

# INITIAL PROPOSAL - PRESENTED TO RESIDENTS.

## SPA HILLS FARM INC. COMPOSTING FACILITY 2219 Yankee Flats Road KEY DESIGN FEATURES

### *Waste Source & Rationale*

- Only local slaughterhouse waste will be processed – it will all come from Riverside Natural Meats in Silver Creek, B.C.
- No Specified Risk Materials (SRMs) will be included in the waste stream
- Riverside's waste is currently trucked to Alberta. The Spa Hills composting facility will reduce costs for both Riverside and local farmers
- Riverside currently produces about 450 tonnes of non-SRM waste per year (2008). A similar amount is expected in the future – about half between September & December
- The waste is refrigerated and will be processed immediately. Likely one pick-up per week January-August; two per week September-December

### *Composting System*

- Spa Hills Farm currently produces chicken and beef – the Mitchell family is experienced with handling organic waste including composting & land application
- Trucking via dump truck with solid bottom and sealed tailgate to prevent leakage. Trucking distance is 7 kilometres (1-way)
- The composting facility will be designed by Transform Compost Systems Ltd. – one of Canada's leading compost design & supply companies ([www.transformcompost.com](http://www.transformcompost.com))
- "Class A" compost will be produced (as defined by B.C. Organic Matter Recycling Regulation)
- Composting will take place indoors under cover (roof and walls on all four sides). The site is adjacent to existing barns
- The compost building will have a concrete floor and the first 8' of the walls will be concrete block – there will be no drainage to underlying soils (see next page)

## SPA HILLS FARM INC. COMPOSTING FACILITY KEY DESIGN FEATURES (continued)

- Waste will be well mixed with wood chips, sawdust or straw and placed in six bins for composting
- Process is "Aerated Static Pile" - Compost will be aerated with an in-floor aeration system to promote microbial activity
- Probes in the compost piles monitor temperature & moisture – aeration system comes on automatically to control compost process

### *Runoff/Leachate/Odour Control and Compost Use*

- Runoff from mixing pad and leachate from the aeration channels will be collected in a tank and re-cycled
- Compost will be aerated during primary composting phase – this avoids the need to turn the pile, which can release odours
- Compost piles are covered with biofilter layer – clean wood waste or finished compost. Microbes in biofilter degrade odour compounds
- Finished compost will be applied to Spa Hills Farms' fields as a soil amendment & plowed in. Expected annual production 390 tonnes