

The data system will perform logic checks on data entered and calculate final results from primary data (where necessary). This is intended to reduce reporting errors and limit the time involved in investigating, checking, and correcting errors at all levels. EPA will make large system monitoring data available to States when States assume primacy for the LT2ESWTR or earlier under State agreements with EPA.

Large systems should instruct their laboratories to electronically enter monitoring results into the EPA data system using web-based manual entry forms or by uploading XML files from laboratory information management systems (LIMS). After data are submitted by a laboratory, systems may review the results on-line. If a system believes that a result was entered into the data system erroneously, the system may notify the laboratory to rectify the entry. In addition, if a system believes that a result is incorrect, the system may submit the result as a contested result

and petition EPA or the State to invalidate the sample. If a system contests a sample result, the system must submit a rationale to the primacy agency, including a supporting statement from the laboratory, providing a justification. Systems may arrange with laboratories to review their sample results prior to the results being entered into the EPA data system. Also, if a system determines that its laboratory does not have the capability to report data electronically, the system can submit a request to EPA to use an alternate reporting format.

Regardless of the reporting process used, systems are required to report an analytical monitoring result to the primacy agency no later than 10 days after the end of the first month following the month when the sample was collected. As described in section IV.A.1, if a system is unable to report a valid *Cryptosporidium* analytical result for a scheduled sampling date due to failure to comply with the analytical

method requirements (e.g., violation of quality control requirements), the system must collect a replacement sample within 14 days of being notified by the laboratory or the State that a result cannot be reported for that date and must submit an explanation for the replacement sample with the analytical results. A system will not incur a monitoring violation if the State determines that the failure to report a valid analysis result was due to circumstances beyond the control of the system. However, in all cases the system must collect a replacement sample.

The data elements to be collected by the electronic data system will enhance the reliability of the microbial data generated under the LT2ESWTR, while reducing the burden on the analytical laboratories and public water systems. Tables IV-31 and IV-32 summarize the system's data analysis functions for *Cryptosporidium* measurements.

TABLE IV-31.—LT2ESWTR DATA SYSTEM FUNCTIONS FOR *Cryptosporidium* DATA

Value calculated	Formula	Applicability to sample types	
		Field	Matrix spike
Calculation of sample volume analyzed.	(Volume filtered) * (resuspended concentrate volume transferred to IMS/resuspended concentrate volume).	Yes	Yes.
Pellet volume analyzed	(pellet volume)*(resuspended concentrated volume transferred to IMS/resuspended concentrate volume).	Yes	Yes.
Calculation of oocysts/L	(Number of oocysts counted)/(sample volume analyzed)	Yes	Yes.
Calculation of estimated number of oocysts spiked/L.	(Number of oocysts spiked)/(sample volume spiked)	No	Yes.
Calculation of percent recoveries for MS samples.	((Calculated # of oocysts/L for the MS sample)—(Calculated # of oocysts/L in the associated field sample)) / (Estimated number of oocysts spiked/L) * 100%.	No	Yes.

TABLE IV-32.—LT2ESWTR DATA SYSTEM FUNCTIONS FOR *Cryptosporidium* COMPLIANCE CHECKS

LT2 requirements	Description
Sample volume analysis	Specifies that the LT2 requirements for sample volume analyzed were met when: <ul style="list-style-type: none"> • volume analyzed is > 10 L. • volume analyzed is < 10 L and pellet volume analyzed is at least 2 mL. • volume analyzed < 10 L and pellet volume analyzed < 2 mL and 100% of filtered volume examined= Y and two filters were used. Specifies that the LT2 requirements for sample volume analyzed were not met when: <ul style="list-style-type: none"> • volume analyzed < 10 L and pellet volume analyzed is < 2 mL and 100% of filtered volume examined= N. • volume analyzed is < 10 L and pellet volume analyzed < 2 mL and only 1 filter used.
Schedule met	Specifies that the predetermined sampling schedule is met when the sample collection data is within ± 2 days of the scheduled date.

c. *Previously collected monitoring data.* Table IV-33 provides a summary of the items that systems must report to EPA for consideration of previously collected (grandfathered) monitoring data under the LT2ESWTR. For each field and matrix spike (MS) sample, systems must report the data elements specified in Table IV-29. In addition,

the laboratory that analyzed the samples must submit a letter certifying that all Method 1622 and 1623 quality control requirements (including ongoing precision and recovery (OPR) and method blank (MB) results, holding times, and positive and negative staining controls) were performed at the required frequency and were acceptable.

Alternatively, the laboratory may provide for each field, MS, OPR, and MB sample a bench sheet and sample examination report form (Method 1622 and 1623 bench sheets are shown in USEPA 2003h).

Systems must report all routine source water *Cryptosporidium* monitoring results collected during the