



## Waste Management/Tracking

The FacTS™ Environmental Reporting Suite' Waste Management/Tracking feature offers comprehensive cradle-to-grave waste monitoring capabilities. It tracks all types of waste such as hazardous, universal, PCB, and asbestos to paper, trash and cafeteria waste. It can 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/Tracking can be used without input from the inventory tracking portion of the system.

### FEATURES

Quantum's Waste Management/Tracking performs five major functions:

- Characterizes the waste based on analytical samples;
- Tracks on-site generation, storage, and movement of waste;
- Qualifies treatment and disposal options;
- Tracks off-site transportation, treatment, and disposal; and
- Generates mandatory regulatory reports, manifests, and records.



Available within each of these functional areas is 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), special waste types such as PCBs and asbestos, the generating process, the overall characteristics of each waste stream, any special handling instructions, and appropriate DOT references. Data is pulled from these tables to generate the three part Federal Biennial Waste Report. The RCRA waste codes are preloaded within the database. The database can also be preloaded with appropriate state codes. These profiles also reference analytical data kept in the **Sample Tracking** feature. Users can be 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, Waste Management/Tracking is completely integrated with the inventory transaction data. 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 streams 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 alpha-numeric 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 Waste Management/Tracking 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 each vendor, the waste type, and the time period involved. These reports can be sorted by facility, by TSDRF, and by range of dates.

## MANIFESTS

As the bulk shipment or waste containers are shipped off-site, FacTS tracks the movement documented by manifests generated by the system. The system records the unique manifest number, the date the manifest was issued, the companies involved in transportation and disposal of the waste, and the containers included on the manifest. Analytical data associated with containers assigned to manifests is also

Outbound Manifest: Detail - Change (+5)	
Outbound Manifest Line \ Outbound Manifest Signoff \ Manifest Surcharge \ Waste Transporters \ F	
Facility ID:	LMSB LMSB
Manifest Year:	2007
Manifest Document No.:	00003 Last Doc. #: 00003
Manifest Tracking No.:	18450
Transporter ID #1:	ALD000622464 CWM, Emelle, AL
Transporter ID #2:	
Transporter ID #3:	
Transporter ID #4:	
TSDRF ID:	000008327658 Southern Recycling, Inc
State:	KY Kentucky
Ship Date:	06/01/2007
Return Date:	
Manifest Status:	No Gen Not Generated

tracked. The user can associate contaminated materials removed from a remediation area using the standard waste tracking functions. Analytical data can be associated to the materials being removed and also to the grid location in the remediation area. By citing the Container IDs, FacTS automatically carries to the manifest the waste codes and volumes associated with each container. FacTS generates the Federal Uniform Manifest and Continuation Sheets, as well as Land Disposal Restriction (LDR), PCB Certification Form, and Bills of Lading if required. The system generates a series of reports displaying outstanding return copies of manifests. This data is also available for automatic display upon user login, through the calendar function.