



REPORT TO AVICC TASK FORCE ON SOLID WASTE

Re: Seminar Session held on Friday, 2015-OCT-16 at the Nanaimo Regional District Board Room.

Jerry Berry Consultants Inc. was pleased to be engaged to facilitate the Task Force's review of the recommendations stemming from the AVICC: The State of Waste Management report, prepared through Comox Strathcona Regional District Waste Management, by Tetra Tech EBA, dated September 2015.

The seminar was attended by both elected and staff representatives of seven of the nine AVICC Regional Districts. Sunshine Coast and Mount Waddington were not able to attend; however, Mount Waddington Board provided their views on work plan priorities in advance.

The purpose of this session was to receive the report and to consider the recommendations set out by Tetra Tech EBA in Table 14 of the report. Those recommendations are set out as follows:

Prepared by:
**Jerry Berry
Consultants Inc.**



October, 2015

Table 14: Recommendations and Options for AVICC Solid Waste Collaboration

Area of Work	Item #	Recommendation and/or Option Description	Key Driver
AVICC partnership	1.	Develop a vision and goals for the AVICC including: <ul style="list-style-type: none"> ▪ A communication strategy ▪ A unified education program 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Develop clarity of all recycling efforts across the AVICC
	2.	Continue to meet regularly – identify one solid waste challenge or opportunity to investigate at each meeting. <ul style="list-style-type: none"> ▪ Establish a 3 to 5 year process to maintain and update the 2015 baseline report information 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Build understanding of priorities
Long-term disposal	3.	Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in 20, 40, and 60 years' time.	<ul style="list-style-type: none"> ▪ Ensure accurate data and assumptions for making long-term investment decisions
	4.	Review the mid and long-term business case for a WTE energy facility with all AVICC members giving waste as a feedstock.	<ul style="list-style-type: none"> ▪ Need to effectively manage residual waste
Organics waste reduction strategies	5.	Develop a comprehensive AVICC organics strategy that engages the residential and ICI sectors. Build on existing organics systems in place in RDN and CoVRD.	<ul style="list-style-type: none"> ▪ Reduce per capita garbage generation ▪ Increase diversion rate ▪ Ensure regional processing capacity aligns with organics diversion strategies (e.g., curbside programs and disposal bans)
	6.	Conduct an assessment of organic feed stock and analysis of capacity needs along with a review of combined existing and planned organics infrastructure to ensure sufficient processing capacity is in place, either in the private and/or the public sector.	
	7.	Standardize organics curbside collection to provide consistency for materials collected, including food scraps and food-soiled paper.	
Recycling collection and drop-off programs	8.	Establish consistency in materials collected in curbside recycling programs and accepted at depots.	<ul style="list-style-type: none"> ▪ Increase diversion ▪ Optimize services and program efficiency ▪ Maximize participation
	9.	Implement common promotion and education programs throughout the AVICC. Focus on standardizing messaging, colours and system types.	
Financially sustainable model	10.	Explore implications of establishing unified tipping fee: <ul style="list-style-type: none"> ▪ Impact on revenue; ▪ Impact on tonnages disposed; ▪ Impact on leakage; and ▪ Impact on illegal dumping. 	<ul style="list-style-type: none"> ▪ Establish a sustainable financial model
	11.	Assess leakage and export of waste by private haulers and private landfills. Explore opportunities for government control of waste collection systems (flow control/franchising).	

ICI sector strategy	12.	Engage the ICI sector in constructive dialogue to identify opportunities for collaboration to address waste diversion issues. Establish an initial network of ICI contacts and use to educate and promote goals (e.g., organics and other disposal bans).	<ul style="list-style-type: none"> ▪ Increase diversion
	13.	Track all C&D waste generated including what is disposed in the region and what is exported.	
C&D sector strategy	14.	Expand or add areas to existing landfills to sort and separate recyclable C&D materials while other materials are stockpiled to be used for cover at the landfill or shipped out of region for recycling or beneficial reuse or energy recovery.	<ul style="list-style-type: none"> ▪ Increase diversion
	15.	Develop permit process that requires contractors to assess waste materials generated and develop a diversion strategy, and provide contractors with tools to support them.	<ul style="list-style-type: none"> ▪ Increase longevity of existing landfill capacity
	16.	Ensure all regional districts have requirements that all C&D waste must be disposed of at a licensed facility, and have similar rules regarding the requirement of disposal and diversion.	
Regulations and enforcement	17.	Ensure that disposal bans and bylaws are consistent across regions to reduce leakage across borders.	
	18.	Ensure that accurate and consistent metrics and statistics are taken for all materials (MSW, C&D, Recycling, Organics, Etc.) and receiving facilities (including private) are documented in terms of meeting standards and providing accurate data.	<ul style="list-style-type: none"> ▪ Track material generation and movement ▪ Increase diversion ▪ Ensure program costs are efficient
	19.	Develop a consistent enforcement strategy to support regulations.	<ul style="list-style-type: none"> ▪
	20.	Develop standards for odour levels for organic processing	
Advocacy	21.	Advocate British Columbia MOE and industry groups to review and expand waste reduction and diversion policies.	<ul style="list-style-type: none"> ▪ Adopt and implement new EPR programs ▪ Refine and improve existing EPR programs

Participants were asked to vote on their choice for 1st, 2nd, and 3rd working priority, by Regional District.

1st

2nd

3rd

The results of that voting, by Region was as follows:

Table 14: Recommendations and Options for AVICC Solid Waste Collaboration

Area of Work	Item #	Recommendation and/or Option Description	Key Driver
DPRRDShip	1.	Develop a vision and goals for the AVICC including: <ul style="list-style-type: none">A communication strategyA unified education program	<ul style="list-style-type: none">Establish a platform for effective collaborationDevelop clarity of all recycling efforts across the AVICC
	2.	Continue to meet regularly – identify one solid waste challenge or opportunity to investigate at each meeting. <ul style="list-style-type: none">Establish a 3 to 5 year process to maintain and update the 2015 baseline report information	<ul style="list-style-type: none">Establish a platform for effective collaborationBuild understanding of priorities
RRDLong-term disposal	3.	Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in 20, 40, and 60 years' time.	<ul style="list-style-type: none">Ensure accurate data and assumptions for making long-term investment decisions
	4.	Review the mid and long-term business case for a WTE energy facility with all AVICC members giving waste as a feedstock.	<ul style="list-style-type: none">Need to effectively manage residual waste
CSRDOrganics waste reduction strategies	5.	Develop a comprehensive AVICC organics strategy that engages the residential and ICI sectors. Build on existing organics systems in place in RDN and CoVRD.	<ul style="list-style-type: none">Reduce per capita garbage generationIncrease diversion rateEnsure regional processing capacity aligns with organics diversion strategies (e.g., curbside programs and disposal bans)
	6.	Conduct an assessment of organic feed stock and analysis of capacity needs along with a review of combined existing and planned organics infrastructure to ensure sufficient processing capacity is in place, either in the private and/or the public sector.	
	7.	Standardize organics curbside collection to provide consistency for materials collected, including food scraps and food-soiled paper.	
RecyclingACRDp-off programCRD	8.	Establish consistency in materials collected in curbside recycling programs and accepted at depots.	<ul style="list-style-type: none">Increase diversionOptimize services and program efficiencyMaximize participation
		Implement common promotion and education programs throughout the AVICC. Focus on standardizing messaging, colours and system types.	

Area of Work		Item #	Recommendation and/or Option Description	Key Driver	
MWRD	Financially sustainable model	10.	Explore implications of establishing unified tipping fee: <ul style="list-style-type: none">▪ Impact on revenue;▪ Impact on tonnages disposed;▪ Impact on leakage; and▪ Impact on illegal dumping.	<ul style="list-style-type: none">▪ Establish a sustainable financial model	
		11.	Assess leakage and export of waste by private haulers and private landfills. Explore opportunities for government control of waste collection systems (flow control/franchising).		
ACRD	ICCI sector strategy	12.	Engage the ICI sector in constructive dialogue to identify opportunities for collaboration to address waste diversion issues. Establish an initial network of ICI contacts and use to educate and promote goals (e.g., organics and other disposal bans).	<ul style="list-style-type: none">▪ Increase diversion	
C&D sector strategy	RDN	13.	Track all C&D waste generated including what is disposed in the region and what is exported.	<ul style="list-style-type: none">▪ Increase diversion▪ Increase longevity of existing landfill capacity	
		14.	Expand or add areas to existing landfills to sort and separate recyclable C&D materials while other materials are stockpiled to be used for cover at the landfill or shipped out of region for recycling or beneficial reuse or energy recovery.		
		15.	Develop permit process that requires contractors to assess waste materials generated and develop a diversion strategy, and provide contractors with tools to support them.		
MWRD	Regulations and enforcement	16.	Ensure all regional districts have requirements that all C&D waste must be disposed of at a licensed facility, and have similar rules regarding the requirement of disposal and diversion.	<ul style="list-style-type: none">▪ Track material generation and movement▪ Increase diversion▪ Ensure program costs are efficient▪ 	
RDN		17.	Ensure that disposal bans and bylaws are consistent across regions to reduce leakage across borders.		
CRD		18.	Ensure that accurate and consistent metrics and statistics are taken for all materials (MSW, C&D, Recycling, Organics, Etc.) and receiving facilities (including private) are documented in terms of meeting standards and providing accurate data.		
ACRD		19.	Develop a consistent enforcement strategy to support regulations.		
		20.	Develop standards for odour levels for organic processing		
CSRD	RDN	CRD	21.	Advocate British Columbia MOE and industry groups to review and expand waste reduction and diversion policies.	<ul style="list-style-type: none">▪ Adopt and implement new EPR programs▪ Refine and improve existing EPR programs

Immediate Priorities:

In view of this result, the participants, by consensus agreed that the following items should be recommended as immediate working priorities.

AVICC partnership	1.	Develop a vision and goals for the AVICC including: <ul style="list-style-type: none"> ▪ A communication strategy ▪ A unified education program 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Develop clarity of all recycling efforts across the AVICC
	2.	Continue to meet regularly – identify one solid waste challenge or opportunity to investigate at each meeting. <ul style="list-style-type: none"> ▪ Establish a 3 to 5 year process to maintain and update the 2015 baseline report information 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Build understanding of priorities
Advocacy	21.	Advocate British Columbia MOE and industry groups to review and expand waste reduction and diversion policies.	<ul style="list-style-type: none"> ▪ Adopt and implement new EPR programs ▪ Refine and improve existing EPR programs

Items which received prioritization, but which were not considered “immediate” work priorities were quite diverse, as would be expected by virtue of the wide range of circumstances prevalent across AVICC. As there was no apparent consensus on next steps, participants were then asked to rate their next priority from amongst the remaining (3-20) recommendations (i.e., after removing the three ‘Immediate Priorities’ already established).

This resulted in the votes as set out below:

Table 14: Recommendations and Options for AVICC Solid Waste Collaboration

Area of Work		Item #	Recommendation and/or Option Description	Key Driver
AVICC partnership		Established Immediate Priority		
COVRD	PRRD	3.	Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in 20, 40, and 60 years' time.	<ul style="list-style-type: none"> Ensure accurate data and assumptions for making long-term investment decisions
CSR	Long-term disposal	4.	Review the mid and long-term business case for a WTE energy facility with all AVICC members giving waste as a feedstock.	<ul style="list-style-type: none"> Need to effectively manage residual waste
		5.	Develop a comprehensive AVICC organics strategy that engages the residential and ICI sectors. Build on existing organics systems in place in RDN and CoVRD.	<ul style="list-style-type: none"> Reduce per capita garbage generation Increase diversion rate Ensure regional processing capacity aligns with organics diversion strategies (e.g., curbside programs and disposal bans)
	Organics waste reduction strategies	6.	Conduct an assessment of organic feed stock and analysis of capacity needs along with a review of combined existing and planned organics infrastructure to ensure sufficient processing capacity is in place, either in the private and/or the public sector.	
		7.	Standardize organics curbside collection to provide consistency for materials collected, including food scraps and food-soiled paper.	
ACRD	Recycling collection and drop-off programs	8.	Establish consistency in materials collected in curbside recycling programs and accepted at depots.	<ul style="list-style-type: none"> Increase diversion Optimize services and program efficiency Maximize participation
		9.	Implement common promotion and education programs throughout the AVICC. Focus on standardizing messaging, colours and system types.	

Area of Work	Item #	Recommendation and/or Option Description	Key Driver
Financially sustainable model	10.	Explore implications of establishing unified tipping fee: <ul style="list-style-type: none">▪ Impact on revenue;▪ Impact on tonnages disposed;▪ Impact on leakage; and▪ Impact on illegal dumping.	<ul style="list-style-type: none">▪ Establish a sustainable financial model
	11.	Assess leakage and export of waste by private haulers and private landfills. Explore opportunities for government control of waste collection systems (flow control/franchising).	
ICI sector strategy	12.	Engage the ICI sector in constructive dialogue to identify opportunities for collaboration to address waste diversion issues. Establish an initial network of ICI contacts and use to educate and promote goals (e.g., organics and other disposal bans).	<ul style="list-style-type: none">▪ Increase diversion
	13.	Track all C&D waste generated including what is disposed in the region and what is exported.	
C&D sector strategy	14.	Expand or add areas to existing landfills to sort and separate recyclable C&D materials while other materials are stockpiled to be used for cover at the landfill or shipped out of region for recycling or beneficial reuse or energy recovery.	<ul style="list-style-type: none">▪ Increase diversion▪ Increase longevity of existing landfill capacity
	15.	Develop permit process that requires contractors to assess waste materials generated and develop a diversion strategy, and provide contractors with tools to support them.	
	16.	Ensure all regional districts have requirements that all C&D waste must be disposed of at a licensed facility, and have similar rules regarding the requirement of disposal and diversion.	
RDN	17.	Ensure that disposal bans and bylaws are consistent across regions to reduce leakage across borders.	<ul style="list-style-type: none">▪ Track material generation and movement▪ Increase diversion▪ Ensure program costs are efficient▪
Regulations and enforcement	18.	Ensure that accurate and consistent metrics and statistics are taken for all materials (MSW, C&D, Recycling, Organics, Etc.) and receiving facilities (including private) are documented in terms of meeting standards and providing accurate data.	
	19.	Develop a consistent enforcement strategy to support regulations.	
	20.	Develop standards for odour levels for organic processing	
Advocacy	Established Immediate Priority		

Short-Term Priorities:

Accordingly, the following were selected by consensus, as short-term work priorities.

Long-term disposal	3.	Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in 20, 40, and 60 years' time.	▪ Ensure accurate data and assumptions for making long-term investment decisions
Regulations and enforcement	17.	Ensure that disposal bans and bylaws are consistent across regions to reduce leakage across borders.	?

Long-Term Priorities:

The remaining recommendations were, by default, deemed to represent long-range priorities by those Regions in attendance (#'s 4-16 and 18-20).

It should be noted that, in the making of these choices, the participants were asked to consider their "Regional" assessment of priorities **from the perspective of the AVICC Solid Waste Task Force** initiative, and how best to begin what can be expected to be an interesting evolution towards a broader AVICC approach and strategy over time.

CONCLUSION AND WORK PLAN:

Following a rating process, the participant Regions agreed, by consensus that the following recommendations of Tetra Tech should be recommended as work plan priorities:

Immediate Priorities:

1, 2 and 21

Short-Term Priorities:

3 and 7

Long-Term Priorities:

4-16 and 18-20

AVICC Long-Term Strategy for Solid Waste

Immediate Priorities:

Area of Work	Recommendation and/or Option Description	Key Driver	Status
AVICC partnership	Develop a vision and goals for the AVICC including: <ul style="list-style-type: none"> ▪ A communication strategy ▪ A unified education program 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Develop clarity of all recycling efforts across the AVICC 	
	Continue to meet regularly – identify one solid waste challenge or opportunity to investigate at each meeting. <ul style="list-style-type: none"> ▪ Establish a 3 to 5 year process to maintain and update the 2015 baseline report information. 	<ul style="list-style-type: none"> ▪ Establish a platform for effective collaboration ▪ Build understanding of priorities 	
Advocacy	Advocate British Columbia MOE and industry groups to review and expand waste reduction and diversion policies.	<ul style="list-style-type: none"> ▪ Adopt and implement new EPR programs ▪ Refine and improve existing EPR programs 	

Short-Term Priorities:

Area of Work	Recommendation and/or Option Description	Key Driver	Status
Long-term disposal	Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in 20, 40, and 60 years' time.	<ul style="list-style-type: none"> ▪ Ensure accurate data and assumptions for making long-term investment decisions 	
Regulations and Enforcement	Ensure that disposal bans and bylaws are consistent across regions to reduce leakage across borders.		

Long-Term Priorities:

Area of Work	Recommendation and/or Option Description	Key Driver	Status
Organics waste reduction strategies	Review the mid and long-term business case for a WTE energy facility with all AVICC members giving waste as a feedstock.	<ul style="list-style-type: none">▪ Need to effectively manage residual waste	
	Develop a comprehensive AVICC organics strategy that engages the residential and ICI sectors. Build on existing organics systems in place in RDN and CoVRD.	<ul style="list-style-type: none">▪ Reduce per capita garbage generation▪ Increase diversion rate▪ Ensure regional processing capacity aligns with organics diversion strategies (e.g., curbside programs and disposal bans)	
	Conduct an assessment of organic feedstock and analysis of capacity needs along with a review of combined existing and planned organics infrastructure to ensure sufficient processing capacity is in place, either in the private and/or the public sector.		
	Standardize organics curbside collection to provide consistency for materials collected, including food scraps and food-soiled paper.		
Recycling collection and drop-off programs	Establish consistency in materials collected in curbside recycling programs and accepted at depots.	<ul style="list-style-type: none">▪ Increase diversion▪ Optimize services and program efficiency▪ Maximize participation	
	Implement common promotion and education programs throughout the AVICC. Focus on standardizing messaging, colours and system types.		
Financially sustainable model	Explore implications of establishing unified tipping fee: <ul style="list-style-type: none">▪ Impact on revenue;▪ Impact on tonnages disposed;▪ Impact on leakage; and▪ Impact on illegal dumping.	<ul style="list-style-type: none">▪ Establish a sustainable financial model	
	Assess leakage and export of waste by private haulers and private landfills. Explore opportunities for government control of waste collection systems (flow control/franchising).		

Long-Term Priorities (continued):

Area of Work	Recommendation and/or Option Description	Key Driver	Status
ICI sector strategy	Engage the ICI sector in constructive dialogue to identify opportunities for collaboration to address waste diversion issues. Establish an initial network of ICI contacts and use to educate and promote goals (e.g., organics and other disposal bans).	<ul style="list-style-type: none"> ▪ Increase diversion 	
C&D sector strategy	Track all C&D waste generated including what is disposed in the region and what is exported.	<ul style="list-style-type: none"> ▪ Increase diversion ▪ Increase longevity of existing landfill capacity 	
	Expand and add areas to existing landfills to sort and separate recyclable C&D materials while other materials are stockpiled to be used for cover at the landfill or shipped out of region to recycling or beneficial reuse or energy recovery.		
	Develop permit process that requires contractors to assess waste materials generated and develop a diversion strategy, and provide contractors with tools to support them.		
	Ensure all regional districts have requirements that all C&D waste must be disposed of at a licensed facility, and have similar rules regarding the requirement of disposal and diversion.		
Regulations and enforcement	Ensure that accurate and consistent metrics and statistics are taken for all materials (MSW, C&D, Recycling, Organics, etc.) and receiving facilities (including private) are documented in terms of meeting standards and providing accurate data.	<ul style="list-style-type: none"> ▪ Track material generation and movement ▪ Increase diversion ▪ Ensure program costs are efficient 	
	Develop a consistent enforcement strategy to support regulations.		
	Develop standards for odour levels for organic processing		