

Waste Management

The FacTS™ Waste Management Module offers comprehensive cradle-to-grave waste monitoring capabilities. Waste tracking features may be used in conjunction with the material tracking features to seamlessly follow the transition between feedstock and waste materials. By following a material's movement from receipt to final disposal, FacTS can generate mass balance reports for each facility or location within the facility. Alternatively, for clients who have not yet implemented a full material tracking system, Quantum's Waste Management Module can be used without input from the inventory tracking portions of the system.

Quantum's Waste Management Module performs five major functions:

- ❑ Characterizes the waste based on analytical samples
- ❑ Generate barcode labels
- ❑ Tracks on-site generation, storage, and movement of waste
- ❑ Qualifies treatment and disposal options
- ❑ Monitors compliance waste storage areas

Available within each of these functional areas are a wide variety of management, regulatory, and user-defined reports and inquiries.

For waste characterization, the system maintains a complete profile of each waste

stream associated with a facility. The profiles document the waste codes (both Federal and State), the generating process, and the overall characteristics of each waste stream, any special handling instructions, and appropriate DOT references. Data is pulled from these files to generate the Federal Biennial Waste Report. The RCRA waste codes are included as a preloaded reference library within the database. The database can also be preloaded with appropriate state codes. These profiles also reference analytical data kept in the Sample Tracking Module. Users are notified annually that waste stream analyses must be re-certified.

Once the waste stream has been described, FacTS ties this information to the generation, storage, and disposal of the waste. As described above, the Waste Management Module is completely integrated with the Inventory Transaction files of the FacTS Base System. By selecting the proper endpoint code, the user is able to track a process stream (feedstock or a container) that becomes waste from the point of its generation and storage through its final on-site or off-site disposition. As waste is removed from the process unit, the waste containers are defined; data kept about the containers includes start date, container type and capacity, and personnel charged with monitoring.

Waste profiles can then be associated to the container. FacTS keeps a running tally of the total volume and type of waste in each container. The system also supports a "parent to child relationship", which means that it will track the movement of materials (or containers) from one container (or location) to another, as required, to track movement and disposal of lab packs. Each container is assigned an alphanumeric identifier; this is fully compatible with bar coding schemes. The storage locations within the facility are defined so that the time limits associated with each type are automatically flagged. Containers overdue for disposal are automatically displayed upon user login through the calendar function. A wide variety of standard reports document current volumes and types of waste stored at each location, history of a particular container, and amounts of waste generated by each production unit. These types of reports are often used to track the progress of waste minimization programs.

The third major functional area of the Waste Tracking Module is qualifying the vendors associated with the transportation and disposal of waste. The system documents the vendors, their relevant permits, the results of any audits, the types of materials they may handle, and the manner by which waste will be disposed or treated.

In addition, FacTS documents the costs associated with handling or disposal of each waste type. Costs may be tracked both by standard prices issued by each vendor, and by unique pricing issued under special contract or purchasing agreements. Reports may be generated by the system showing the total volume of waste handled by

FacTS™

each vendor, the waste type, and the time period involved. These reports can be sorted by facility, by TSDRF, and by range of dates.



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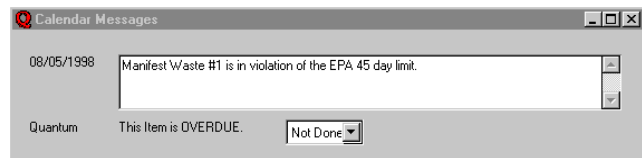
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ADDITIONAL FEATURES

The FacTS Waste Management module also offers the following functionality:



- ❑ The generation, storage, and disposal of PCB and asbestos contaminated materials can be tracked using the Waste Management module.
- ❑ The Waste Management module, in conjunction with the Waste Manifest module, allows Generators and TSDRFs to approve and track waste, including waste treated and disposed of by Land Applications. This includes tracking land application (sludge) volumes by facility, date, and time; tracking sample assay data for each load of sludge applied; totaling of chemicals (pollutants and nutrients) applied to each facility over time; and tracking of both actual and target application rates.
- ❑ Full integration capability with other FacTS modules, including Chemical Tracking and Transportation is possible with the Waste Management module.
- ❑ The Waste Management module allows, as do all FacTS modules, the ability to import data from external systems.
- ❑ Full integration with the FacTS calendar message system notifying appropriate individuals of approaching compliance issues associated to waste storage areas.

