

# OlyWest Environmental Assessment OPEN HOUSE

Earth Tech invites you to an Open House to present the findings of the Environmental Assessment for the proposed OlyWest food processing facility in Winnipeg.

**Wednesday, August 16, 2006**  
12 p.m. to 9 p.m.  
Oxford Heights Community Club  
359 Dowling Avenue East in Transcona

The Open House is part of the public consultation process for the OlyWest Environmental Assessment.



A **tyco** International Ltd. Company

[www.olywestea.org](http://www.olywestea.org)

# OlyWest Project Open House



 Celebrating 100 years  
in Canada  
 **EarthTech**  
A **tyco** International Ltd. Company

August 16, 2006



**OlyWest**   
Leadership with Vision



# Earth Tech

- Industry leader and global engineering provider of environmental, construction, infrastructure development, and facility operation services
- Extensive experience in environmental assessment and licensing of some of the largest recent industrial projects in the Manitoba region including:
  - Maple Leaf Meats Pork Processing Plant and the City of Brandon's Industrial Waste Water Treatment Facility (IWWTF)
  - Ranchers Choice Beef Coop Ltd. Beef Processing Plant and the City of Dauphin's IWWTF
  - Simplot's Potato Processing Plant and the City of Portage La Prairie's IWWTF

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## Purpose of Open House #2

- Public Consultation is an important step in the Environmental Assessment process
- Present the findings of the Environmental Assessment of the proposed OlyWest pork processing facility
- Gain insight into other public concerns as a result of your comments

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in Canada

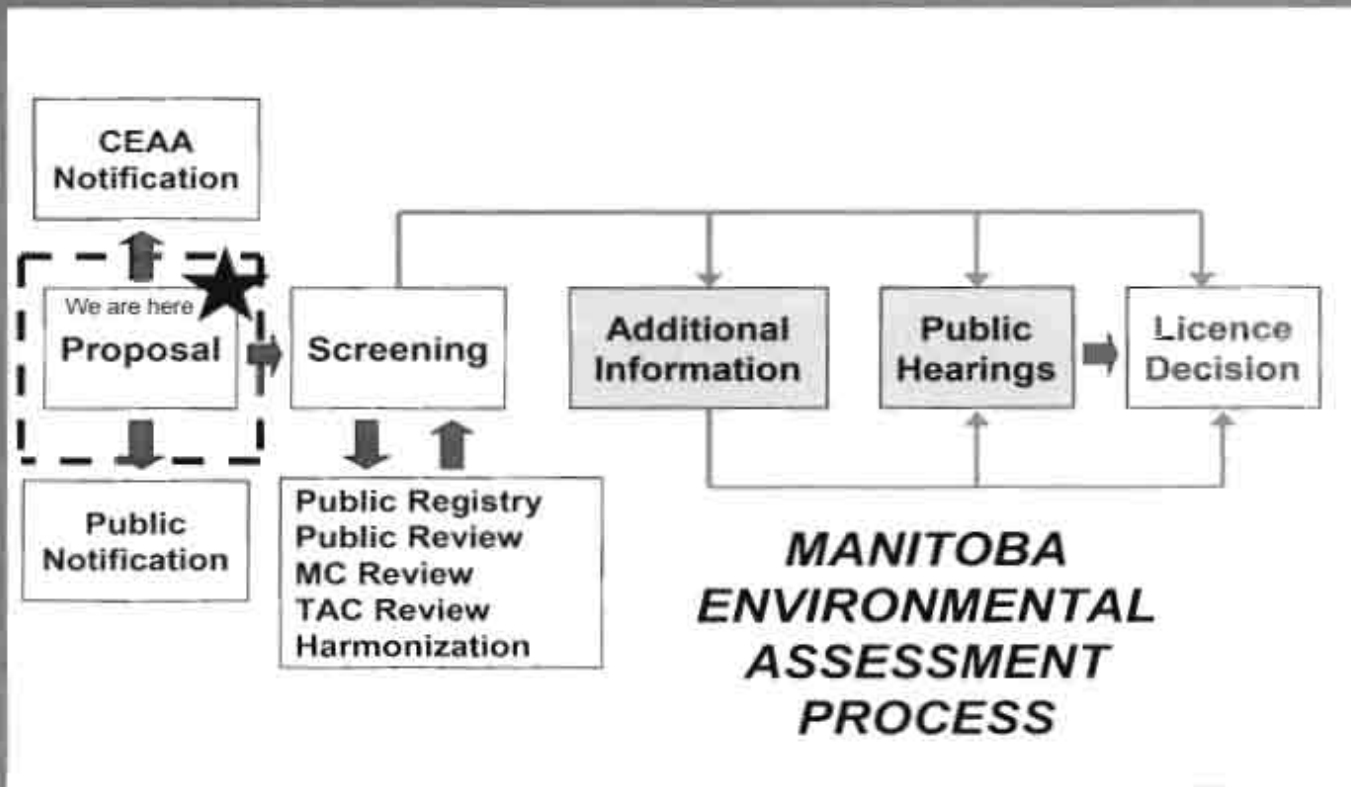
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# Environmental Assessment Process



- Earth Tech is currently finalizing their Environmental Assessment which will be placed on the Public Registry for comments
- After a government and public review period, Clean Environment Commission (CEC) hearings will take place
- The CEC hearings will result in recommendations to the Minister of Conservation
- The Minister may accept or override the CEC recommendations
- Following the Minister's decision, there is a 30 day appeal period

Celebrating 50 Years  
in Canada

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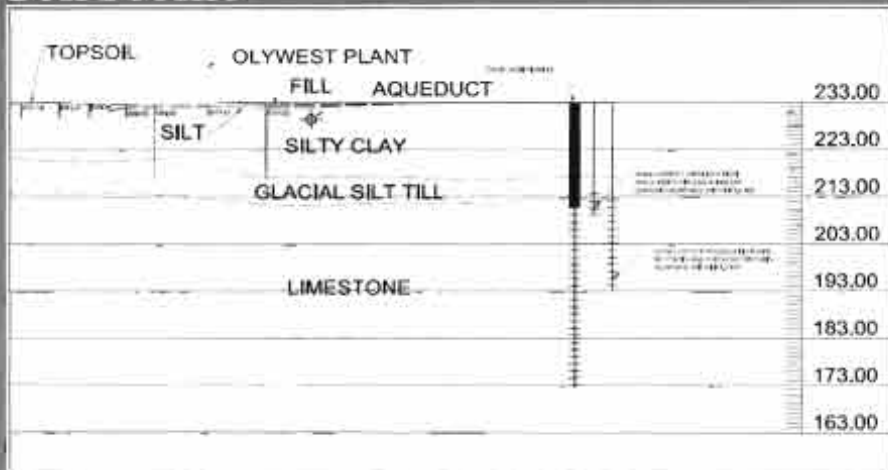
# Site Location



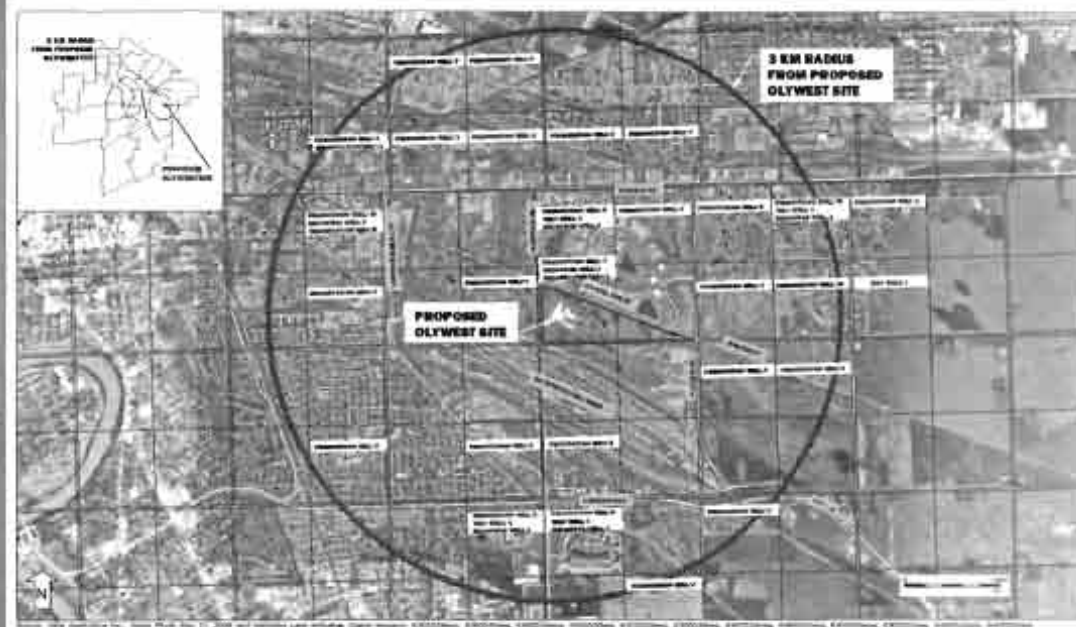
Source: ABE Electronics Inc., Aerial Photo May 11, 2005

# Site Considerations

## Soil Profile



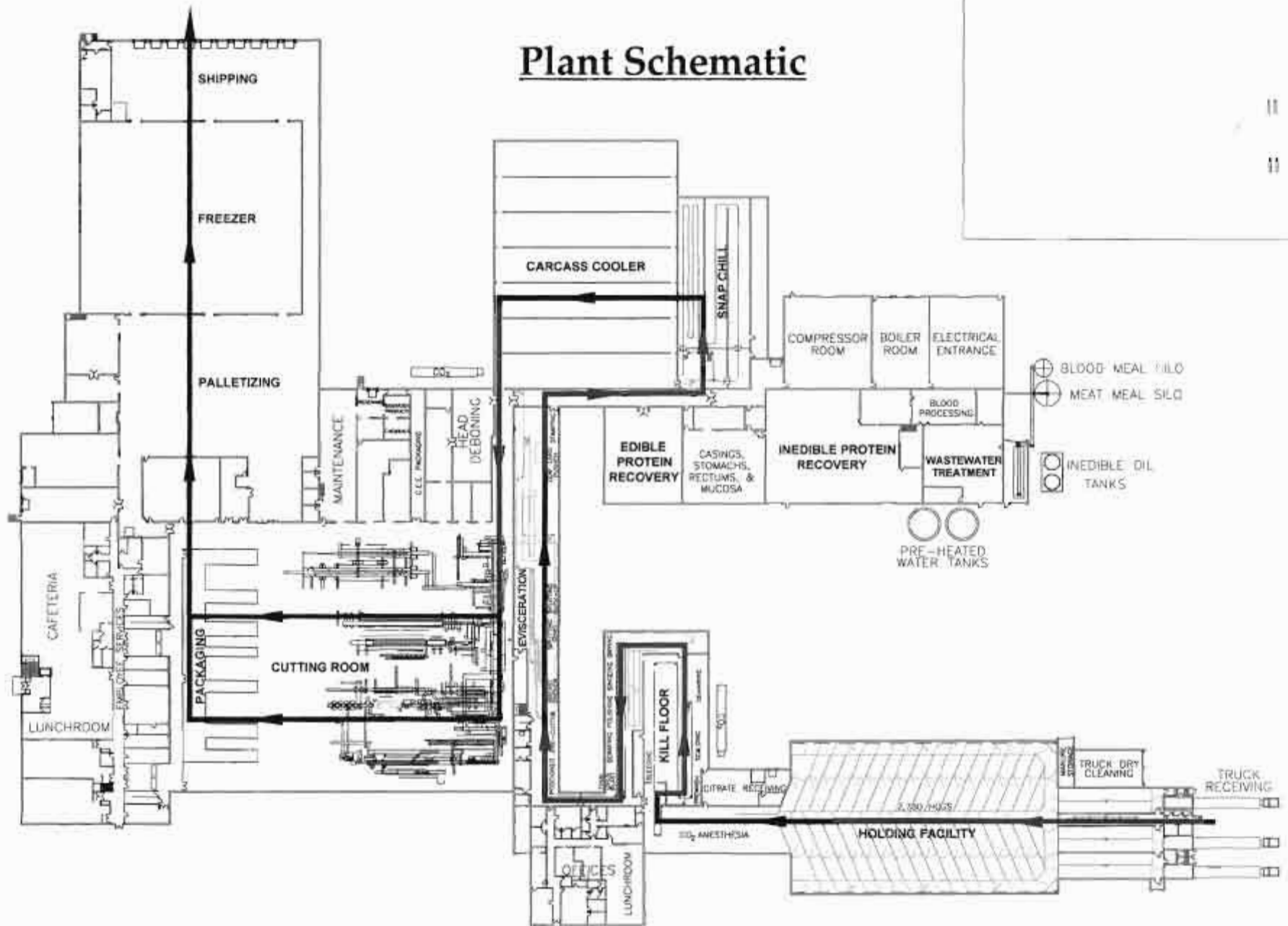
## Extent of Groundwater Use



- Groundwater protection
  - Structural slab of hardened concrete in holding pens and structural concrete tank for wastewater equalization
  - Concrete design is similar that of water reservoirs
  - Clay limits downward penetration of contaminants
- Archaeology
  - Site surveyed by qualified Archaeologist. Pre-European utilization of the area would have been minimal
  - No artifacts were encountered during investigation

- Terrestrial Biology
  - No rare or endangered species encountered on the site
  - Some transient and common species of animals present
  - Numerous plant species noted but not considered rare

# Plant Schematic







# Contingency Planning and Accident Prevention

- Malfunction of Process Equipment & Emission Control Equipment
  - Spare parts available onsite
  - Protein recycling operations will stop if there is a malfunction of emission control equipment
- Malfunction of Wastewater Pre-treatment System
  - Turbidity meter will detect changes in effluent quality
  - Majority of equipment is installed in duplicate
  - Wastewater can be stored in equalization basin until repairs are complete
- Fire
  - Fire loop installed around building with fire hydrants
  - Sprinklers installed within building where necessary
- Unplanned Disruption of City of Winnipeg Sewage Line Use
  - Operations will be shut down
- Extended Protein Recycling Facility Disruption
  - By-products generated will be transported off-site to an alternate rendering service provider for processing
- Accident Prevention
  - Good housekeeping in all areas of the facility
  - Regular inspections => employees, customers, CFIA, veterinarians
  - Employee training
  - Warm up exercises and rest breaks



# Environmental Assessment Findings

- General Categories of Potential Impact Examined:

- Air
- Groundwater
- Surface Water
- Soils
- Heritage Resources
- Land Use
- Natural Resource Use
- Traffic
- Environmental Health
- Socio-Economic

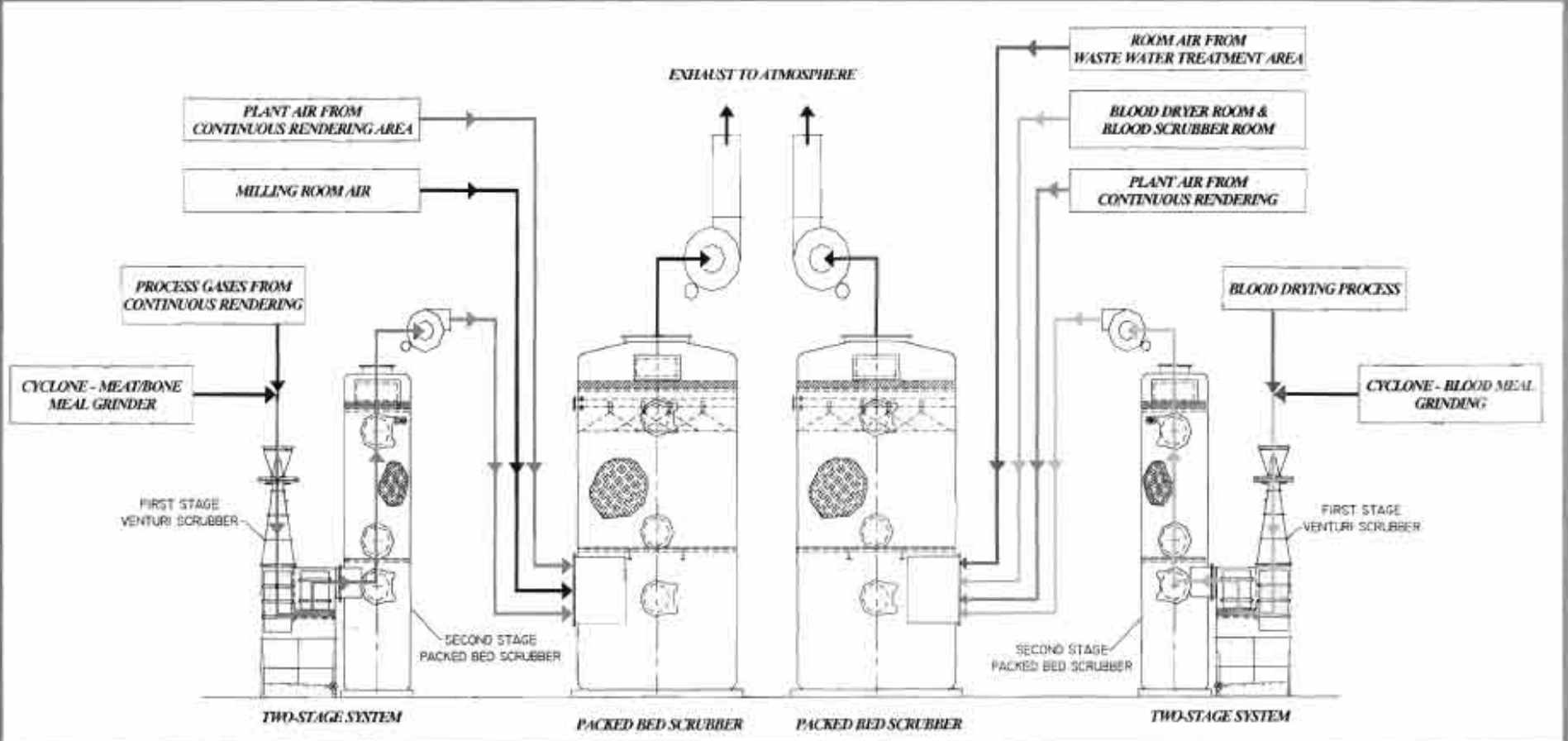


- Activities and Processes Identified to have Potentially Significant Effects are Mitigated:

- Construction activities – equipment and construction noise – mitigation is to keep vehicles well maintained and to operate only during appropriate hours
- Construction activities – increase in immediate site traffic – mitigation is to utilize construction signing
- Operation stage – odour emissions – mitigation site location, multi-stage air emission controls, waste management plan
- Operation stage – surface water: flooding from runoff – mitigation is to design and construct a retention pond
- Operation stage – nitrogen and phosphorus loads to Red River and Lake Winnipeg – mitigation North End plant will remove additional nitrogen to compensate for OlyWest load, pre-treatment will remove phosphorus load
- Operation stage – traffic patterns – mitigation is to restrict hog delivery vehicles to Plessis Road, site location, shift schedules largely avoid peak hours

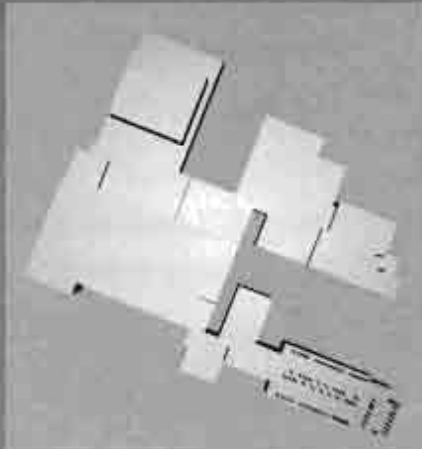


# Odour Control Technology





# Odour Evaluation



Odour source locations



Odour sampling at a representative hog holding facility

- Samples were collected from hog trucks and holding facility exhaust
- Third party laboratory determined sample concentration using trained assessors that must meet quality control requirements
- Protein recycling facility emission data obtained from manufacturer of multi-stage scrubbing system



Odour sampling at a representative hog truck

Odour samples were tested at a third party laboratory using an olfactometer

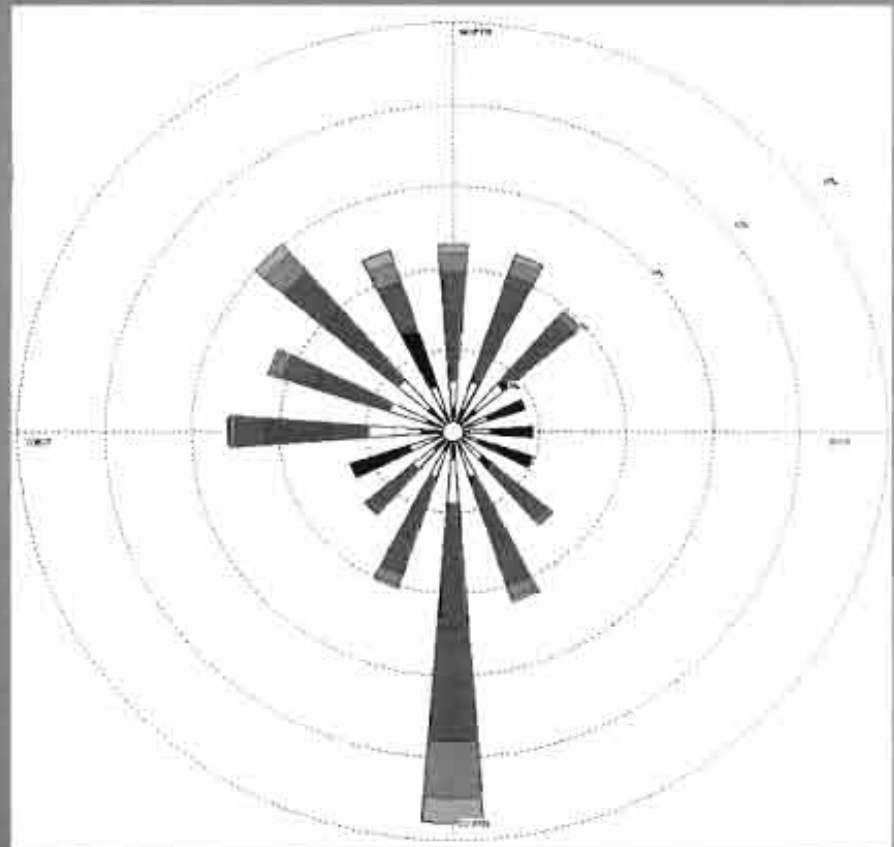




# Odour Modeling

Odour Source of Concern	Data Source
In-bound hog trucks	Representative Hytek hog truck en-route to existing processor
Holding pens	Representative hog pen at existing Olymel facility (St. Valerien de Milton, Quebec)
Truck bedding material/manure solids storage area	Representative area at existing Olymel facility (St. Valerien de Milton, Quebec)
Protein recycling area	Vendor information from SCP Controls
Wastewater pre-treatment area	Vendor information from SCP Controls

- Modeling completed using Manitoba Conservation *Draft Dispersion Modeling Protocol*
- US EPA dispersion model used
- Inputs: five years of hourly Winnipeg Airport weather data
  - temperature, pressure, humidity, wind speed, wind direction, etc.
- 65 stacks, 4 trucks, 2 protein recycling scrubber stacks
- 964 modeled points including:
  - 32 residences on Plessis Road and Springs Church





# Odour Modeling Results Summary

Distance from centre of source (km)	Total with detectable odour concentration	
	Hours (out of 5 yrs)	Receptor
0 to 1	2045 (4.6%)	Industrial
1 to 1.4	32 (0.07%)	Industrial
1.4 to 2	10 (0.02%)	Residential
2 to 5	0	Residential

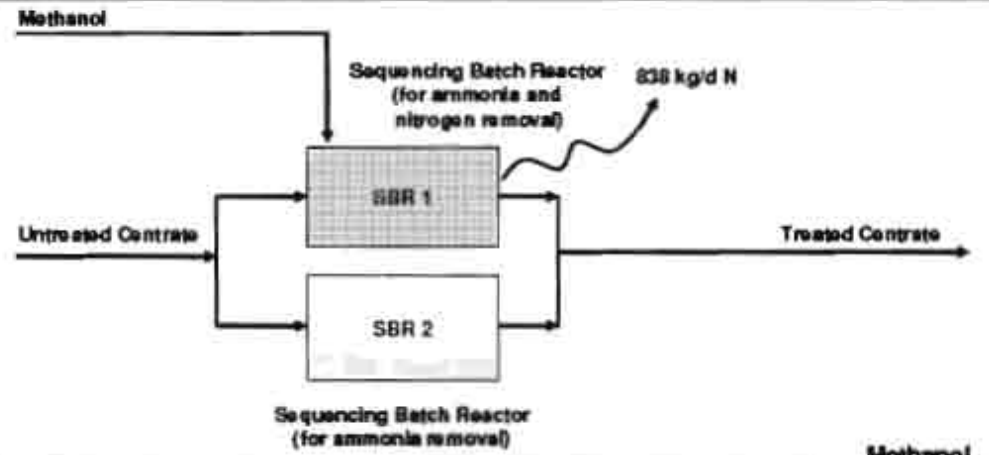
- No significant odour issues anticipated
- Odour will be governed by a nuisance clause in the Licence



Source: Atlas Geomatics Inc. Aerial Photo May 11, 2008



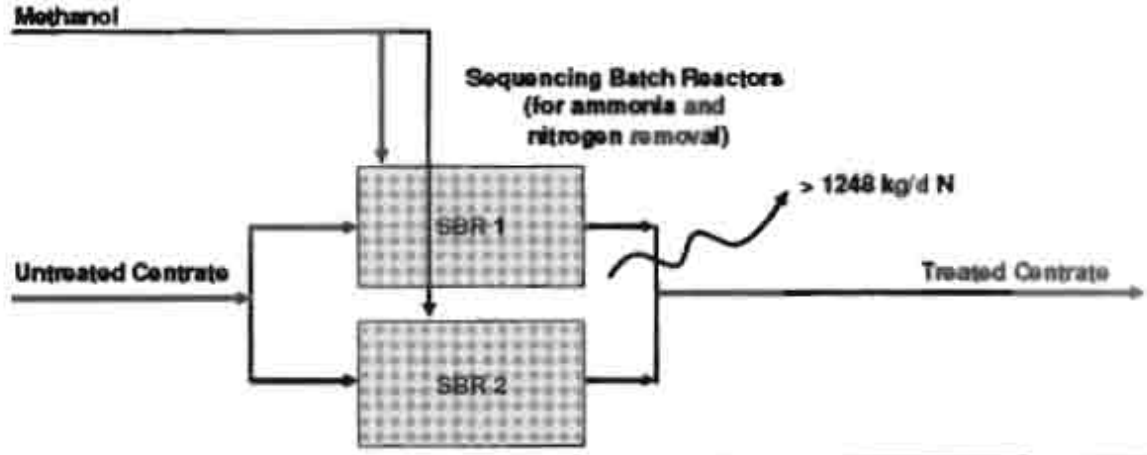
# Wastewater



- City of Winnipeg will increase the nitrogen removal capacity of the new centrate treatment system to compensate for the additional load from OlyWest
- Centrate treatment system will be completed in 2008
- OlyWest will begin to generate wastewater in 2009

## North End Plant Operation *without* OlyWest

- It is estimated that OlyWest will generate 410 kg/day of nitrogen in their wastewater when plant is operating at full production capacity
- Nearly all phosphorus will be removed during pre-treatment, remaining loads at the North End plant projected to be insignificant

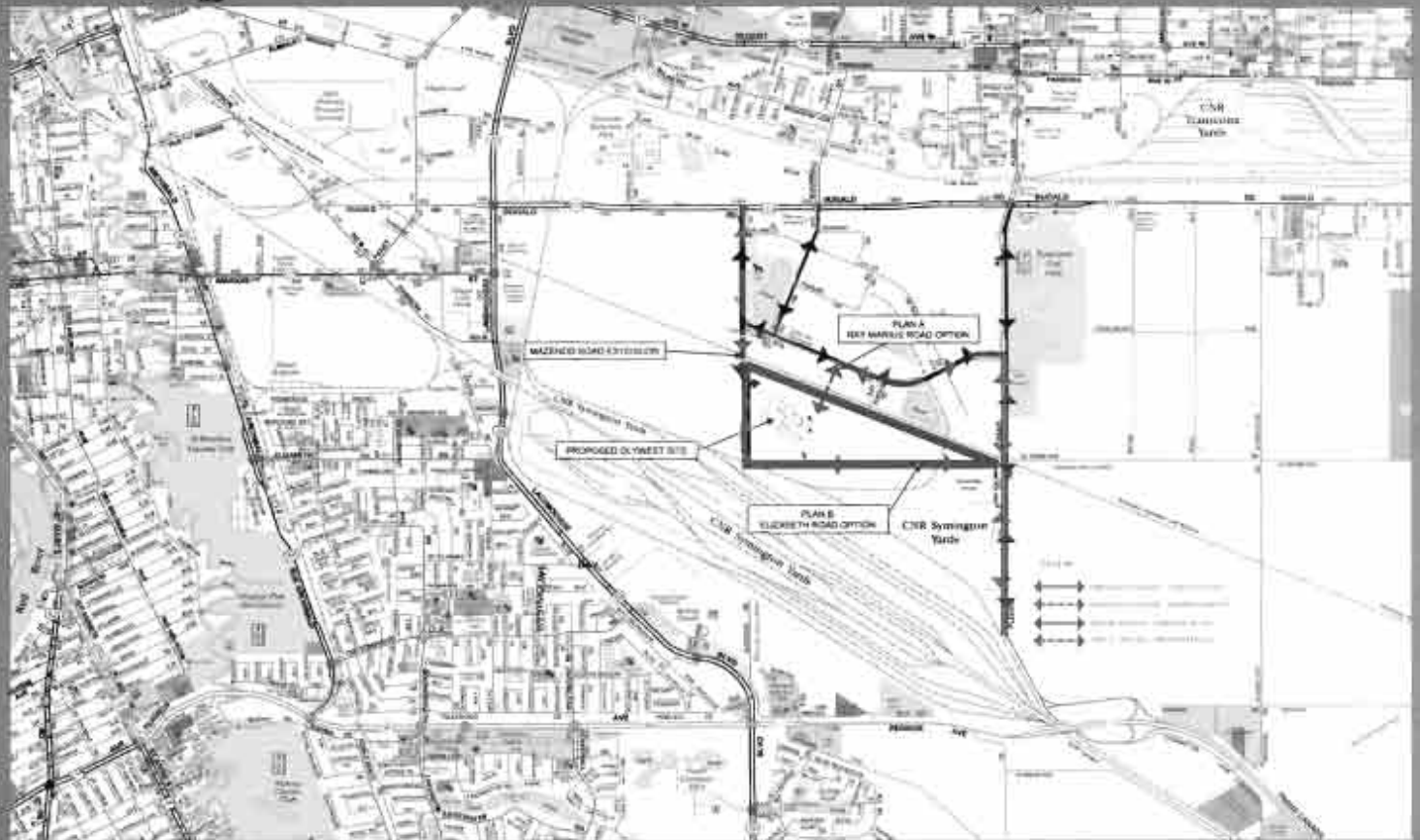


## North End Plant Operation *with* OlyWest



# 2011 Proposed Access Routes

- Total of 160 arriving and departing trucks per day (hogs, product, packaging)
- Majority of truck traffic entering and exiting at Plessis Road and Camiel Sys Street
- Estimated 42 incoming trucks per day carrying live hogs
- On average 2 - 4 incoming trucks per hour carrying live hogs
- Industrial transit service incorporated in traffic study



Source: Map © 2006 Shearock Publishing Ltd

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# Results from Open House #1


- 509 registered attendees
- 158 attendees completed a questionnaire
  - 128 had concerns about the OlyWest facility coming to Winnipeg
  - 26 were not concerned about the OlyWest facility coming to Winnipeg
  - 4 neutral or undecided
- Major issues identified at Open House #1 were:
  - Odour (91 comments)
  - Site Location (50 comments)
  - Traffic (41 comments)
  - Air/soil/water quality (34 comments)





# Website Feedback - [www.olywestea.org](http://www.olywestea.org)

- As of August 14, 2006, the OlyWest Environmental Assessment website has had 4,310 visits and over 70 feedback emails have been sent to Earth Tech
- Responses to emails have been provided where possible
- Example web-based comments and enquiries include:
  - “How do you plan to control / eliminate odours? How do you plan to control surface water runoff? How do you plan to protect ground water?”
  - “What and when will be the maximum daily peak and average water demand by the plant when it is operating at normal capacity? What and when will be the daily peak and average waste water production for the plant when operating at normal capacity?”
  - “I am excited that a large production company is hoping to build and operate within the city of Winnipeg. It will employ over 1000 people, providing decent paying jobs of all types to many citizens. Having worked in the industry in the past, I can comment with actual knowledge of the process.”
  - “Please provide details as to the amount of "intervener funding" that Olywest is providing to the Province of Manitoba, which will then be allocated to interveners by the Province of Manitoba. ”



# Comments and Questions

- The project team wants to hear from you
- Please take the time to complete a questionnaire and submit any comments on the forms provided

**Comments from Open House #2 – August 16, 2006 from Stations**

Issues and number of comments:

- **Monitoring / Prevention** \_\_\_\_\_ **Total 4**
  - 1 What is the depth of the deepest drill hole?
  - 1 Will there be any monitoring incorporated beneath the building and to the north of the building to detect any potential migration or infiltration of contaminants into the ground or near the aqueduct?
  - 1 Will there be a groundwater management or monitoring program and who will be designing, implementing, monitoring it, and will this information be provided to the public and the government and what enforcement measures are in place?
  - 1 Are there any protective casings around existing groundwater wells to protect from potential infiltration of contaminants?
  
- **Workforce/ Industry** \_\_\_\_\_ **Total 4**
  - 1 The Maple Leaf Plant in Brandon was rumoured to have a 100% employee turnaround in its first year. Is that the type of industry we want in Winnipeg?"
  - 1 Employee turnover, equal opportunity employment
  - 1 Dangerous working conditions
  - 1 Looking for employment for her sons
  
- **Aqueduct** \_\_\_\_\_ **Total 3**
  - 1 Is the aqueduct in good shape along the proposed site?
  - 1 How does the City of Winnipeg monitor its condition?
  - 1 What happens if problems are detected?
  
- **Drainage** \_\_\_\_\_ **Total 2**
  - 1 There is a low-lying area directly west of the site which, except in drought conditions, is always under water
  - 1 There is a poor drainage problem east of the St. Boniface Industrial park which involves the existing retention ponds, the ditch along Plessis Road, and the residential area directly to the east.
  
- **Traffic/ Transport** \_\_\_\_\_ **Total 2**
  - 1 Will OlyWest have special trucks to prevent cars and our roads being littered with hog urine and potentially hog manure?
  - 1 I came in concerned about the traffic.
  
- **Conflict of Interest** \_\_\_\_\_ **Total 2**

August 16, 2006 Open House #2 Comments

- 1 Did OlyWest have any another company complete an environmental assessment and the findings dismissed by OlyWest because they did not concur with their business goals?
- 1 How can we trust Earth Tech if they are paid by OlyWest to conduct the environmental assessment?
- **Location** \_\_\_\_\_ **Total 1**
  - 1 It's a great idea, just not inside the city. Take the City of Brandon as an example. The mayor has said that if he could do it again he would have built the plant even farther from the city, and as it is, the plant is already 5 km away.
- **Odour** \_\_\_\_\_ **Total 1**
  - 1 I came in concerned about the odour
- **Water** \_\_\_\_\_ **Total 1**
  - 1 Water pollution, main concern
- **Animal Welfare** \_\_\_\_\_ **Total 1**
  - 1 The treatment of the animals
- **Sustainability** \_\_\_\_\_ **Total 1**
  - 1 Is this sustainable development?
- **Impact Cost** \_\_\_\_\_ **Total 1**
  - 1 Who will pay for or take care of any costs associated with any impacts, especially any impacts to our water supply through the aqueduct?
- **Website** \_\_\_\_\_ **Total 1**
  - 1 Presentation on website is not very legible when printed.
- **General** \_\_\_\_\_ **Total 11**
  - 1 Very informative. We really enjoyed it.
  - 1 Very good presentation. Sufficient information. Story boards and videos are an excellent idea and were highly informative.
  - 1 All of my concerns were addressed; I have no further comments/ questions.
  - 1 Beautifully done, beautiful presentation.
  - 1 I have no issue with it.
  - 1 I'm all for it. The amount of information available was amazing. There is a great deal to learn here. Good job.
  - 1 Well laid out. Very nice.

August 16, 2006 Open House #2 Comments

1 It's great & I'm all for it. The people were extremely knowledgeable. The people complaining about it haven't got the facts.

1 All of my concerns have been addressed.

1 Bullsh\*t

1 After what I've seen and heard here today, I'm still concerned but I would vote for it if it came to that.

**PROPOSED OLYWEST PROJECT**  
**ENVIRONMENTAL ASSESSMENT OPEN HOUSE**

Oxford Heights Community Club  
359 Dowling Ave. East, Winnipeg, MB

**August 16, 2006**

**QUESTIONNAIRE FOR ATTENDEES**  
**(Personal and Other Questions are Optional)**

Feel Free to Give Us Your Comments Without Your Name or Address

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

e-mail \_\_\_\_\_

Location: (Relative to Proposed Facility) \_\_\_\_\_  
\_\_\_\_\_

1) Did you attend the May 30, 2006 Open House?

Yes       No

2) Do you have any concerns about the proposed OlyWest pork processing facility coming to Winnipeg?

Yes       No

If so, what are your concerns about OlyWest?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3) Would you like someone from Earth Tech (Canada) Inc. to contact you?

Yes       No

If so, please leave contact information

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4) Did you find this Open House useful?

Yes       No



**Portes ouvertes concernant l'étude d'impact  
sur l'environnement du projet OlyWest**

Centre Communautaire Oxford Heights  
359, avenue Dowling est, Winnipeg, MB

**16 août 2006**

**Questionnaire des participants et des participantes**

Les questions personnelles sont facultatives. Soyez libres de nous faire part de vos remarques sans donner votre nom ou votre adresse.

Nom: \_\_\_\_\_ N° de téléphone: \_\_\_\_\_

Adresse: \_\_\_\_\_

Address électronique : \_\_\_\_\_

Lieu: (par rapport aux installations prévues) \_\_\_\_\_

1) Vous avez assisté, le 30 mai, 2006, la journée portes ouvertes?

Oui       Non

2) L'usine de transformation du porc que OlyWest se propose de construire à Winnipeg vous cause-t-elle des inquiétudes?

Oui       Non

Dans l'affirmative, quelles sont vos inquiétudes au sujet du projet OlyWest?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3) Aimeriez-vous que quelqu'un de Earth Tech (Canada) Inc. communique avec vous?

Oui       Non

Dans l'affirmative, laissez votre information

\_\_\_\_\_

\_\_\_\_\_

4) Avez-vous trouvé cette journée portes ouvertes utile?

Oui       Non



## OlyWest Project Open House #2 Questionnaire Summary

1)	Total number of people who attended the Open House (August 16, 2006) _____	254
2)	Number of people who completed the questionnaire _____	61
3)	Number of people who indicated they attended the first Open House (May 30, 2006) _____	33
4)	Number of people who indicated they were not concerned about OlyWest coming to Winnipeg _____	23
5)	Number of people who indicated they were concerned about OlyWest coming to Winnipeg _____	37
6)	List of concerns:	

○	<b>Odour</b> _____	<b>Total 24</b>
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- 2 think 'new technology' will not work like it is supposed to
- 1 wants a 'no smell' guarantee
- 1 thinks this is the largest problem
- 1 wants the plant to be 99% odour free
- 1 thinks there will be an impact
- 1 wants to know the total distance the smell will travel
- 1 thinks the 6' stack needs to increase to 600' for better dispersal
- 1 wants to know what is a significant odour
- 1 believes that hog odour is unacceptable due to the long term impact on health and wellness
- 14 general odour concerns expressed

○	<b>Traffic</b> _____	<b>Total 22</b>
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- 2 concern with truck traffic and congestion on Plessis & Dugald
- 2 think the trucks will be too close to residential
  - build southern access road
  - build a merge lane on west side of Plessis and a turn lane on east side of Plessis at Camiel Sys
- 2 concern about truck traffic
- 2 concern about traffic congestion
- 1 concern about increased traffic
  - employees, routes limited to Dugald/ Lagimodiere/ Regent/ Plessis.
- 1 concern about traffic on Plessis west bound to Fermor.
- 1 thinks outgoing traffic not addressed
- 1 thinks traffic will increase along Camiel Sys
- 1 wants to know how OlyWest plans on keeping trucks on the designated route
- 1 fears emission of urine and feces from trucks en route to Winnipeg

- 1 thinks there will be increased traffic & waste aerosols emitted into the air during hog transport to OlyWest processing plant.
- 7 general traffic concerns expressed

o **New Plant Location Wanted** \_\_\_\_\_ **Total 15**

- 2 want the plant to move outside the city
- 2 think the location is too close to residential, recreational, light industry, small business
  - 1 wants the plant to move to another area with similar odour and wastes (St. Boniface or near water treatment facilities), preferably outside city limits
  - 1 wants the plant built outside the city to qualify for provincial funding for infrastructure while not ruining thousands of people's lives
  - 1 thinks this is the wrong location as it will cause health and environmental problems; be bad for the city in a long run.
  - 1 wants to move the plant outside the city to isolate problems out there
  - 1 thinks it should be built further away from the city for the same reasons as Simplot and Brandon Maple Leaf
  - 1 believes other locations are available further from residential areas
  - 1 thinks it be built in the city to allow workers to travel by bus
  - 1 thinks it needs to be further from the aqueduct
  - 1 wants it built far outside the City (build a parking lot outside the city, and offer a shuttle bus to work, leave a choice for employees if they want to drive or bus to work)
- 2 general location concerns expressed

o **Water** \_\_\_\_\_ **Total 14**

- 3 want to know what is protecting the aqueduct
- 2 fear seepage into aqueduct polluting water
- 2 fears pollution from the plant affecting water
- 1 fears the quality of water will change
- 1 fears the consumption rate
- 1 fears the supply of water
- 1 wants to know the cost of water in 10 years
- 1 concern that Winnipeg does not have unlimited source of water (who pays cost of additional aqueduct etc. when required)
- 3 general water concerns expressed

o **OlyWest, and Their Promises and Practices** \_\_\_\_\_ **Total 5**

- 2 want employment (any way to pre-apply)
- 1 think they have no concern for nearby existing business
- 1 wants transparency on all activities concerning public
- 1 thinks paying Earth Tech may bring about conflict of interest