



Engineering Solutions for Business and Environment

KC Environmental Group Ltd. (KC) is an Alberta owned and operated environmental engineering firm that was established in 1992. KC's motto is to provide "**Engineering Solutions for Business and the Environment**" and along with it's sister organization Cleanit Greenit Composting System Inc., KC has developed a full range of specialized products and services to become a leader in providing environmental solutions.

KC specializes in providing consulting services in the areas of:

- Phase I, II and III Environmental Site Assessments
- Environmental Management Systems (including ISO 14000)
- Environmental Impact and Regulatory Assessments
- Compost Systems, Management and Operation (including remediation solutions)
- Integrated Waste Management



Cleanit Greenit Composting System Inc. (CG) is a composting facility that receives a variety of non-hazardous industrial and commercial organic waste. The CG process recycles these wastes back into the environment through the manufacture and sale of organic soil products. By the end of March 2002 CG will have processed approximately 55,000 metric tonnes of non-hazardous organic waste.

CG specializes in environmental sustainability by:

- Diverting non-hazardous organic material from landfills;
- Converting waste organic material into compost and other organic products;
- Eliminating customer waste ownership;

- Developing specialized compost recipes;
- Providing confidence through mini-lab trials for waste treatability and optimization of remediation methodology;
- Manufacturing premium soil products & amendments for use in remediation and reclamation of contaminated sites; and,
- Providing economical and practical environmental solutions for contamination problems.

Together **KC** and **CG** can provide a cradle to grave management solution for contaminated sites by:

- Providing project management to ensure projects are of a high quality, on time and within budget;
- Assisting in regulatory review, definition and conflict resolution;
- Developing clean-up criteria, preparing site development plans and reclamation certificate applications that meet or exceed regulatory requirements;
- Conducting site assessments and testing programs;
- Establishing monitoring and review systems; and,
- Sourcing and supervising required contractors and equipment.

Some of our Clients: BP Amoco, Dow Chemical, Petro-Canada, EPCOR, The City of Edmonton, The Edmonton Co-Composter, Department of National Defense, Hi-Atha Sawmill, Millar Western, Westaim, Weyerhaeuser, RB Williams Waste Management, Shell Chemicals, Town of Devon, Alberta Infrastructure, Labatt's, Molson's.



BENEFITS OF COMPOST AND COMPOST PRODUCTS

- ❖ Provides both an immediate and slow release source of nutrients
- ❖ Provides a stimulated microbial population essential to bioremediation and healthy plant growth
- ❖ Increases organic matter
- ❖ Provides a substrate for nutrient retention
- ❖ Promotes aeration
- ❖ Improves soil structure and encourages better root penetration
- ❖ Reduces the need for chemical fertilizers
- ❖ Promotes erosion control
- ❖ Reduces greenhouse gases

PRODUCT INFORMATION



COMPLETING NATURE'S CYCLE

Composting is a process that mimics the natural decomposition and recycling of organic matter back into the environment. It is a process that occurs in soil to maintain its fertility.

Composting kills weed seeds.

Complementary to this natural cycle, we have composted a variety of biodegradable waste materials to create nutrient rich compost for our soil products.

NatureMade Compost

A Grade A compost that provides essential levels of macro and micro nutrients specially formulated for enhancing and remediating soil. This compost includes yard waste, wood chips and bio-solid mixes. NatureMade Compost is an excellent source of organic matter. It is a perfect material to incorporate with hydrocarbon contaminated soil for bioremediation to meet & exceed regulatory requirements.

pH - 6.5-7.3
C:N Ratio - 25:1

EC - 3.0-3.9,
Organic Matter - 45%



Pembina Bio-Mulch

Aged mulched fines that add organic matter and provide necessary porosity and water retention for remediation of contaminated soils. This material protects soil from erosion, reduces compaction, maintains even soil temperatures and reduces soil evaporation. A nitrogen source has been added to aid in the remediation of hydrocarbon contaminated soil.

pH - 6.5-6.8
C:N Ratio - 78:1

EC - 1.5
Organic Matter - 73%



Pembina Road Stabilizer

Pembina Road Stabilizer is a one quarter inch wood product in the form of chips that is added to stabilize dirt roads, industrial parking lots, equipment yards, utility or railroad maintenance roads, landfill access roads, and other non-paved driving surfaces.

By adding aggregate or aggregate-like material such as wood chips, you gain strength and cohesion on the driving surface and promote the drainage of water. This results in a driving surface that better supports the weight of vehicles and heavy equipment.

pH - 6.5-6.8 EC - 1.5



Pembina Bark Mulch

This is an all-purpose mulch that provides protection for existing or newly remediated soils. Pembina Bark Mulch provides soil enhancing value by deterring weed growth by acting as a barrier and increasing soil moisture retention. Other benefits include, protection of roots from mechanical injury, moderation of temperature, reduction of soil compaction, and increased soil fertility over the long term.

pH - 6.5-7.0 EC - 1.7-2.3
C:N Ratio - 42:1 Organic Matter - 39%



“Products Can Be Engineered To Meet Specific Site Requirements”



CLEANIT GREENIT COMPOSTING SYSTEM
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Edmonton Facility: 1.780.488.7926
Drayton Valley Mulch Facility: 1.877.774.5678