

The **Battery Broker Environmental Services Inc.**

11 Tupper Avenue, Etobicoke, Ontario M8Z 5H5

Tel: 416-255-3321

Email: [administration@batterybroker.on.ca](mailto:administration@batterybroker.on.ca)

Fax: 416-255-7707

[www.batterybroker.on.ca](http://www.batterybroker.on.ca)

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## **The Battery Broker Scope Package**

The Battery Broker Environmental Services Inc. will provide the packing, handling, pickup, transportation and recycling services for waste batteries, mercury & mercury contaminated products, and to that end the Battery Broker Environmental Services Inc. will provide the manpower, equipment, material, facilities and any other merchandise and services needed to perform this work safely and efficiently.

The waste batteries will be picked up at your site, once every three months. The Battery Broker Environmental Services Inc. will meet all of its obligations, so that the company's representative can approve the invoices when due.

The preparation, pickup, transportation, storage, and recycling of subject waste, will be in accordance with the Transportation of Dangerous Goods Act, The Canadian Environmental Protection Act, and Ontario Environmental Protection Act, the related regulations and amendments, in particular Regulation 347, as well as any other applicable laws and Government Regulations in effect.

All manifests and other similar documents required under the applicable laws and Government regulations must be prepared & issued by the Battery Broker Environmental Services Inc. in accordance with those laws and regulations.

The waste to be recycled is picked up at the customers' Site location by the Battery Broker's licensed transporter. The Battery Broker Environmental Services Inc. will ensure that all materials are adequately packed and identified at all times through out the duration of processing in accordance with the Regulation 347, all related bills and amendments (TDG Act, Canadian Environmental Protection Act, Ontario Environmental Protection Act, as well as any other applicable laws & Government regulations in effect) Only the identification required by regulation may appear on the packaging of hazardous waste.

Following the pickup and upon receipt by the recycler, The Battery Broker Environmental Services Inc. will provide a waste recycling certificate, showing the means of processing, name and address of the company ensuring final elimination and the date of recycling (letter of consumption), will be prepared and sent to you.

The receipt, classification, storage and recycling of the hazardous waste, will be carried out in the interior of The Battery Broker Environmental Services Inc.'s transfer station. Where subject waste is transferred for transport to a receiving facility, liabilities and responsibilities associated with the waste material becomes the ownership of the transfer station upon receipt and acceptance, via MOE & E manifest documentation. (See Scope Proposal Specification).

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The Battery Broker Environmental Services Inc. assures that all wastes will be handled by our fully trained technicians in compliance with Regulations 309/347 and the T.D.G. Act and it's related bills and amendments under our Certificates of Approval issued by the Ministry of Environment & Energy.

**Battery Type**

**Smelter**

Nickel / Cadmium  
Nickel Metal Hydride  
Nickel / Iron  
Magnesium  
Air Depolarized  
Alkaline  
Lithium Cobalt Oxide

The International Metals Reclamation  
Company Inc.  
P.O. Box 720  
Ellwood City, Pennsylvania 16117  
(724) 758-5515  
E.P.A. ID N<sup>o</sup>.: PAD 087561015

Mercury  
Silver Oxide  
Air Depolarized with Mercury

Mercury Waste Solutions Inc.  
(MWS New York Inc.)  
26 Railroad Avenue  
Albany New York 12205  
Tel: (816) 554-8080  
E.P.A. ID N<sup>o</sup>.: NYD 048148175

Lithium/Thionyl Chloride  
Lithium/Sulphur Dioxide  
Lithium/Manganese Dioxide  
Lithium/Iron Disulfide  
Lithium/Vanadium Pentoxide  
Lithium/Carbon Monofluoride

Toxco  
Box 232  
Trail, British Columbia V1R 4L5  
(604) 367-9882  
Provincial ID N<sup>o</sup>.: AS-11372

Lead Acid  
Sealed Lead  
Glass Pack  
Steel Case

Nova PB  
1200 Garnier St.  
Ville Ste. Catherine, Quebec J0L 1E0  
Tel: (450) 632-9910  
Provincial ID N<sup>o</sup>.: 2340-6218

Tonolli Canada Ltd.  
1333 Tonolli Road  
Mississauga, Ontario L4Y 2A4  
(905) 279-9555  
Provincial. ID No.: A 220 129

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**SCOPE PROPOSAL SPECIFICATION**

The Battery Broker Environmental Services Inc. will prepare for transport and recycling of waste batteries, mercury & mercury contaminated products, as follows:

**1. PREPARING FOR TRANSPORT.**

Trained technicians (In compliance with regulation, 309/347 and the TDG Act) will prepare waste, by placing the subject waste, in individual plastic lined drums. Secured containers are identified for that battery type and all TDGA's Label requirements, PIN ID, Shipping Name, Spill Action Response, Packing group and Hazard Class, will be identified.

**2. TRANSPORT.**

Identified and secured containers will be loaded onto a licensed carrier (The Battery Broker Environmental Services Inc. A 841 207) and the load secured to the truck. The truck will show appropriate placards & identification.

**3. SHIPPING DOCUMENTS.**

All manifest and other similar documents required under Regulation 347 and applicable laws will be prepared and issued by Battery Broker Environmental Services Inc. in accordance with those laws & regulations. The MOE&E Manifest document must be authorized by the company's personnel prior to the shipment leaving your site. A copy will be retained by your company & The Battery Broker Environmental Services Inc.

**4. STORAGE OF SUBJECT WASTE.**

The waste will be transported to our Licensed transfer station (A 210 646) where the batteries are inspected, sorted, stored and prepared for transport to the preferred recycler. Where subject waste is transferred for transport to a receiving facility, liabilities and responsibilities associated with the waste material becomes the ownership of the transfer station upon receipt and acceptance, via MOE & E manifest documentation.

**5. RECYCLING SUBJECT WASTE.**

The wastes are shipped to specific smelters, depending on the type of waste.

Upon Completion of the waste reclamation process. The recyclers will issue a Certificate of Waste Material Consumption, to the generator to evidence the consumption has been completed in a manner consistent with the acceptable engineering standards and in compliance with applicable rules and regulations set forth by the applicable Federal and Provincial Authorities.

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**Synopsis of Recovery Technology**

Lead/Acid Batteries are drained of their acid which is sent for reclamation or used in the lowering of pH in other waste streams while the lead is smelted and made into new products.

Nickel/Cadmium, Nickel/Iron, and Nickel Metal Hydride batteries are pelletized and reduced of oxidized metal species in a Rotary Hearth Furnace at 1250 degrees Celsius. Reduced pellets are then smelted in a Submerged Arc Furnace and poured into ingots, which are sent to manufacturer of stainless steel for new products.

Lithium is extracted and reused.

Alkaline, Zinc Carbon batteries are ground up and neutralized. Metals are then extracted and used in the production of stainless steel. Zinc is extracted and sent to processors for reuse.

Mercury is extracted and triple distilled, tested for retardation influences and introduced back into market place as Elemental.

Silver Oxide batteries are sent to processing facilities for reclamation and reuse in new products.

All metal casing are sent to ferrous or nonferrous metal recyclers.

Plastic is either shredded or ground into pellets and combined with virgin feed stock for the making of new materials.

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**Logistics for Recycling Your Wastes Today**

**Environmental Indemnification** - Environmental Risk Minimization

- Environmental legislation is going to become more stringent.
- The direction of this legislation is to focus responsibility for waste management upon the landfill operators and generators.
- This has created the need for both landfill operators and generators to develop long term environmental risk management plans that include remediation of contaminated sites.
- Implementation, coordination, and administration of these plans, plus the costs involved in remediation are very expensive.
- This in turn has created the desire for insurance against future environmental liability.
- Locating such insurance is either impossible or next to impossible and if achievable, is very expensive.
- When you recycle your products you will receive an indemnification certificate.
- This certificate releases you from the responsibilities associated with long term environmental liabilities.
- This, in turn, saves the landfill operators and generators' operating costs both today and tomorrow.

**Landfill Maximization**

- Landfill locations are becoming increasingly more difficult to site.
- Operating as well as post closure legislation is becoming more stringent.
- Existing landfills are currently being filled with goods and products that can be recycled.
- With the elimination of these goods and products the landfill operator maximizes landfill longevity.
- This, in turn, defers the need to locate a new suitable location, which again results in operating savings tomorrow.

**Sustainability**

- Community sustainability is desirable.
- The environment, society and economy are all part of mutually supporting system.
- Economic prosperity, social equity and environmental values are interdependent.
- Removing or altering even one can have serious complications for the entire system.
- Sustainable communities depend on economic prosperity, social equity and environmental values

**Benefits Outweigh the Costs**

- Eliminating or reducing future environmental risk through recycling results in cost savings both today and tomorrow.
- Maximizing landfill longevity through waste reduction results in cost savings tomorrow.
- Ensuring community sustainability is desirable

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