



PEACE RIVER REGIONAL DISTRICT
SOLID WASTE MANAGEMENT PLAN MONITORING
AND ADVISORY COMMITTEE MEETING

A G E N D A

for the meeting to be held on **Tuesday, January 19, 2016** in the
Regional District Office Boardroom 1981 Alaska Avenue,
Dawson Creek, BC, commencing at **10:00 a.m.**

Conference Call: 1-877-385-4099 Participant ID: 8464917#

1. **Call to Order:**
2. **Introductions:**
3. **Election of Meeting Chair:**
4. **Notice of New Business:**
5. **Topics for Discussion:**
 - Overview of the Committee Terms of Reference
 - Overview of the Regional Solid Waste Management Plan
6. **New Business:**
7. **Adjournment: (no later than 3:00 pm)**



PEACE RIVER REGIONAL DISTRICT

**Solid Waste Plan and Monitoring
Advisory Committee (PMAC)**

Status Update – January 2016

Solid Waste Management Plan



Part 1: Solid Waste Management Plan (SWMP)



Solid Waste Management Plan



- Every regional district is mandated by province to develop and follow a SWMP.
- Purpose is to create a sustainable, integrated waste management system with a focus on waste reduction and diversion from landfill.
- First Plan adopted in mid-1990s then amended in March, 2009 after extensive 2-year process of stakeholder and public consultations.
- Public Advisory, Technical Advisory & Plan Review Steering Committees guided the review process.

Solid Waste Management Plan



- Provides an MOE-approved roadmap for service improvements and solid waste operations over a 20-year timeframe.
- Plan is considered to be a “living document” that may be amended to reflect new considerations, technologies, and issues.
- Program alterations require MOE approval, Plan amendment and possible public and stakeholder consultations.
- All major components of Plan will be reviewed for appropriateness before implementation.

Goals and Guiding Principles



- Goals were established with targets for waste reduction based on amount of waste per capita disposed in landfills using 2006 rate as a baseline.
- Guiding principles established for implementing programs outlined in Plan:
 - Standardized services for rural and urban residents;
 - Pilot testing of programs prior to implementation;
 - Focus workable waste reduction and diversion initiatives on specific waste generation sectors;
 - Apply waste management according to the 5Rs
 - Incentive-based tip fees will be utilized to encourage waste reduction;
 - Preference given to programs that encourage extended producer responsibility under provincial stewardship plans;

The Plan Monitoring and Advisory Committee



GOAL OF THE COMMITTEE

- The Plan Monitoring & Advisory Committee (PMAC) will monitor the implementation and effectiveness of the Solid Waste Management Plan (Plan) for the Peace River Regional District (PRRD).

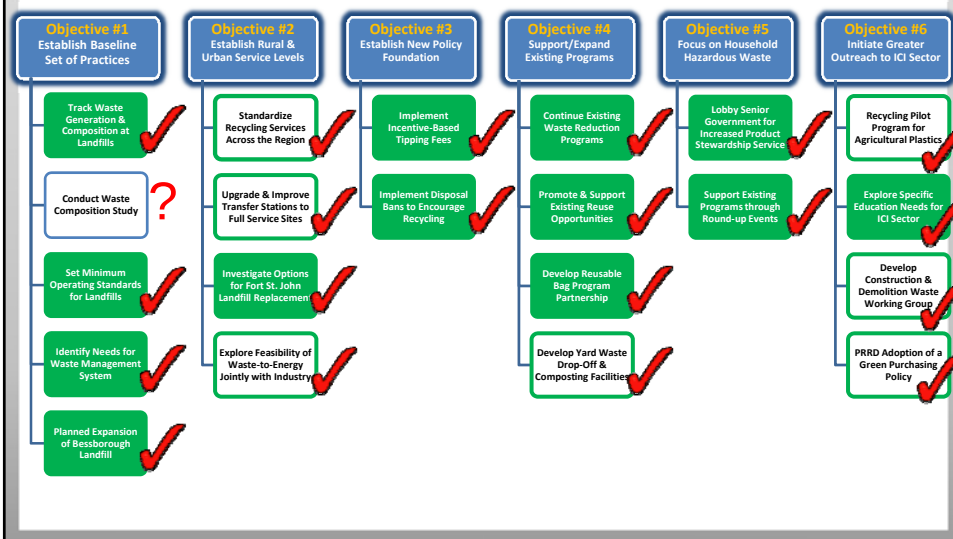
OBJECTIVES

- To review the status of the Plan as to objectives completed and tasks remaining.
- To identify concerns and issues that may arise in the Plan's ongoing implementation.
- To act as a "sounding board" for the PRRD to review results of pilot programs.
- To make suggestions regarding how programs should be implemented and provide those recommendations to the PRRD Committee of the Whole.
- Provide advice and feedback on consultation activities with the general public.

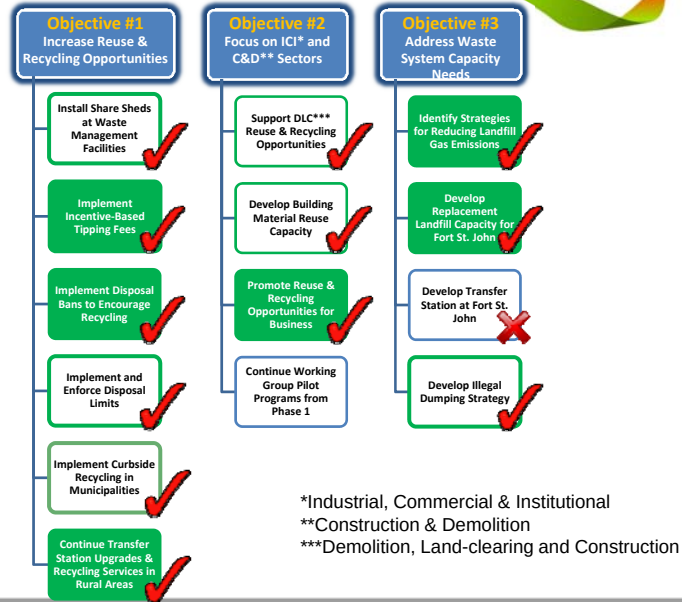
Plan Implementation Phases

- Plan implementation over 20 years in 4 overlapping phases
- Phase 1 – builds on existing programs and transitions towards more sweeping changes in future phases.
- Phase 2 – involves more significant changes to the waste management system, with a focus on increased recycling.
- Phase 3 – concentrates on long-term waste management options.
- Phase 4 – it is expected that more long-term waste management options will be formulated along with continued improvement of programs established in earlier phases. Undertaking another Plan amendment is likely at that point.

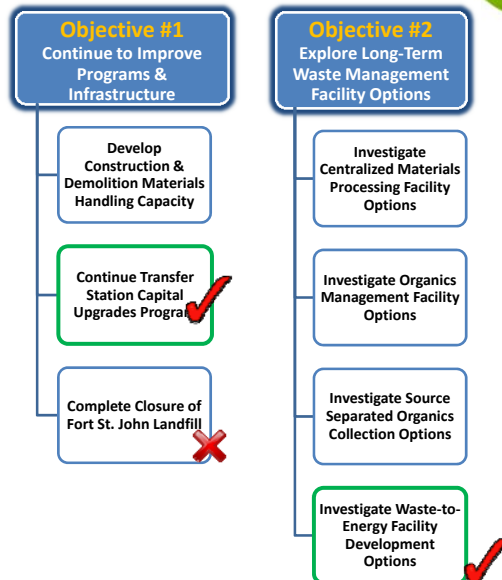
Phase 1 Objectives



Phase 2 Objectives



Phase 3 Objectives





Part 2: Operational Aspects

Review of Current System



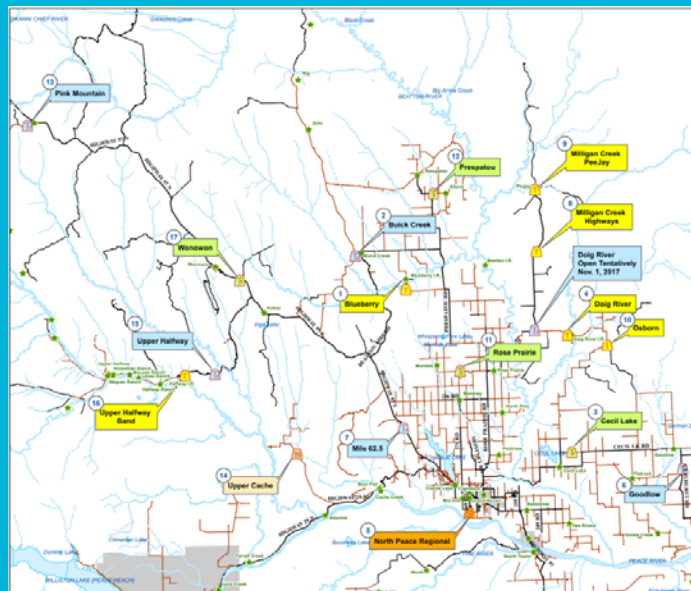
- A landfill engineering consultant reviewed our solid waste system in 2010.
- System is comprised of 4 main services:
 - transfer stations for collecting waste;
 - hauling to landfills/recycling facilities;
 - processing and shipping of recyclables to markets;
 - landfilling of residual waste.
- Cost-saving system optimizations were identified with respect to transfer stations (locations of new facilities and their design), waste hauling, as well as urban/rural recycling.

Transfer Sites

- As per the SWMP objective to upgrade the transfer station system, 39 unattended sites will be replaced with 20 manned facilities.
- At the current unmanned sites, 6 yard bins collect bagged household waste.
- Abuse is experienced through illegal dumping and disposal of prohibited waste.
- Spring clean-up bins and the coupon program have done little to alleviate the indiscriminant dumping problem.

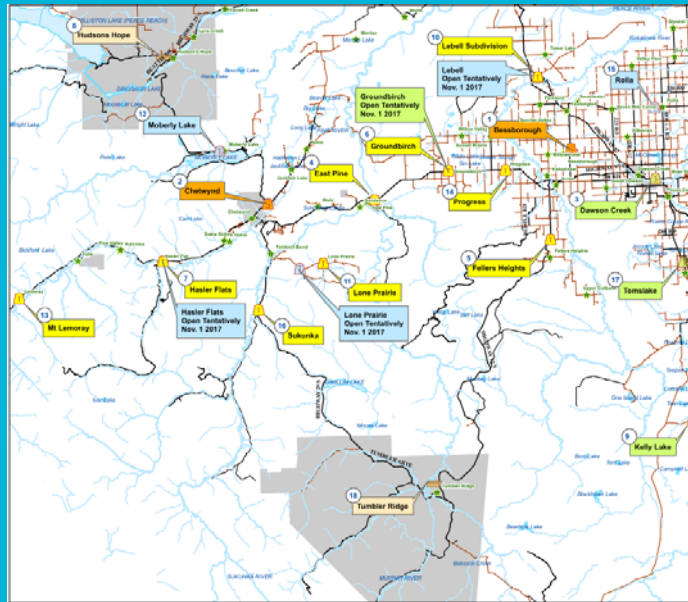


Solid Waste Sites – North Peace





Solid Waste Sites – South Peace



Public Abuse at Unmanned Transfer Stations





Public Abuse at Unmanned Transfer Stations



Recent post from the PRRD Facebook page

New Transfer Station Development

- Compactor/roll-off bins offer greatest cost savings due to lower frequency of waste hauling vs. current system.
- Tipping fees are charged at all transfer stations for all waste. Recyclable materials are free of charge.
- These sites provide opportunities to partner with stewardship programs to increase diversion
- 12 transfer stations have been constructed already, with 5 more scheduled for 2017 to complete the network.
 - Doig-Milligan, Lebell, Groundbirch, Lone Prairie, and Hasler Flats

New Transfer Stations

- Manned with operating hours
- Fenced and controlled
- **Tier 1:** Compactor bin for bagged household waste, 50 yd. roll-off containers for bulky material, wood, metal and recyclables. Possible future collection stewardship materials
- **Tier 2:** compactor bin for bagged household waste plus recycling.



Share Sheds

- A share shed is provided at all transfer stations to promote waste diversion and reuse of materials at no cost



Share Shed

Free to Leave ~ Free to Take

Please Share:

- Small Furniture & Household Accessories
- Small Power Tools/Parts
- Gardening Equipment
- Sporting Goods (skis, snowboards, snowshoes, hiking equipment, etc.)
- Camping Equipment
- Toys
- Books

Please Do Not Share:

- Electronics
- Clothing
- Beds, Mattresses & Hide-a-Way Couches
- Bulky, Oversized Items
- No Motorized Toys
- Items with Safety Standards (ie. car seats, cribs, etc.)
- Hazardous Waste



If you have items that are not accepted here, other options are thrift stores.
Fort St. John: ABC Thrift, Community Friendly Thrift or Salvation Army.
Dawson Creek: DC Secondhand Store, Mom's & Kid Stuff, or Salvation Army.

Compactor Bins

- For bagged household waste at both Tier 1 and Tier 2 sites
- Controls odour and wind scatter
- Reduces waste volume (~4:1) and hauling costs



Recycling Bins

- Used for MMBC materials that can be comingled
- Paper and Cardboard can be comingled
 - Printed Paper, Cardboard, Newspaper, etc.
- Containers can be comingled
 - Plastic, metals, and wet fibres (milk cartons, etc.)



Recycling Cages

- Developed for the implementation of the MMBC Program, as it expanded the products that we could take
- Now able to collect White Styrofoam, Coloured Styrofoam, Glass, and Plastic Film



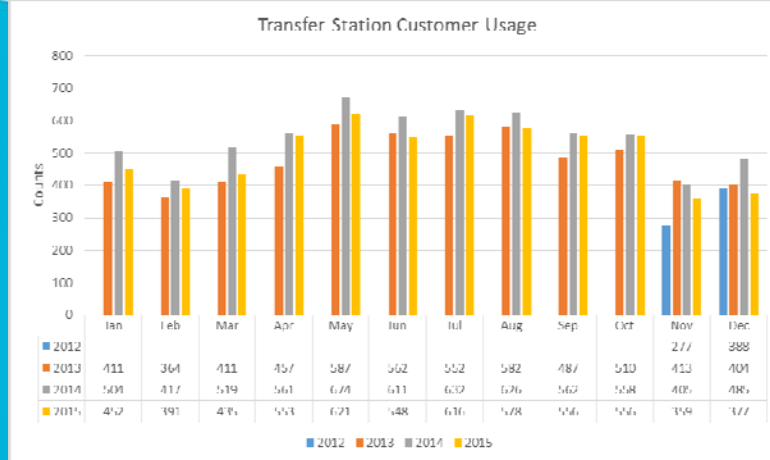
Roll-Off Bins

- For sorted bulky waste, metals and wood at Tier 1 sites only





Transfer Station Statistics

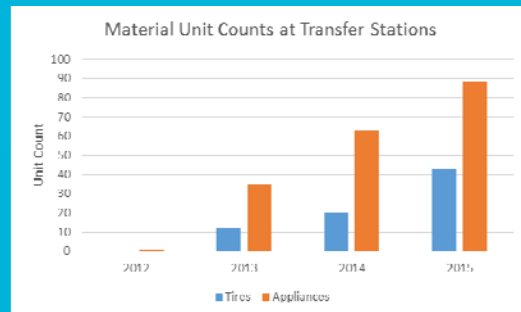
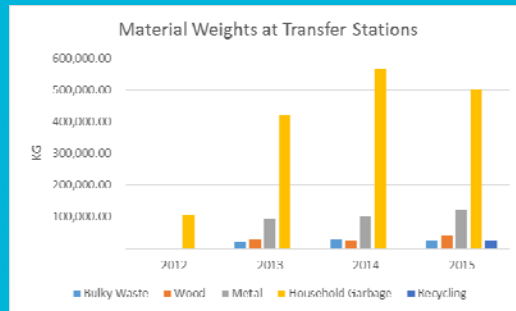


- As of 2015, over 19,000 customers have utilized the manned transfer stations



Transfer Station Statistics

In 2015, we collected over 24,800kg of PPP Recycling through the MMBC Program



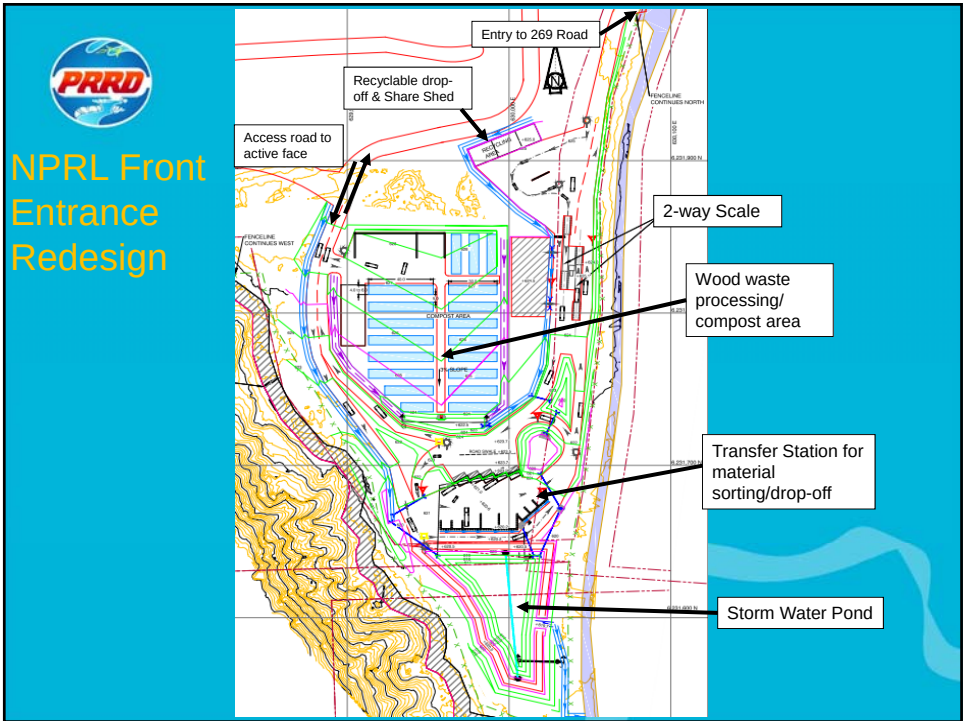
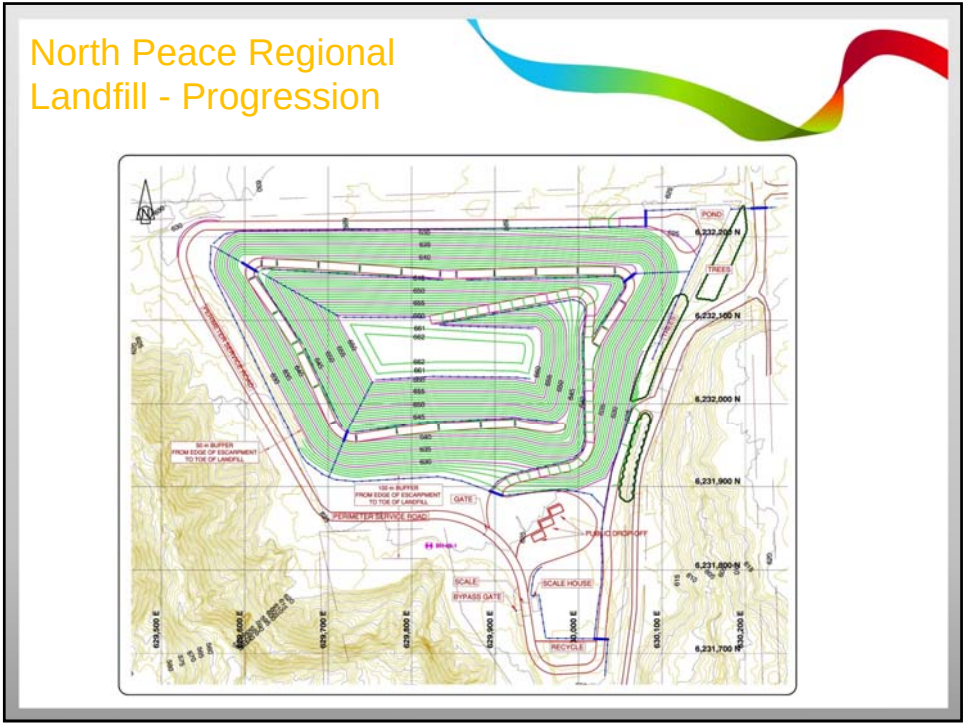
Landfills

- The Regional Districts Operates 3 Landfills:
 - Chetwynd
 - Bessborough
 - North Peace Regional Landfill (previously known as Fort St. John Landfill)

North Peace Regional Landfill

- Previous Board approved continued operations at existing site.
- New fill plan quantifies air space capacity extending lifespan to approximately 2050. With curbside recycling and further diversion this lifespan will be increased.
- In 2015, the Landfill Gas (LFG) System was Commissioned and a Storm Water Management System was constructed on the north side
- In 2016, front end of landfill to be reorganized to accommodate new fill plan, weigh facility will be relocated with new access roads, a dual in-out scale system, recycling, share shed area, and multi-material drop off area



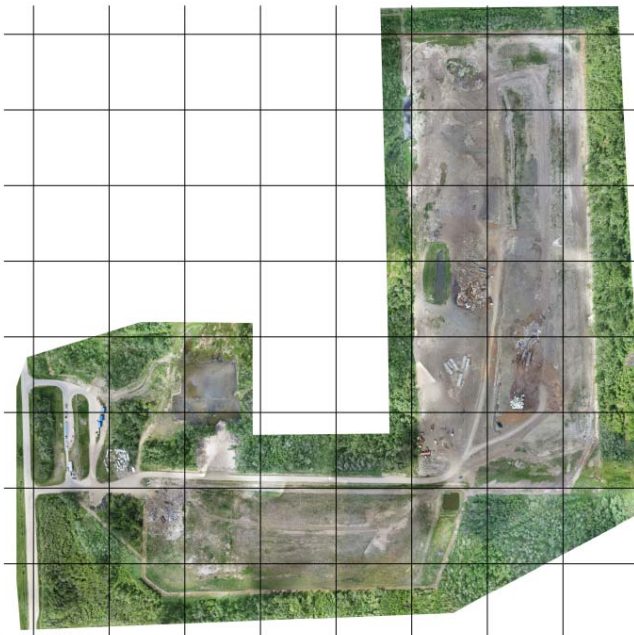


Bessborough Landfill

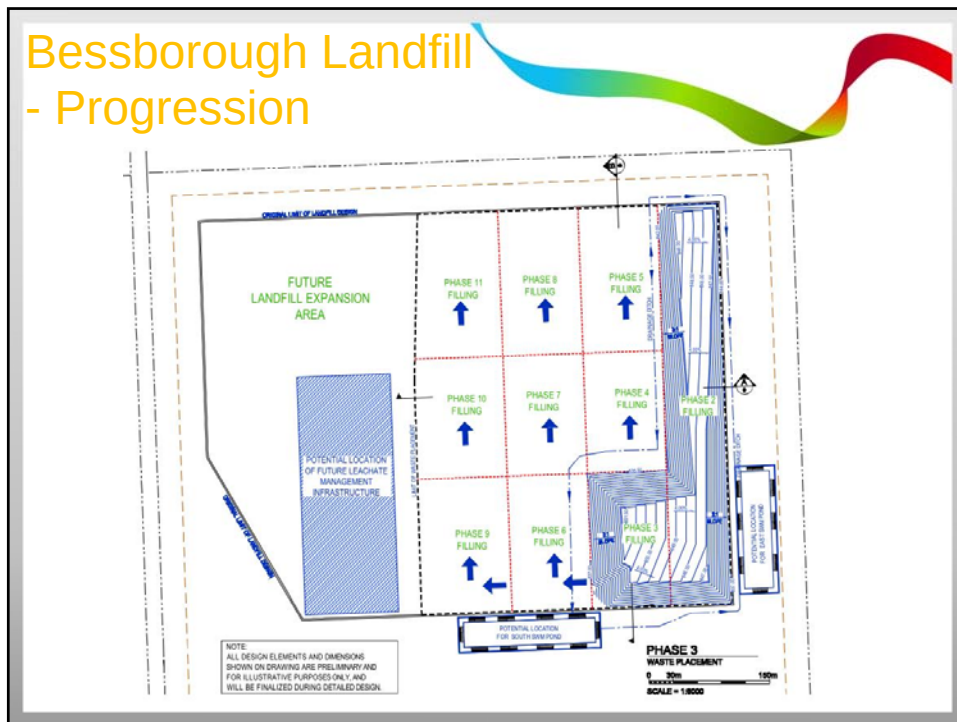
- At current fill rate the site has >100 years lifespan remaining.
- An RFP was issued to select the engineering consultant for the design the next 5 years of filling. Through this process it was determined that we have approximately 2 years of additional filling at Phase 1, meaning development of Phase 3 can be postponed



Bessborough Landfill



Bessborough Landfill - Progression



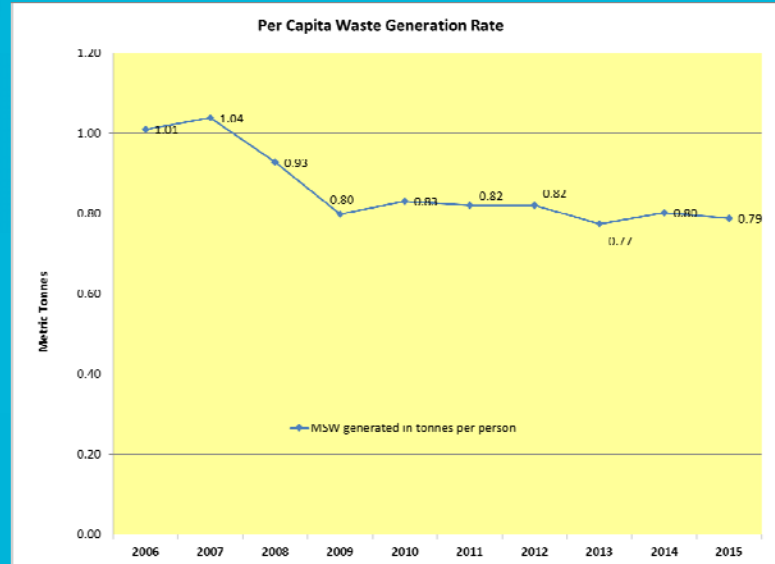
Chetwynd Landfill

- Fill plan within the current footprint identifies 9-12 years of remaining airspace.
- Hydrogeological conditions to north and south of current fill area not suitable for landfill expansion.
- A feasibility study was commissioned to determine the cost benefit of landfill expansion vs transfer station development. On January 14, 2016, the Board made the Resolution that the Chetwynd Landfill be converted into a transfer station once the landfill nears capacity.
- In 2016, Progressive Closure will occur on Phase A (yellow area)





Waste Generation Rate

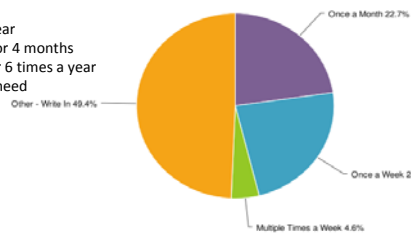


Customer Satisfaction Survey Results

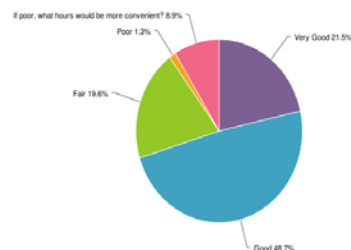
I use the PRRD Transfer Stations

"Other - Write In" Responses Included:

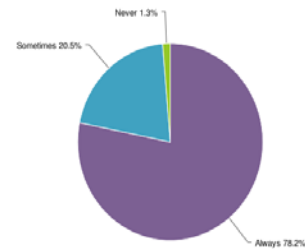
- Bi-Weekly
- Once per year
- Every 2, 3, or 4 months
- 2, 3, 4, 5, or 6 times a year
- Whenever need
- Rarely
- Never



The hours of operation are:



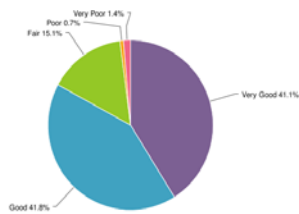
I find the attendants to be helpful and friendly



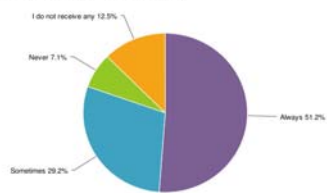


Customer Satisfaction Survey Results

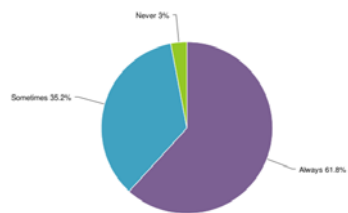
The service at the attended sites are:



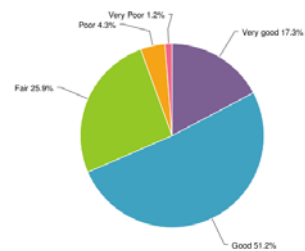
I use the free dumping coupons sent to me each Spring



The service in my area meets my needs:



The rules at the waste management solid waste facilities are:



Customer Satisfaction Survey Comments

- Overall, people were positive about the sites, saying that they find the sites:
 - clean, tidy, and well organized,
 - convenient, close, easy to use,
 - has great service.
 - They are glad to have these sites in their community
- Some improvements people would like to see are:
 - expanded hours (open more days per week, longer hours, more evening and weekend hours, and open Sundays),
 - more materials taken (paint, oil, electronics, light fixtures, etc.), Share Shed, and Green Waste Options
 - more manned sites that are secure,
 - longer Spring/Fall Clean Up,
 - unmanned sites require increased frequency of maintenance and clean up,
 - more encouragement of recycling activities to extend life of landfill areas

Recycling



- Board direction is required for the Scope of Work of RFP to be issued for a new Recycling Contract.
- A new province-wide stewardship program was implemented May 19, 2014 to manage residential Printed Paper and Packaging (PPP) in BC, run by Multi-Material BC (MMBC) .
- The Regional District has implemented the MMBC program at all new Rural Transfer Stations and has place holders for the new stations
- New PPP stewardship program will ultimately manage most of the existing residential material in the current PRRD recycling program at a reduced cost to the taxpayer.
- Municipalities are encouraged to participate in the MMBC program to achieve Regional Waste Diversion Goals, and minimize costs associated with curbside collection of PPP; otherwise municipal and rural taxpayers will be responsible for these costs

Public Education



- PRRD contracts Northern Environmental Action Team (NEAT) to deliver waste reduction educational programs to the public and ICI sector. Activities include:
 - Waste reduction annual calendar & semi-annual newsletter;
 - School presentations;
 - Recycling hotline and PRRRDY website;
 - Waste, energy and water conservation assessments for businesses;
 - Trade shows, outreach events and swap meets;
 - Radio, TV and newspaper advertising;
 - 2015 programs included assisting PRRD on developing an Illegal Dumping Strategy, Waste Composition Study, and Recycling throughout the Region
 - 2016 programs include refocusing Construction and Demolition and Compost/Organics Research



Part 3: Finances



Solid Waste Budget

Solid Waste Budget 2015 Summary

Item	2015 (Budgeted)
Revenue	\$14,202,124.14
Taxes	\$6,692,452.23
Fees	\$4,286,700.00
Grants in Lieu	\$657,859.00
Other	\$2,565,112.91
Expenditure	\$14,270,382.14
Administration	\$1,938,782.14
Operations of Sites	\$342,500.00
Landfills	\$122,000.00
Transfer Stations	\$220,500.00
Contractors	\$7,965,500.00
Landfills	\$2,972,000.00
Transfer Stations	\$1,502,000.00
Other Transfer Stations	\$561,000.00
PL6 Hauling	\$559,000.00
Recycling	\$1,800,000.00
Public Education	\$350,000.00
Consulting	\$102,000.00
Water Monitoring	\$119,500.00
Capital	\$3,907,000.00
Other*	\$116,600.00

* Other includes Clean Up Program, Mitigation of Closed Landfills and Transfer Stations



Post Processing Costs of Municipal Curbside Recycling

Comparison of Curbside Collection Costs

Municipality	Potential Tonnes Diverted through Curbside Recycling	Potential Lost Landfill Revenue (Tipping Fees)	Potential Post Processing Cost of 25% Recyclables
Chetwynd	111.815	\$6,020.83	\$100,633.50
Dawson Creek	540.605	\$29,132.24	\$486,544.50
Fort St John	980.5475	\$52,848.56	\$882,492.75
Hudson's Hope	122.57	\$6,620.99	\$110,313.00
Pouce Coupe	41.8975	\$2,249.88	\$37,707.75
Taylor	68.9925	\$3,724.43	\$62,093.25
Tumbler Ridge	292.97	\$15,762.69	\$263,673.00
Total	2159.3975	\$116,359.60	\$1,943,457.75

*This potential revenue is only based on the 25% estimation of recyclable in solid waste.

Incentive Based Tipping Fees

- Incentive Based Tipping fees are designed to provide financial incentive to encourage waste reduction and diversion

REGULAR WASTE		CONTROLLED WASTE		RESTRICTED WASTE	
TYPE	FEE	TYPE	FEE	TYPE	FEE
SORTED: HOUSEHOLD & COMMERCIAL	\$2.75 Minimum Charge	HOUSEHOLD APPLIANCES	\$10.00 Minimum Charge	SPECIFIED RISK MATERIALS	\$22.00 Minimum Charge
METAL		CONCRETE (> 15 cm piece size, no soil or gravel)	\$55/tonne	ANIMAL CARCASSES listed in Wildlife & Livestock Acts	\$125/tonne
WOOD	\$55/tonne	Clean UNCRUSHED STEEL & PLASTIC DRUMS with lids removed	\$55/tonne plus \$3.50/drum	LOADS CONTAINING >25% OLD CORRUGATED CARDBOARD	\$250/tonne
Domestic ANIMAL CARCASSES not listed in Wildlife & Livestock Acts		TIRES (MEDIUM - No Rim)	\$55/tonne plus \$10/tire	LEAD ACID BATTERIES	\$55/tonne
5 garbage bags or less (Min. fee N/A)	\$0.80 per bag	TIRES (INDUSTRIAL/HEAVY DUTY - No Rim)	\$55/tonne plus \$36/tire	ASBESTOS	\$150/tonne
TIRES (Cars, LT, SUV - No Rim)	\$55/tonne plus \$6/tire	MIXED DEMOLITION, LAND CLEARING & CONSTRUCTION STRIPPED VEHICLES	\$110/tonne	ALL OTHER RESTRICTED WASTE	\$150/tonne
UNSORTED REGULAR WASTE	\$110/tonne	UNSTRIPPED VEHICLES	\$110/tonne plus \$170/vehicle		
		CLEAN SOILS/CONCRETE RUBBLE (piece size <15 cm)	NO CHARGE		
		UNSORTED CONTROLLED WASTE	\$110/tonne		

PLEASE ASK SCALE ATTENDANT FOR ADDITIONAL INFORMATION

QUESTIONS?

PLEASE CALL:
250-784-3200 OR 1-800-670-7773



UNSECURED LOADS ARE CHARGED DOUBLE!!



Thank You



Solid Waste Management Plan Monitoring and Advisory Committee TERMS OF REFERENCE

BACKGROUND

Regional Districts in British Columbia are mandated by the Provincial Environmental Management Act to develop Solid Waste Management Plans that are long term visions of how each regional district manages their municipal and rural solid wastes. The Peace River Regional District's Solid Waste Management Plan, which was last amended in March, 2009, identified the formation of a SWMP Monitoring and Advisory Committee to monitor the implementation and effectiveness of the Plan and identify concerns and issues that have arisen during its implementation that may require changes.

GOAL OF THE COMMITTEE

The Plan Monitoring & Advisory Committee (PMAC) will monitor the implementation and effectiveness of the Solid Waste Management Plan (Plan) for the Peace River Regional District (PRRD).

OBJECTIVES

- To review the status of the Plan as to objectives completed and tasks remaining.
- To identify concerns and issues that may arise in the Plan's ongoing implementation.
- To act as a "sounding board" for the PRRD to review results of pilot programs.
- To make suggestions regarding how programs should be implemented and provide those recommendations to the PRRD Committee of the Whole.
- Provide advice and feedback on consultation activities with the general public.

STRUCTURE OF THE PLAN MONITORING & ADVISORY COMMITTEE

- 1. Members:** The PMAC will be made up of representatives from:
 - Staff from member municipalities.
 - PRRD waste management staff.
 - PRRD waste management contractors or partners.
 - Public agencies.
 - Representatives from First Nations within the region.
 - Private and non-profit sectors.
 - Industry and institutional representatives.
 - Members of the general public (consisting of one member from each Electoral Area).
- 2. Number of Members:** The number of members appointed by the PRRD Board is 26. An alternate may be nominated to attend in lieu of the person appointed to the PMAC.
- 3. Term of Office of Members:** Members will be asked to commit for up to 2 years.

REMUNERATION AND EXPENSES

Membership to the PMAC shall be strictly on a volunteer basis. Compensation from the PRRD for work performed as a member of the PMAC will be provided as follows:

- Per the Regional Board's Financial Policy, mileage will be paid to all volunteer members of the PMAC (except Ministry Staff and paid members of Commissions).
- Refreshments and lunch meal (if required) will be provided at all meetings.

RULES OF PROCEDURE

1. Robert's Rules of Order apply.
2. The PMAC is advisory and all recommendations will be forwarded to the Regional District Committee of the Whole for consideration.
3. The PMAC Chair shall be elected from the membership at the first meeting of each year. In the absence of the Chair, an Acting Chair shall be appointed for that meeting by the members present. The Chair shall be entitled to vote at all meetings. PRRD Board Directors are not eligible for the position of PMAC Chair.
4. **Quorum:** A simple majority, one member more than 50% of appointed members of the PMAC, shall constitute a quorum.
5. **Voting:** All issues that come before the PMAC shall be determined by way of majority vote.

MEETINGS OF THE PLAN MONITORING & ADVISORY COMMITTEE

1. Scheduled Meetings:

- a. Initial meeting scheduled for January 19, 2016
- b. Annual meeting will be tentatively scheduled for Fall of 2016 to resolve any potential outstanding items from the initial meeting and to refine SWMP objectives for 2017.

This schedule is subject to change. All regular agendas and meeting dates shall be arranged by the PRRD in consultation with the PMAC members. All meeting dates will be confirmed at least two weeks prior to the meetings with agendas being provided to the PMAC members and other interested parties at least one week prior to meetings. Agendas will also be posted on the Peace River Regional District website at www.prrd.bc.ca.

2. Minutes:

Notes and action items arising from each meeting will be documented. A synopsis of all meetings shall be posted on the PRRD website at www.prrd.bc.ca.

REPORTING TO THE PRRD COMMITTEE OF THE WHOLE

Recommendations adopted by the PMAC will be presented to the PRRD Committee of the Whole by way of a covering report drafted by PRRD staff.