius of the site indicate that water for domestic and livestock usage is obtained from lenses and some fairly extensive deposits of sand and gravel at about 3 to 65 metres below grade. Groundwater quality ranges from good to excellent. Drainage maps indicate the surface drainage moves northeast toward Catfish Creek and eventually Lake Winnipeg.

#### 4.5 SPECIES IMPACT

A file search with the Biodiversity Conservation Wildlife and Ecosystem Protection Branch of Manitoba Conservation resulted in no occurrences in the region. Correspondence is included in Appendix B.

#### 4.6 FISHERIES IMPACT

The closest surface water resource is Gull Lake, located approximately five kilometres to the west. A network of drainage ditches surrounds the site and eventually drains into Catfish Creek, located seven kilometres to the north. The proposed project will not discharge wastewater into any surface water stream. All wastewater from the processing facility will be collected in an on-site holding tank. No water is used during processing. No wastewater is generated during the processing phase.

#### 4.7 FORESTRY IMPACT

There is no known forestry activity near the proposed project location. Construction activities will not affect any forested area.

#### 4.8 HERITAGE RESOURCES

In a letter from the Historic Resources Branch dated September 12, 2012, it was stated that the potential to impact significant heritage resources is low, and, therefore, the Historic Resources Branch has no concerns with the project at this time. This letter is included in Appendix C.

#### 4.9 SOCIO-ECONOMIC IMPACTS

The construction of the proposed facility will result in a short-term boost to the construction industry in the area. A long-term boost to the agricultural sector will be achieved through the purchasing of straw material.

#### 4.10 CLIMATE IMPACT

Local road traffic and agricultural emissions are the predominant sources of greenhouse gas emissions (GHG) in the area. The region surrounding the site includes residential dwellings and agricultural fields. An increase in truck traffic will occur during construction and operation of the plant. The effect of these activities on air quality will vary with seasonal weather patterns.

The processing facility will not be heated year-around. All equipment will run on hydro electricity, resulting in nearly zero GHG emissions. The GHG emission sources for this plant will be diesel or gasoline driven industrial equipment, including 1 bobcat, 1 forklift, 1 tractor, and several tandem trucks. It is estimated that those vehicles consume 5,000 litres diesel (GHG emission 2.73kg/L), 3,000 litres gasoline (GHG emission 2.43 kg/L), resulting in GHG emissions of 21 metric tonnes. The plant will use E10 gasoline (with 10% ethanol) and B5 diesel (5% bio-diesel) as much as possible to minimize GHG emissions. It is also assumed that 2 employees will drive up to 50 km daily to and from work for the first year of operation. Based on this assumption, the annual gasoline consumption for employees traveling to and from the plant is approximately 3,500 litres, resulting in 9 metric tonnes of GHG emissions.

#### 4.11 PUBLIC INVOLVEMENT

Comments from concerned members of the public will be solicited as part of Manitoba Conservation's review prior to issuing a licence.

#### 5.0 MITIGATION MEASURES AND RESIDUAL ENVIRONMENTAL EFFECTS

The impact assessment of the Project focused on an evaluation of the factors that may affect existing environmental conditions within the Project area, and includes mitigation measures to prevent or minimise potential effects. Implementing responsible construction and operation practices can mitigate most potential environmental impacts. The impact assessment is based on GENIVAR's understanding of the Project at this time; predicted issues and associated effects may change as construction plans are finalised.

#### 5.1 AIR QUALITY

Potential environmental effects on the atmospheric environment will be primarily from construction activities and facility emissions during operation.

Emission of particulate matter, combustion gases, and greenhouse gases will be generated through normal operation of construction vehicles (i.e., delivery trucks, dump trucks, excavators, rollers). Emissions will also result from workers traveling to and from site in personal vehicles. Vehicular emissions are expected to be nominal.

Construction of the facility may result in intermittent, short-term increases in ambient noise levels surrounding the property, due to operation of heavy equipment and noise generated directly from construction activities. Noise generated by project construction may temporarily exceed ambient levels. To mitigate against this potential effect, all construction activities will abide by the provincial regulations and municipal by-laws.

Local road traffic and agricultural emissions are the predominant sources of GHG emissions in the area. The region surrounding the site includes residential dwellings and agricultural fields. An increase in truck traffic will occur during construction and operation of the plant. The effect of these activities on air quality will vary with seasonal weather patterns.

During operation, noise will be generated from trucks entering and exiting the facility, and from processing equipment inside the facility. This plant resembles a typical processing plant, with major noise sources from electrical motors, blower fans, and running rollers in pelletizing and separation units. However, since all running parts are encased, the noise

level is greatly reduced. It is estimated that the noise level is not greater than 85Db for 8hour continuous working environment. The plant will develop a health and safety program as required by regulations. Workers will wear earmuffs or earplugs if required. If operational noise is deemed to be a nuisance, the proponent is committed to installing the necessary sound insulation at the facility.

The environmental effects of accidents and malfunctions on the atmospheric environment would include fires and accidental releases of hazardous materials (such as fuel spills) from construction equipment and vehicles. Following federal/provincial regulatory guidelines and training of construction and operational personnel will minimize the potential for adverse effects on the atmospheric environment due to accidents and malfunctions.

#### 5.2 TERRESTRIAL ENVIRONMENT

Project related activities will be limited to the proposed project location. It is unlikely that construction on the disturbed (agricultural) site will have any significant adverse environmental effects on local flora or fauna. The proposed site is currently used in an agricultural capacity for crop production; it is highly unlikely any of the listed flora occur on site. The proposed project site is highly unlikely to provide important habitat for rare or endangered animal species.

Migratory birds are protected under the *Migratory Birds Convention Act (MBCA*). There is very low potential for the project to affect species protected under the *MBCA* given the agricultural disturbance that occurs on the site, surrounding development, and the higher quality habitats within surrounding natural areas.

Excavation (for construction) will be required to remove top soil and fill materials from site. All excavated material will be removed by the contractor and will be handled in a provincially approved manner.

Accidents and malfunctions may result in potential soil contamination on the site. Proper training of construction personnel and adherence to applicable regulations will minimize the risk of accidental events.

During operation, the facility will be used to process straw fibre. All activities will be confined to the property. As previously noted, there is very low potential for rare or uncommon species to inhabit this site.

#### 5.3 GROUNDWATER

The greatest threat to groundwater is the potential for accidents and malfunctions such as the release of hazardous materials (i.e., fuel or lubricants from construction machinery), during the construction phase. The Proponent will ensure that standard contingency planning (i.e., spill response plan and spill kits on site) will be implemented prior to mobilization of construction machinery. All construction and operational personnel will be trained to handle all the hazardous materials that will be used on site. Under these conditions, it is unlikely that the construction phase of the project will have any significant adverse environmental effect on groundwater. All spills will be reported to the appropriate authority and remediated in accordance with applicable regulations (Manitoba Environment Act Regulation 97/88R).

Vehicles and equipment will not be refueled on site, unless in a pre-designated contained area for the construction of the facility only. All hazardous materials used as part of the construction or operational phase of the project will be stored according to applicable regulations.

#### 5.4 LAND USE

The Project Development Area is currently an agricultural plot of land vacant of infrastructure.

There are agricultural operations to the north and east of the property. Since construction and operational activities will be confined to the property, the project is not expected to affect land use at these operations or at nearby residences.

In the operational phase, the facility will be used as a seasonal production facility, receiving truck loads of straw and processing materials, and shipping out finished product. Considering the use of neighbouring properties (agricultural operations), residents in the area should be accustomed to any project related truck traffic.

Accidents and malfunctions during construction and operation represent potential for temporary loss of useable space at the site. Spills or fires may render nearby areas (commercial enterprises and residences) unsuitable for typical activity levels. To minimize the risk to adjacent land users, mitigation will include preparation of contingency plans for spills and large fires. The proponent will ensure that standard contingency planning (i.e., spill response plan and spill kits to be available on site) will be implemented so that the potential for spills and fires is minimized during all phases of the project.

#### 5.5 DECOMMISSIONING

The project is not scheduled for decommissioning, but will follow all applicable regulations, guidelines, and by-laws regarding the atmospheric environment, if decommissioning is required in the future. It is anticipated that decommissioning of the facility would generate impacts on the atmospheric environment that are of similar magnitude and duration as those effects generated during construction.

#### 6.0 SCHEDULE

It is anticipated that the Environmental Act Licence process will be finalized by December of 2012. Following regulatory approval, the Proponent will commence construction of the facility. Construction activities are expected to last approximately three (3) to six (6) months.

#### **Project Construction Schedule (proposed dates)**

Activity	Proposed Start Date	Proposed Finish Date
Land survey	Sept. 24, 2012	Sept. 28, 2012
Site Preparation	Sept. 29, 2012	Oct. 10, 2012
Design and build tendering	Oct. 11, 2012	Oct. 22, 2012
Main processing facility construction	Oct. 30, 2012	Dec. 3, 2012
Equipment installation and finish	Dec. 7, 2012	Dec. 23, 2012

#### 7.0 REFERENCES

Groundwater Resources in the LGD of Alexander Planning District (A Synopsis), 1982. Manitoba Natural Resources, Water Resources Branch.

Health Canada, 2008. Guidelines for Canadian Drinking Water Quality. Accessed via internet. <u>http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/sum\_guide-res\_recom/chemical</u> chimiqueseng.php

Information Bulletin – Environment Act Proposal Report Guidelines , January 2011-Environmental Assessment and Licencing Branch, Manitoba Conservation. Accessed via internet. http://www.gov.mb.ca/conservation//eal/publs/index.html

Manitoba Department of Agriculture and Conservation, 1967. Soils of the Lac Du Bonnet Area.

Land Resource Unit, 2000. Soils and Terrain. An Introduction to the Land Resource. Rural Municipality of Alexander. Information Bulletin 99-27, Brandon Research Centre, Research Branch, Agriculture and Agri-Food Canada.

#### 8.0 STANDARD LIMITATIONS

The findings and recommendations provided in this report were prepared by GENIVAR (the Consultant) in accordance with generally accepted professional engineering principles and practices. The information contained in this report represents the professional opinion of the Consultant and their best judgment under the natural limitations imposed by the Scope of Work.

This report is limited in scope to only those items that are specifically referenced in this report. There may be existing conditions that were not recorded in this report. Such conditions were not apparent to the Consultant due to the limitations imposed by the scope of work. The Consultant, therefore, accepts no liability for any costs incurred by the Client for subsequent discovery, manifestation or rectification of such conditions.

This report is intended solely for the Client named and Manitoba Conservation as a general indication of the visible or reported condition of the items addressed in the report at the time of the assessment. The material in this report reflects the Consultant's best judgment in light of the information available to it at the time of preparation.

This report and the information and data contained herein are to be treated as confidential and may be used only by the Client and its officers and employees and Manitoba Conservation in relation to the specific project that it was prepared for. Any use a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. The Consultant accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The report has been written to be read in its entirety, do not use any part of this report as a separate entity.

All files, notes, source data, test results and master files are retained by GENIVAR and remain the property of the Consultant.

#### GENIVAR

Prepared by: lain Pimlott, B. Sc. Environmental Scientist

Reviewed by: Ross Webster, P.Eng. Manager, Environmental Group





## **APPENDIX A**

Site Location

# Greenwald Biomass Pelletizing Plant EAP

Ν



Site Location NW 01-17-08 EPM

# Greenwald Biomass Pelletizing Plant EAP

N



Source: Google Earth, 2012

Site Location NW 01-17-08 EPM

# Greenwald Biomass Pelletizing Plant EAP





Source: Google Earth, 2012

Site Location NW 01-17-08 EPM

## **APPENDIX B**

Land Title Search

09/04/2012 TUE 15:55 FAX 204 942 2325 MURRAY & KOVNATS

2002/004

DATE: 2012/09/04	TITLE	SEARCH	PASMWIE
TSTL (1 OF 9)	TITLE DISPLAY -	- WINNIPEG	PAGE: 01
TITLE NUMBER	2247377/1	TITLE STATUS	ACCEPTED
REGISTRATION DATE	2007/08/21	ASSESSMENT OFFICE	** MANITOBA **
COMPLETION DATE	2007/08/29	CONSOLIDATION	NO
LEGAL DESCRIPTION:			

GREENWALD HOLDING CO. LTD.

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON IN THE FOLLOWING DESCRIBED LAND:

NW 1/4 1-17-8 EPM EXC POWER TRANSMISSION LINE PLAN 5142 WLTO SUBJECT TO THE RESERVATIONS AND PROVISOES CONTAINED IN THE GRANT FROM THE CROWN

TX: \_\_\_\_\_ DA: \_\_\_\_\_ ----

2003/004

DATE: 2012/09/04	TITLE SEAR	CH	PASMWIE
TSEC (2 OF 9)	TITLE DISPLAY - WIN	NIPEG	PAGE: 01
TITLE NUMBER	2247377/1	TITLE STATUS ACCE	PTED
REGISTRATION DATE	2007/08/21	ASSESSMENT OFFICE ** M	ANITOBA **
COMPLETION DATE	2007/08/29	CONSOLIDATION NO	
ACTIVE CHARGE LIST:	BEGINNING		
181412/1 ACCEPTED	CAVEAT	REG'D:	1961/07/11
DESCRIPTION:	N 15 FT. PERP		
FROM/BY:	MAN. TELEPHONE	SYSTEM	
TO:			
CONSIDERATION:		NOTES:	
35-99843/1 ACCEPTED	CAVEAT	REG'D:	1985/10/22
FROM/BY:	MAN. TELEPHONE	SYSTEM	
TO:			
CONSIDERATION:		NOTES:	
15			
TX:		REGISTRATI	ON TO DISPLAY
DA:	F6-	TSTC	

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DATE: 2012/09/04	TITLE	SEARCH	PASMWIE
TSTS (3 OF 9)	TITLE DISPLAY -	WINNIPEG	
TITLE NUMBER	2247377/1	TITLE STATUS	ACCEPTED
REGISTRATION DATE	2007/08/21	ASSESSMENT OFFICE	** MANITOBA **
COMPLETION DATE	2007/08/29	CONSOLIDATION	NO

#### SUMMARY OF TITLE DATA

		SELECT ONE OF	THE FOLLO	WING:
TITLE NOTES			MORE?	NO
ORIGINATING REG. NUMBER	3500763/1		MORE?	NO
FROM TITLE NUMBER	1921076/1	TYPE ALL	MORE?	NO
RPA/CROWN GRANT NUMBER			MORE?	NO
NAME FOR SERVICE	GREENWALD HOLDIN BOX 3140, R.R. # BEAUSEJOUR MB	G CO. LTD. 3	MORE?	NO
POSTAL CODE	ROEOCO EFFE	CT ACTIVE		
DUPLICATE PRODUCED ?			MORE?	NO
ISSUED DATE				
TX:		NEXT TITLE NUM	BER	
DA:				
NO MORE INFORMATION EXISTS	S REGARDING THIS	SCREEN		

## **2011 PROPERTY TAX BILL**

MUNICIPALITY # 600 ROLL NUMBER 0020000.000

RM OF ALEXANDER BOX 100 ST. GEORGES MB ROE 1V0 Phone: (204) 367 - 6170 Fax: (204) 367 - 2257 Website : www.rmalexander.com E-mail : info@rmalexander.com

BOX 3140 RR 3 BEAUSEJOUR MB					REAL PROPERTY				
	ROE OCO			Lot/Section	n Bik/Tw	p Plan/Range	Frontage/Area	Dwei	ling Units
				DES NW1	17 8E		152.00 A		
	r			Civic Ad	dress : 470	01 STEAD RD 97N			
F	Title or Deed	Tax Status	Land	Building	Total	Class	5	Portion %	Portioned Assessment
SSESSMEN	2247377	Taxable	78,300	135,600	213,900	Farm Property		26.00	55,620
•		GENERAL MUN	NICIPAL IPAL AT LARGE		ř,	Assessment 55,620	Mill Rate 11.230	Γ	Taxes Owing 624.61
		By-Law		End Year	Levy				
MU	JNICIPAL TAXES								
		SCHOOL DIVIS	SION		NET	MUNICIPAL TA	XES ——	+	624.61
		Inquiries : (204) 268 Sunrise	- 6500			55,620	16.490		917.17
S <sup>(1</sup> )	CHOOL TAXES		NET	r school div	ISION LEVY			-	917.17
					N	IET SCHOOL TA	XES	+	917.17
		-	i constanti di seconda d			CURRENT TA	XES		1,541.78
						BALANCE OW	ING	•	1,541.78
[mp	ortant Me	sages:					DUE DATE : S	en 01. 7	011

#### Important Messages:

Manitoba Education/Property Tax Credit Advance: Residence must be owner occupied as of January 1. For additional information telephone: Toll Free 1-800-782-0771, Winnipeg 948-2115.

Manitoba Farmiand School Tax Rebate : Applications and more information are available at your local MASC and MAFRI offices and www.masc.mb.ca. For additional information telephone Toll Free 1-866-Manitoba (1-866-626-4862).

**APPENDIX C** 

Correspondence from the Manitoba Historic Resources Branch, Archaeological Assessment Services Unit, Crown Lands and Property Agency, RM of Alexander and Manitoba Conservation Wildlife and Ecosystem Protection Branch



# Memorandum

Date:	September 12 <sup>th</sup> , 2012
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То:	lain Pimlott		From:	Jenny Payment			
	Genivar			Impact Assessm	nent Archaeologist		
				Historic Resour	ces Branch		
	10 Prairie Way,	The Waters Business Park		Main Floor 213 Notre Dame Ave			
	Wpg, MB	R2J 3J8		Wpg, MB	R3B 1N3		
				Phone #: (204) 945-4768			

Subject: Greenwald Colony Biomass Pelletizing Plant

HRB FILE: AAS-12-4885

Further to your memo regarding the above mentioned development proposal, I have examined the location in conjunction with Historic Resources Branch records for areas of potential concern. The Historic Resources Branch has <u>no concerns</u> with the development proposal.

If at any time heritage resources are encountered in association with these lands during any development, the Historic Resources Branch may require that a heritage resource management strategy be implemented by the developer to mitigate the effects of development on any heritage resources.

If you have any questions or comments, please feel free to contact me (Jenny Payment), by phone (see above), or by email: <u>Jen.Payment@gov.mb.ca</u>.

Jenny Payment

#### lain Pimlott

From:Little, Karen (CLPA) [Karen.Little@gov.mb.ca]Sent:Monday, September 10, 2012 1:49 PMTo:Iain PimlottSubject:RE: Mineral Rights ~ NW 1-17-8 EPM (Greenwald Colony BiomasPelletizing Plant - EAP)

Good afternoon lain, according to The Crown Land Registry System, this date, NW 1-17-8 EPM was originally granted to John Tomasyk October 11, 1921 along with the sand & gravel. The Crown kept ownership to the mines & minerals.

I unable to comment whether or not ownership to the sand & gravel is still with the surface title or if it has been severed, as I was not provided with a copy of the Certificate of Title. Ownership of the mines & minerals remain with the Crown.

If I can be of further assistance, contact me at any of my numbers noted below. Sincerely,

#### Karen Little

Supervisor of Crown Lands Registry Crown Lands and Property Agency 308 - 25 Tupper Street North Portage la Prairie MB R1N 3K1 P (204) 239-3805 F (204) 239-3560 Toll Free 1-866-210-9589 karen.little@gov.mb.ca



An Agency of MB Infrastructure and Transportation

#### lain Pimlott

From:	Michele Stefaniuk [micheles@rmalexander.com]
Sent:	Wednesday, September 12, 2012 9:59 AM
To:	lain Pimlott
Cc:	'Erb, Michelle (MAFRI)'; 'Moir, Kate'
Subject:	RE: Greenwald Colony Biomass Pelletizing Plant - EAP

Good Morning lain,

Please be advised that the land in question is designated "Rural Area" and the Zoning is "A80".

Regards,

# Michele Stefaniuk, C.M.M.A.

Assistant CAO R.M. of Alexander Box 100 St. Georges MB ROE 1VO (204) 367-6174

From: Moir, Kate [mailto:Kate.Moir@gov.mb.ca]
Sent: Monday, September 10, 2012 1:25 PM
To: 'Iain.Pimlott@genivar.com'
Cc: Erb, Michelle (MAFRI); 'Michele Stefaniuk'; 'micheles@rmalexander.com'
Subject: RE: Greenwald Colony Biomass Pelletizing Plant - EAP

Good afternoon lain,

I was forwarded your request by MAFRI. We always encourage applicants/developers to contact the RM directly to confirm land use designations/zoning to ensure that you have the most up to date information. The contact for the RM of Alexander is: Michele Stefaniuk at 204-367-6174. I have cc'd her on this email.

Michele Stefaniuk - my information is stating "Rural Area" and "A80" zone.

I hope this provides the direction you require.

Kate Moir, BA, MEM Community Planner Community Regional Planning Services Manitoba Local Government Box 50, L01- 20 First Street Beausejour MB R0E 0C0 p. 268-6064 f. 268-6007 e. kate.moir@gov.mb.ca

#### lain Pimlott

From:	Friesen, Chris (CON) [Chris.Friesen@gov.mb.ca]
Sent: To:	lain Pimlott
Subject:	RE: Greenwald Colony Biomass Pelletizing Plant - EAP

lain

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present; in many areas, comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments. Also, because the Manitoba CDC's Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request.

Please contact the Manitoba CDC for an update on this natural heritage information if more than six months pass before it is utilized.

Third party requests for products wholly or partially derived from Biotics must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using Biotics data, as follows as: Data developed by the Manitoba Conservation Data Centre; Wildlife and Ecosystem Protection Branch, Manitoba Conservation.

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information please contact me directly at (204) 945-7747.

Chris Friesen Biodiversity Information Manager Manitoba Conservation Data Centre 204-945-7747 <u>chris.friesen@gov.mb.ca</u> http://www.gov.mb.ca/conservation/cdc/

APPENDIX D

Project Design Drawings





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# APPENDIX E

**Building Plans** 

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BRG MFG INC. BEAUSEJOUR, MB

> South-Man Bring Provide Man

15-1599 Dugald Road | Winnipeg, Manitoba | R2J 0H3 PH. (204) 668-9652 | FAX (204) 668-9204

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al process the owner has indicated that operation of the entire faculity will be construction: ed by 2 people each day. For the process of health requirements in particular accurres this occupancy has been utilized.		3.4.6 TYPES OF EXIT FACILITIES	
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3.2.4. FIRE ALARM AND DETEC	ION SYSTEM	3.7 WASHROOMS	
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RAILDING CODE DESIGN SUMMARY PROJECT: BRO MANJEACTURING INC. - BIOMASS PELLETING FACILITY

SPECIFICATIONS
욁
NOTES
BIERA
751

8) BUILDING APEA - 12,776.60 SO/FT (1187.60 H2) BIOMASS PELLETING/STORAGE AREA BUILDING CLASSIFICATION

# <u>SEVERAL CONDITIONS</u> A) DESIGNED IN ACCORDANCE WITH NBC 2010 & MBC 2010

o) contractor to verily all dimensions and details rrigh to commencing construction, and report errors to the engmeer. D) placement of mechanicaltelectrical equipment shall not interfere with structural members of the building B) all design and construction shall comply with the national building code and the CSA Standard A23.1

(I.E. ROOF TRUSSES/FLOOR JOISTS)

e) design loads as sydyin on the drawing.

F) NO PROFFICATION, SUBSTITUTION OR AL TERATON SPALL BE DORE TO STRUCTURAL DRAWINGS WITHOUT WRITTEN APPROVAL FROM SOUTH-MAN ENGINEERING. O) STRUCTURAL DRAWINGS SHOW THE CONFLETED STRUCTURE. THEY DD NOT SHOW COMPORENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL "SULDING PROTECTION ACT", TO PROVED ALL RECESSARY SAFETY EXAMPENT AS REQURED FREERING ACT. TO PROVINCI SAFETY DATA "SULDING PROTECTION ACT", TO PROVED ALL RECESSARY SAFETY EXAMPENT AS REQURED FREERING TO THE LATEST REGULATIONS OF THE PROVINCIAL.

B) STRP ALL TOPSOIL AND ORGANIC MATERIAL FROM BUILDING AREA STOCKPILE MATERIALS FOR BAATFILLING AND LANDCAPING. SOFT OR MET MATERIAL STALL BE REPOVED AND REPLACED WITH LEAN MIX CONCRETE OR CARSHED ROCK COMPACTED TO 100% PROCTOR DENSITY. C) ALL FILL MATERIALS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN LIFTS NOT EXCEEDING 6'. D) ALL FINISHED LANDSCAPING IS TO BE SLOPED AMAY FROM BULDING AND STAT STE CONDITIONS AT MINIMUM OF 101. 3) SITE CONDITIONS J) SOLI BEARING CAPACITY BASED ON ISORDS". OWNER/CONTRACTOR IS REQUIRED TO VERITY BEARING CAPACITY AT TIME OF CONSTRUCTION ENONEERING FIRM ASSIMES NO LIABILITY FOR THIS ASSUMPTION RESULTING IN CONTRARY SOL. CONDITIONS.

.) CONCRETE CONDITIONS

A) PROVIDE KEYED JOANTS BETMEEN BREAKS IN CONCRETE POURS. ENSIGE REBAR IS CARRIED PAST THE BREAK A MIN. OF ONE SPLICE LEWITH. () MIN. COMPRESSIVE STRENGTH (INLESS OTHERWISE NOTED) TO BE:

-25 MPA

-Max, AGGREGATE SIZE - ¾. -AR ENTRAUM-ENT - 4%-7% (REMOVE AIR ENTRAIM-HENT ON ALL CONCRETE USED IN HEATED SPACES AND TO BE POWER TROMELLED) ) FOR CONCRETE DEPOSITED ON NATIVE SOIL, CEMENT SHALL BE SULPHATE RESISTANT (TYPE 50)

and unless otherwise specified, (Type 10) normal portland cement is to be used throughout

)) do not add water to concrete on site unless the Mix design has taken this into

Account and Water/Cenent Ratio Will Not be exceeded.

CONCRETE FLACED IN COLD WEATHER SHALL BE PROTECTED AND HEATED TO MAINTAIN 10" CELSIUS FOR A MIN. OF 2 DAYS

ATTER PLACENERT, REMOVE INSLATION AND NEATING GENERALLY TO AVOID THERMAL SHOCK. P) TAKE NECESSARY PRECALITONS TO PREVENT RAPD DRYING OF CONCRETE PLACED IN 401, DRY MEATHER. IF POSSIBLE PROVIDE COVER OR SHADMG, OR CLIRE WITH WATER.

6) SLOPE ALL FLOORS TO GRAINS WHERE FLOOR DRAINS PROVIDED.

H) VISRATE ALL CONCRETE TO CONSOLIDATE AND REMOVE VOIDS.

GENERAL NOTES AND SPECIFICATIONS CONTINUED

= 39.70 PSF 4,8 PSF
 3,00 PSF
 10,00 PSF
 10,00 PSF
 8,57 PSF
 8,57 PSF
 20,90 PSF A = SECTIONIDETAL NUMBER B = Originating Sheet Number C = Orawn on Sheet Number REQUIRED SOIL BEARING CAPACITY = 1500 PSF A = SECTIONDETAL NUMBER Originating and drawn on Same Page DESIGN LOAD SPEC. BY ENGINEER A = SECTIONIDETAIL NUMBER 8 = DRAWN ON SHEET NUMBER SHELTERED CONDITIONS GROUND SNOW LOAD COLLATERAL LOAD T/C DEAD LOAD B/C DEAD LOAD d) SPLICES TO BE OFFSET A MANKAM OF THE SALKE LENGTH BETWEEN CONSECUTIVE ROWS AND NOT REFEATED UNTIL EVERY JAR NOM. 5) REINFORCING STEEL SMALL BE FREE FROM LOOSE RIGT, MUD, OIL OR OTHER CONTINGS WHICH MAY REDUCE THE BOND OR MARM THE CONCRETE. 9) REINFORCING STEEL SMALL BE FRED IN PLACE & TIED WITH PROFER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, THES, ETC. SLIPLIED BY THE B/C LIVE LOAD RIND LOAD 000 RAIN LOAD ح 500 <u>19</u> 🛎 6) EXPOSED STEEL SMALL BE PAINTED WITH ONE COAT OF RED OXIDE PRIMER AFTER MANING BEEN CLEMED TO SSPC-SP2. SHAPES INDICATED ON THE DRAWINGS. NO SUBSTITUTIONS IN GRADES OR SIZES ARE FERMITTED WITHOUT WRITTEN F) PROVIDE STIFFEDGER PLATES IN ALL BEAMS CONTINUOUS OVER SUFFORTS, HOLES ARE NOT PERMITTED IN THE TOP c) all yelding shall be performed in accordance with the latest edition of CSA Y59. All base and CAP b) STRUCTURAL STEEL CARDITIONS J) STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION e) provide temporary guing and bracing as necessary to provide stability for the whole structure C) MANE ACTIRER TO SUPPLY ALL RECESSARY HANGERS, BRACKETS ETC. FOR COMPLETE ROOF FRAMING SYSTEM 8) ALL STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF CANUCSA 640.21 - 350H TO SIZES AND A) ALL REINFORCING STEEL TO BE GRADE 400 HIGH BOND. DEFORMED BARS CONFORMING TO CSA 630.8. B) COMPLETE ROOF SYSTEM SUPPLIED BY MANIFACTURER, ALL WEB BRACING, CONNECTIONS PLATES SHALL BE FILLY WELDED TO COLUMNS. 9) STRUCTIVENE FASTENERS SHALL BE A325 BOLTS. ANCHOR BOLTS SHALL BE A301. ( -{ I ) MM07 (.{1) WH07 20MM ( P. ) 75MM ( 3" ) 50MM (2°) UNTIL DECKINGS AND PERMANENT BRACING ARE SECURED IN PLACE. B) ALL REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH CSA A23.1 6) CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS: - Formed concrete not in contact with soil or meather. - CONCRETE CAST IN DIRECT CONTACT WITH SONL: - FORMED CONCRETE IN CONTACT WITH SONL OR WEATHER-FLANGES UNLESS NOTED OTHERWISE ON THE DRAWINGS. AND FASTENING TO MANFACTURER SPECIFICATIONS. C) MINIMUM SUFFICE LENGTH OF BARS SHALL BE: APPROVAL OF SOUTH-MAN ENGINEERING A) ROOF PITCH AS SHOWN ON PLANS Service of Mullion 5) REINFORCING STEEL CONDITIONS REINFORCING STEEL SUFFLIER - BEANS & COLUMNS -IEH OR SMALLER -20M OR LARGER SLIAB & WALLS -OF CAN/CSA-SI6.1 7) TRUSS NOTES: 1 1 2 - 25 8-52-- 10M - 187





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APPENDIX F

Equipment Specifications

www.orient-biofuel.com

![](_page_54_Picture_1.jpeg)

Suite 1218, No.6 XI'An Road, Xuzhou City, Jiangsu Province, China, Tel. 86-516-82029972 Fax 86-516-82029977 Email: orient-biofuel02@tn-china.com

**INVOICE TO:** 

DATE: 01-Mar-12

**Greenwald Farms**  $\mathcal{L} \uparrow \mathcal{A}$ Box R.R. 3 Beausejour, Manitoba, Canada R0E 0C0 204-268-5093

PRO FORMA INVOICE #: 120301-2

ATTN: Ben Hofer (Hoferben@yahoo.ca)

<u>QTY</u>	<u>REF #</u>	DESCRIPTION	AMOUNT	TOTAL
1	SCREENING	Belt Conveyor & Rotary Screen	\$12,300.00	\$12,300.00
1	CRUSHING	Baler Crusher to grind Straw prior to pelletizing	\$86,290.00	\$86,290.00
1	DRYING	Screw Conveyors, Furnace & Rotary Drum Dryer	\$153,730.00	\$153,730.00
1	PELETIZING	Bucket Elevators, Conveyors & Pelletizing Machine	\$112,615.00	\$112,615.00
1	COOLING	Conveyors & Counter Flow Cooler	\$79,262.00	\$79,262.00
1	MISC	Miscellaneous, Hoist, Pump, Bearing, Screws	\$675.00	\$675.00
1	SPARES	1 Year Spare Parts Kit	\$27,514.00	\$27,514.00
1	CONTROL	General Electrical Control Panel	\$11,300.00	\$11,300.00
1	PALLET	Steel Shipping pallets (no fumigation of wood)	\$10,100.00	\$10,100.00
1	DESIGN	System Engineering and Planning	\$2,682.00	\$2,682.00
	DISCOUNT	Specially Negotiated Discount		-\$19,399.95

USD \$477,068.05

NOTE #1: Startup and Training Extra (Expenses paid by Customer plus \$100 per day per Engineer)

Shipping Terms: FOB Shanghai or Qingdao port.

Payment Terms: 50% Wire Transfer with order , 50% prior to Shipment (Upon factory Acceptance)

Delivery Term: 80 Days from receipt of Deposit

ATT. Unit 6 Dona

204-947-3306

#### Xuzhou Orient Industry Co., Ltd.

Website: http://www.orient-biofuel.com Tel: 0086 516 82029972

# MC 36 Pulse Dust Collector

Pulse Dust Collector is used for Metallurgy, Mining, Machinery, Cement, Pharmaceutical, Light Industry, Electric Power Industry and so on. It can collect drying and small non-fibrous dust.

1. Structure

It include five parts:

A. Upper Box: cover, outlet.

B. Middle Box: porous plate, skeleton, filter bags, air intakes, access door.

C. Lower Box: ash bucket, block plate, gray board.

D. Ash Discharge System: screw conveyor, ash discharge valve, reducer, motor and manual pumping plate.

E. Cleaning System: control instrument, electromagnetic pulse valve, air bag, blow tube.

2. working principle

The cleaning process: The control instrument under requirements issued a directive to each pulse, opening the valves in turn, and inject high pressure air to each filter bag in turn. The gas bag compressed air through the perforations of the blowing tube through the verturi tube into the filter bag, this the first wind. When the injection of high-speed air flow through the venturi, much more speed than the first wind goes into the bag, this is the second wind.

The first and second wind make the air bag contraction-expansion-contraction, the reverse effect from airflow can clean down the dust inside of the bag. When clean the bag, blowing high-pressure air successfully, and cleaning the air all the time.

#### 3. Parameter

When the blowing pressure is 0.7mpa, the injection period  $30\pm0.2$  seconds, the injection time is  $0.1\pm0.0$  seconds, the device resistance  $\triangle$  120mm water column, the other parameters are related as follows:

Speed of Filtration	m/s		2	2.5	3	3.5	4
Load $m^3/(hm^2)$	)		120	150	180	210	240
Inlet Concentration	g/ m³		≤15	≤11	≤8	≤5	≤3
De-dusting Efficier	ncy %		99.5	99.1	99.0	99.0	99.0
Air	Injectio	0.1s	0.0119	0.0119	0.0119	0.0119	0.0119
Consumption	n Time	0.2s	0.0284	0.0284	0.0284	0.0284	0.0284
m³/次							

1, De-dusting Efficiency data is based on the talc and clay powder.

# Xuzhou Orient Industry Co., Ltd.Website: <a href="http://www.orient-biofuel.com">http://www.orient-biofuel.com</a>Tel: 0086 516 82029972

#### Xuzhou Orient Industry Co., Ltd.

Website: http://www.orient-biofuel.com Tel: 0086 516 82029972

## XCL- Series Cyclone and TGF-Series Air Lock

XCL Series Cyclone, the inlet adopts 270° volute oblique floor, the air inlet cross-section is small and square, pyramidal longer. It includes volute, spiral helical back plane, cone and anti-drag exhaust tubes. It collect particle size about 5µm. It is used for Metallurgy, Mining, Machinery, Cement, Pharmaceutical, Light Industry, Electric Power Industry and so on. It can collect drying and small non-fibrous dust.

1. Working Principle

XCL Series Cyclone principle: the gas with dust goes into the volute tangentially, the airflow spin into cyclone and the dust will go down along the shell by gravity centrifugation, the air lock will discharge dust in timing. The purified gas will go out from upper vent.

	Model	Weight		Blov	v Flow Spe	ed of inlet	(m/s)	
		(KG)	18	20	22	24	26	28
Air	XCL600	140	1350	1500	1650	1800	1940	2080
Quantity	XCL900	300	3020	3360	3700	4040	4370	4700
(m <sup>3</sup> /h)	XCL1000	470	3740	4150	4580	5000	5400	5840
	XCL1200	660	5380	5980	6540	7150	7780	8380
Resistance	Turning	g vane	539	677	873	971	1137	1313
(Pa)	No Turni	ng vane	677	833	1010	1200	1411	1637
Efficiency	Φ200-Φ80	)0	90	92	93	93.5	95	95.81
(%)								

#### 2. Parameter

3. Installation Drawing

![](_page_57_Figure_9.jpeg)

Xuzhou Orient Industry Co., Ltd.Website: <a href="http://www.orient-biofuel.com">http://www.orient-biofuel.com</a>Tel: 0086 Tel: 0086 516 82029972

## TGF-Series Air Lock

1. Parameter

Measure/ Model	A	В	С	L	н	D1	D2	D3	b1	b2	h	М	N	n - @d
9L	250	190	275	255	190	190	260	235	740	360	460	200	220	4 - @9
12L	270	210	310	275	205	210	270	230	780	380	510	220	240	6 - @11
15L	310	250	340	320	225	250	320	300	840	410	550	260	280	6 - @11
20L	345	270	390	320	225	240	320	280	860	410	550	260	260	6 - @11

2. Installation Drawing

![](_page_58_Figure_6.jpeg)

Address: Room1218, Xi' an North Road. Xuzhou, Jiangsu, PRC

# Xuzhou Orient Industry Co., Ltd.Website: <a href="http://www.orient-biofuel.com">http://www.orient-biofuel.com</a>Tel: 0086

Tel: 0086 516 82029972

![](_page_59_Figure_3.jpeg)

Website: http://www.orient-biofuel.com Tel: 0086 516 82029972

The Drawing of installation Cyclone and Air Lock

![](_page_60_Figure_3.jpeg)

## Xuzhou Orient Industry Co., Ltd.

Website: http://www.orient-biofuel.com Tel: 0086 516 82029972

### High Pressure Blower

The High Pressure Blower are widely used for convey materials, air and non-sticky substance.

The structure include impeller, casing, air inlet and frame.

1. Parameter

Model	Kind of	Rotate	Full	Quantity	Internal	Internal	Applied	Motor	
	Drive	Speed	Pressure	of Flow	Efficiency	Power	Power	Model	Power
		(r/min)	(Pa)	$(m^{3}/h)$	(%)	kw	kw		
Y4-72-4	Α	2900	4580	1838	77.3	2.98	3.6	Y112	4

Model	Kind of	Rotate	Full	Quantity	Internal	Internal	Applied	Motor	
	Drive	Speed	Pressure	of Flow	Efficiency	Power	Power	Model	Power
		(r/min)	(Pa)	$(m^{3}/h)$	(%)	kw	kw		
Y5-47-15	D	1450	4632	6572	78.2	10.63	12.5	Y160	15

Model	Kind of	Rotate	Full	Quantity	Internal	Internal	Applied	Motor	
	Drive	Speed	Pressure	of Flow	Efficiency	Power	Power	Model	Power
		(r/min)	(Pa)	$(m^{3}/h)$	(%)	kw	kw		
Y5-47-30	D	1450	5891	9445	81.5	18.59	21.8	Y200	30

2. Installation Drawing

![](_page_61_Figure_10.jpeg)

Address: Room1218, Xi' an North Road. Xuzhou, Jiangsu, PRC

# Xuzhou Orient Industry Co., Ltd.Website: <a href="http://www.orient-biofuel.com">http://www.orient-biofuel.com</a>Tel: 0086

Tel: 0086 516 82029972

![](_page_62_Figure_3.jpeg)

**APPENDIX G** 

Public Hearing Minutes

#### MINUTES OF THE REGULAR MEETING OF COUNCIL OF THE RURAL MUNICIPALITY OF ALEXANDER HELD IN THE COUNCIL CHAMBERS IN ST. GEORGES, MANITOBA ON TUESDAY, FEBRUARY 14<sup>th</sup>, 2012 AT 10:00 A.M.

Council Members:		Reeve: Councillor:	Ed Arnold Cheryhl Corrie Alvin Yosyk Kim Robertson Mac Kinghorn			
		CAO: Assistant CAO:	Scott Spicer Michele Stefaniuk			
1. Call th a)	ne Meeting to Approval of A	Order Agenda				
#78/12	Moved by: A Seconded by:	lvin Yosyk Mac Kinghorn				
	BE IT RESOLVED that the Agenda of February 14 <sup>th</sup> , 2012 Council Meeting be adopted as presented.					
			(CARRED)			
<ul> <li>Approval of Minutes         <ul> <li>a) Minutes of the Regular Meeting of Council dated January 31<sup>th</sup>, 2012</li> </ul> </li> </ul>						
#79/12	Moved by: K Seconded by	im Robertson : Cheryhl Corrie				
	BE IT RESO	BE IT RESOLVED that the Minutes of the January 31st, 2012 Regular Meeting				
	Council be a	(CARRIED)				
b)	Minutes of th	ne Council Committee	Meeting dated January 31 <sup>st</sup> , 2012			
#80/12	Moved by: A Seconded by	lvin Yosyk : Mac Kinghorn				
	BE IT RESO	LVED that the Minute	es of the January 31 <sup>st</sup> , 2012 Council Committee			
	Meeting be adopted as presented. (		(CARRIED)			
c)	Minutes of the January 17th,	ne Joint Meeting with 1 2012.	he Town of Powerview-Pine Falls dated			
#81/12	Moved by: C Seconded by	heryhl Corrie : Alvin Yosyk				
	BE IT RESC the Town of	LVED that the Minute Powerview-Pine Falls	es of the January 17 <sup>th</sup> , 2012 Joint Meeting with be adopted as presented. (CARRIED)			
3. Variations						
4. Delegations						
5 Public Hearings 11:00 a m						
5. X UDIA	Conditional	Lice _ 47001 Steed D.4	97 N - Greenwald Colony Farme I td 13 3			
a)	Conumonal	<u>Use - 47001 Sicau Ku</u>	77 Groenward Corony Family Edu 1933			

The notices were mailed out and all requirements of The Planning Act were met.

The proponent was in attendance in favour of the application and made a presentation to Council. Four others attended in favour of the application. Orris Sinavich appeared for information. One written objection was received.

٠	Ben Hofer, representing Greenwald Colony Farms Ltd., appeared before
	Council to make a presentation regarding the proposed Biomass Pelleting
	Plant. The Greenwald Colony, as well as Brightstone, and some other
	colonies are required to convert from coal to another source of heat by 2015.
	The current proposal is for two colonies use only. Perhaps in the future there
	may be a request for expansion; however any future expansion would require
	another conditional use.

#82/12 Moved by: Cheryhl Corrie Seconded by: Kim Robertson

WHEREAS a Public Hearing has been held in reference to an application for a Conditional Use Permit by the owner Greenwald Colony Farms Ltd:

Roll No. 20000 - 47001 Stead Rd 97N - NW 1-17-8 EPM

THEREFORE BE IT RESOLVED that the request to allow for the construction of a Biomass Pelleting Plant to extract peat moss on site and produce peat moss Pellets, under Zoning By-Law 08/98 be approved on the condition that:

- Prior to obtaining any building permits the owner is required to present a business plan to MB Conservation for approval;
- 2) That the applicant obtains all necessary permits;
- 3) That the operation be for Greenwald and Brightstone colony use and supply only.

(CARRIED)

6 6		an an dan aa	
0. 00	a)	<ul> <li>MB Courts Division - Online Payment Service</li> <li>Received as Information</li> </ul>	3.1.1.a
	b)	<ul> <li><u>MB Local Government – Total Municipal Assessment</u></li> <li>Received as Information</li> </ul>	3.1.1.a/14.1
	c)	<ul> <li><u>AMM – WestJet Petition – Service to and from Brandon</u></li> <li>Received as Information</li> </ul>	3.1.2.c
	d)	AMM News Release – Support for Infrastructure Funding <ul> <li>Received as Information</li> </ul>	3.1.2.c
	e)	MMSM – 2012 Municipal Payment • Received as Information	10.5
	f)	Town of Powerview-Pine Falls - Public Hearing • Received as Information	3.1.1.0
	g)	<u>LdB Clipper – New Office in L</u> dB • Received as Information	3.1.2.a
7. Co	mn	nittee/Administrative Reports	
	a)	Legislative and Finance	
	,	<ol> <li><u>Approval of Accounts</u></li> <li>i. General Cheques</li> </ol>	
#83/12		Moved by: Alvin Yosyk Seconded by: Cheryhl Corrie	
		WHEREAS the General Cheques for the Rural Municipality of Al- period ending February 14, 2012, have been examined and found t	exander, for the o be in order;