

Data Transparency Through Third Party Verification

RCBC Zero Waste Conference
May 28-30, 2014

Ben Dunbar
AET Group Inc.



AGENDA

- What is third party verification?
 - Examples
- Why?
 - Defendable/unbiased/objective
 - Credibility
 - Managing multi-stakeholder relationships
- Waste Sector Examples & Case Studies
 - Composition/quality audits of residential recyclables
 - MRF recovery rate audits
 - Packaging audits
 - Pilot projects



WHAT IS THIRD PARTY VERIFICATION?

1st Party	Organization verifying/auditing its own system (internal)
2nd Party	Organization verifying/auditing activities of its suppliers, subcontractors, vendors, etc. (external)
3rd Party	Organization verified/audited by a independent body – (external)



WHAT IS THIRD PARTY VERIFICATION?

“Systematic, independent and documented process to obtain evidence, evaluate it objectively, and determine the extent to which pre-defined criteria are fulfilled”



WHERE?

- Management Systems
 - Quality (e.g. ISO 9001)
 - Environmental (e.g. ISO 14001)
 - Drinking Water Quality Management Standard
- Regulatory Compliance
 - Environmental
 - Financial
- Certifications/Labeling
 - LEED Buildings
 - Food (e.g. MSC Seafood, Organic, etc.)
 - 3R Certified
 - Fuel economy



ENERGUIDE Ask your dealer for the FUEL CONSUMPTION GUIDE or call 1-800-387-2000.

CITY / VILLE		Regular gasoline Esence ordinaire		HIGHWAY / ROUTE	
7.9	/ 36	Estimated annual fuel cost \$1,400		5.9	/ 48
L/100 km	mi/gal			L/100 km	mi/gal

These estimates are based on the Government of Canada's approved criteria and testing methods. The actual fuel consumption of this vehicle may vary. Refer to the Fuel Consumption Guide.

Données obtenues selon les critères et méthodes d'essai approuvés par le Gouvernement du Canada. La consommation réelle de carburant de ce véhicule peut varier. Consultez le Guide de consommation de carburant.

Canada

Demandez le GUIDE DE CONSOMMATION DE CARBURANT à votre concessionnaire ou composez le 1-800-387-2000.



WHERE? – WASTE/RECYCLING

- Public/Private Partnerships
 - Municipal residential recycling -> private MRF processing
 - Recycling composition (contamination) audits, processing & recovery audits
 - Contract specifications/renewals
- EPR & Stewardship Funding
 - Packaging audits
 - Program performance/recovery rate audits
- Municipal Waste Management Program Reviews
 - Pilot studies
 - Performance evaluations/participation audits



WHEN & WHY?

- Contractual/Regulatory requirement
 - Corporate financial reporting, drinking water quality, etc...
 - Vendor/supplier specifications (e.g. automotive sector)
 - Public/private partnerships (e.g. collection & processing contracts)
- Credibility
 - Independent/unbiased/objective (avoid conscious or unconscious bias)
 - Defendable
 - Avoid perception of the “Fox guarding the henhouse” (e.g. hauler doing your waste audit)
- Expertise & Efficiencies
 - Take advantage of 3rd party’s knowledge & experience



WHO? – CASE STUDIES

Contractual:

- City of Regina Residential Recycling Processing Contract
 - Processing \$/tonne is based on contamination rate of inbound materials.
 - Contamination rate is based on a monthly composition audit of inbound materials.
 - Contract specifies that Inbound audits must be overseen by third party.



WHO? – CASE STUDIES

EPR/Stewardship Funding:

- Stewardship Ontario PPP Generation and Recovery Rates -> Curbside & MRF Commodity Audits 2012/2013
 - 11 MRFs across the province, >200 samples audited from ~20 different commodities
 - 700 households, 7 municipalities, 8 wks of audits per municipality.

Why?

- Fee setting & calculation of Steward obligations is looked at very closely by the various stakeholders
- Exchange of \$Millions
- Require detailed, accurate & credible data



WHO? – CASE STUDIES

EPR/Stewardship Funding:

- Municipal projects funded through CIF grants
 - Durham Region Larger Blue Box roll-out
 - Question: Does this type of project improve the effectiveness & efficiency of blue box program?
 - Pre & post launch composition, participation & set-out audits



WHO? – CASE STUDIES

Expertise/Efficiency: ICI Waste Management System Reviews & Waste Composition Audits

- University Campus
 - Historically conducted internal waste audits.
 - Use independent auditor to conduct current waste audit
 - Why?
 - Questionable results/inconsistencies from previous audits
 - Difficult to convince administration to act on findings
 - Wanted to leverage experience, credibility & of independent waste audit experts



WHO? – CASE STUDIES

Expertise/Efficiency: ICI Waste Management System Reviews & Waste Composition Audits

- Large Manufacturing Facility
 - Waste Hauling Company offers waste audit service.
 - Wanted independent review of service level offered by hauler.
 - Why?
 - Hauler's primary interests do not necessarily align with 3Rs hierarchy.
 - Hauler not going to point out that lifts/pickups can be reduced.
 - Hauler not going to point client to a competitor or other outlet for potentially divertible materials.



SUMMARY



THANK YOU

Ben Dunbar

Manager of Waste Operations

AET Group Inc.

bdunbar@aet98.com

519-576-9723 x 303

