

Draft Information Collection Request for the Microbial Rules

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Figure 1: Structure of OGWDW ICRs

ACRONYMS

ССР	Composite Correction Program
CCR	Consumer Confidence Report
CDC	Centers for Disease Control and Prevention
CFE	Combined Filter Effluent
CFR	Code of Federal Regulations
CPE	
	Comprehensive Performance Evaluation
CT	Contact Time
CWS	Community Water System
CWSS	Community Water System Survey
DBPR	Disinfectants and Disinfection Byproducts Rule
DDBP/Chem/Rads	Disinfectants and Disinfection Byproducts, Chemical, and Radionuclides
DWSRF	Drinking Water State Revolving Fund
EPA	Environmental Protection Agency
ESWTR	Enhanced Surface Water Treatment Rule
FBRR	
	Filter Backwash Recycling Rule
FR	Federal Register
FTE	Full Time Equivalent
GWR	Ground Water Rule
GWUDI	Ground Water Under the Direct Influence of Surface Water
HAA5	Haloacetic Acids
HPC	Heterotrophic Plate Count
ICR	Information Collection Request
IESWTR	Interim Enhanced Surface Water Treatment Rule
IFA	Individual Filter Assessment
LT1ESWTR	Long Term 1 Enhanced Surface Water Treatment Rule
LT2ESWTR	Long Term 2 Enhanced Surface Water Treatment Rule
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
NAICS	North American Industry Classification System
NCWS	Noncommunity Water System
NPDWRs	National Primary Drinking Water Regulations
NTNCWS	Nontransient Noncommunity Water System
NTU	Nephelometric Turbidity Unit
O&M	Operation and Maintenance
OGWDW	Office of Ground Water and Drinking Water
OMB	Office of Management and Budget
PN	Public Notification
PRA	Paperwork Reduction Act
PWS	Public Water System
PWSS	Public Water System Supervision
RegNeg	Regulatory Negotiation
RIA	Regulatory Impact Analysis
RFA	Regulatory Flexibility Analysis
SBARP	Small Business Advocacy Review Panel
SBREFA	Small Business Regulatory Enforcement Fairness Act
SCADA	Supervisory Control and Data Acquisition
SDWA	Safe Drinking Water Act
SDWIS	Safe Drinking Water Information System

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SER	Small Entity Representative
SOC	Standard Occupational Classification
SNC	Significant Non-Compliance
SWAP	Source Water Assessment Program
SWTR	Surface Water Treatment Rule
TCR	Total Coliform Rule
TTHM	Total Trihalomethanes
UIC	Underground Injection Program
V&Es	Variances and Exceptions

1 IDENTIFICATION OF THE INFORMATION COLLECTION

1(a) Title and Number of the Information Collection

Title: Information Collection Request for the Microbial Rules

OMB Control Number: 2040-0205

EPA Tracking Number: 1895.04

1(b) Short Characterization

The Office of Ground Water and Drinking Water (OGWDW) at the U.S. Environmental Protection Agency (EPA or the Agency) is responsible for developing National Primary Drinking Water Regulations (NPDWRs) as mandated by the Safe Drinking Water Act (SDWA). Section 1412 of the SDWA requires EPA to establish NPDWRs for contaminants that may adversely impact human health. The Act further requires EPA to monitor and enforce these regulations to ensure that the nation's drinking water dependably complies with the maximum contaminant levels (MCLs) stipulated in the Code of Federal Regulations (CFR), 40 CFR Part 141, Subpart B.

Section 1445 of the SDWA stipulates that every drinking water supplier must conduct monitoring, maintain records, and provide such information as is needed for EPA to implement its monitoring and enforcement responsibilities with respect to the Act. State¹ governments—in those states that have assumed primary enforcement responsibility (primacy) for public water systems (PWSs) under SDWA Section 1413—ensure that PWSs are complying with these monitoring requirements. As part of the Public Water System Supervision (PWSS) Program, the OGWDW uses the Safe Drinking Water Information System (SDWIS) to record some of the data collected as a result of NPDWR requirements. SDWIS is a database management system that assists EPA in tracking and interpreting monitoring data and other program-related data. These data assist EPA in fulfilling its SDWA obligations.

This Information Collection Request (ICR) was prepared in accordance with the November 2005 version of EPA's Guide to Writing Information Collection Requests Under the Paperwork Reduction Act (PRA) of 1995 (or "ICR Handbook") prepared by EPA's Office of Environmental Information, Office of Information Collection, Collection Strategies Division. The ICR Handbook provides the most current instructions for ICR preparation to ensure compliance with the 1995 PRA amendments and the Office of Management and Budget's (OMB's) implementing guidelines.

¹ Throughout this document, the terms "State" or "states" are used to refer to all types of primacy agencies. There are currently 57 primacy agencies, including the 50 States, the District of Columbia, U.S. territories (Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, and Northern Marianas), and Navajo Nation. Though Wyoming and the District of Columbia do not have primacy, the EPA burden for these activities is counted as primacy agency burden.

This ICR examines PWS, primacy agency, and EPA burden and costs for recordkeeping and reporting required in support of microbial contaminant-associated rulemakings. These rules include the following—

- 1) Surface Water Treatment Rule $(SWTR)^2$
- 2) Total Coliform Rule (TCR)
- 3) Interim Enhanced Surface Water Treatment Rule (IESWTR)
- 4) Filter Backwash Recycling Rule (FBRR)
- 5) Long Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR)
- 6) Long Term 2 Enhanced Surface Water Treatment Rule $(LT2ESWTR)^3$
- 7) Ground Water Rule $(GWR)^4$

This ICR estimates burden and costs for October 1, 2008, and September 30, 2011, for the rules above. It updates the burden and cost estimates provided in the Microbial Rules ICR dated November 2004, which expires on September 30, 2008. This ICR includes burden for the GWR only for the period after October 31, 2009. GWR burden incurred prior to this date is addressed in the stand-alone ICR for that rule. The burden and cost estimates for each rule are discussed in greater detail in Section 6 of this document.

Continuing costs and burden for several existing drinking water regulations are evaluated in this ICR. The total annual burden associated with this ICR is estimated to be approximately 10.7 million hours per year. The total annual cost associated with this ICR is estimated to be approximately \$554.0 million. The distribution of annual burden between PWSs and primacy agencies is approximately 8.5 million hours and 2.1 million hours, respectively. The distribution of annual costs between PWSs and primacy agencies is approximately \$462.1 million and \$91.9 million, respectively. There is no Agency burden or cost for this ICR. Section 6 and Appendices B through H detail these burden and cost calculations.

The approximate annual operation and maintenance (O&M) and capital costs are \$197.2 million (\$110.6 million for O&M and \$86.6 million for capital). This represents the "cost burden" as reported in the OMB inventory. Note that these costs are for PWSs only; primacy agencies do not have capital or O&M costs associated with the Microbial Rules.

The total number of respondents for this ICR is 155,750; 57 of these respondents are primacy agencies and the balance are existing PWSs (155,693). The total annual number of responses for these respondents is 12.1 million (10.1 million for PWSs and 2.0 million for primacy agencies).

² This Microbial Rules ICR includes all SWTR components except disinfectant residual monitoring and associated activities, which are included in the Disinfectants and Disinfection Byproducts, Chemical, and Radionuclides (DDBP/Chem/Rads) Rules ICR (see section 4(b)(i)).

³ The burden for this rule was previously addressed in stand-alone ICR OMB #2040-0266. It is being incorporated into the Microbial Rules ICR for the first time.

⁴ The burden for this rule was previously addressed in stand-alone ICR OMB #2040-0271. It is being incorporated into the Microbial Rules ICR for the first time.

Microbial Rules ICR

2 NEED FOR AND USE OF THE COLLECTION

2(a) Need/Authority for the Collection

This section identifies the regulatory or statutory authority for the information collection activities covered in this ICR and describes why EPA needs the information. Section 4 contains a summary of the major recordkeeping and reporting requirements for rules covered by this ICR.

The Microbial Rules ICR includes the following rules addressing microbial contaminants—

- 1) Surface Water Treatment Rule
- 2) Total Coliform Rule
- 3) Interim Enhanced Surface Water Treatment Rule
- 4) Filter Backwash Recycling Rule
- 5) Long Term 1 Enhanced Surface Water Treatment Rule
- 6) Long Term 2 Enhanced Surface Water Treatment Rule
- 7) Ground Water Rule

As EPA publishes new regulations, EPA will amend the appropriate ICR to include the new rules.

For a graphical depiction of the structure of the OGWDW ICRs, see Figure 1. A complete itemization of the activities included in the three primary ICRs, as well as other drinking water program ICRs, is included as Exhibit 1.

The information collected under this ICR is required by EPA to carry out its monitoring and enforcement responsibilities under SDWA. Without comprehensive, up-to-date information on chemical contaminants present in drinking water, the Agency would not be able to meet the SDWA statutory requirements.

§ 1401 of the SDWA requires that—

there must be criteria and standards to assure a supply of drinking water which dependably complies with such maximum contaminant levels; including quality control and testing procedures to insure compliance with such levels and to insure proper operation and maintenance of the system...

Further, §1445 of the SDWA requires that-

every person who is a supplier of water shall establish and maintain such records, make such reports, conduct such monitoring, and provide such information as the Administrator may reasonably require by regulation to assist him in establishing regulations, in determining whether such person has acted or is in compliance with this title...

In addition, §1401(1)(d) of the SDWA 1986 Amendments defines NPDWRs to include "criteria and procedures to assure a supply of drinking water which dependably complies with such maximum contaminant levels; including accepted methods for quality control and testing procedures ..." This section authorizes EPA to require systems and laboratories to use Agency-approved methods and quality assurance criteria for collecting and analyzing water samples.

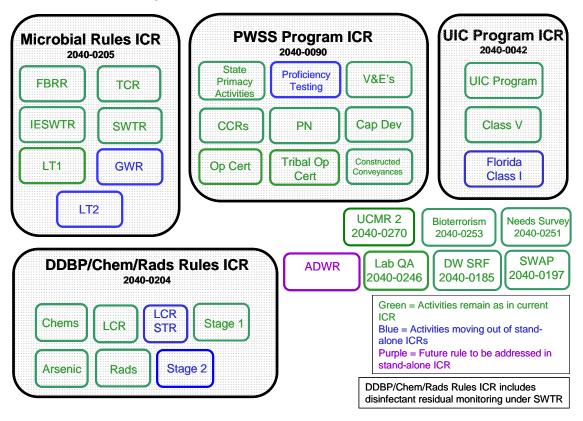


Figure 1. Structure of OGWDW ICRs

Exhibit 1:	Structure of	OGWDW ICRs
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	UIC Base Program Activities	Florida Class I Rule
Class V Rule	Class V Rule	

⁵ Disinfectant residual monitoring and associated activities are included in the DDBP/Chem/Rads Rules ICR. OMB DRAFT—Do not Cite, Quote, or Distribute 6

Currently covered	To be covered in the future			
Drinking Water State Revolving Fund (DWSRF) Program ICR (2040-0185)				
Drinking Water State Revolving Fund Program				
Drinking Water Infrastructure Needs Survey ICR	2040-0251)			
2007 Needs Survey				
Title VI of the Public Health Security and Bioterrorism Preparedness and Response Act of 2002: Drinking Water Security and Safety ICR (2040-0253)				
Vulnerability Assessments and Emergency Response Plans for community water systems (CWSs).				

1) Surface Water Treatment Rule

The 1986 SDWA Amendments required EPA to propose and promulgate a NPDWR specifying criteria under which filtration would be required as a treatment technique for public water systems supplied by surface water sources (Section 1412 (b)(7)(C)(i)). In promulgating this regulation and setting the criteria, EPA was required to consider source water quality; protection afforded by watershed management programs; treatment techniques, such as disinfection practices and length of water storage; and other factors relevant to protection of health. The requirements for the SWTR included in this ICR help EPA promote public health through proper operation of filtration techniques. Additional SWTR requirements, such as monitoring and watershed control programs, promote protection of public health in the absence of filtration.

2) Total Coliform Rule

The 1986 SDWA Amendments required EPA to publish maximum contaminant level goals (MCLGs) and promulgate NPDWRs for the 83 contaminants listed in the Advance Notice of Proposed Rulemaking at 47 FR 45502 (March 4, 1982) and 48 FR 45502 (October 5, 1983). EPA believes that promulgation of this regulation complied with the statutory requirements for regulating total coliforms in all PWSs.

3) Interim Enhanced Surface Water Treatment Rule

SDWA Section 1412(b)(2)(c) requires EPA to promulgate an Interim Enhanced Surface Water Treatment Rule. The IESWTR sets the first drinking water standards to control *Cryptosporidium* in large systems.

4) Filter Backwash Recycling Rule

SDWA was amended in August 1996, resulting in the addition of new sections that establish new drinking water requirements. SDWA Section 1412(b)(14) requires the Administrator to promulgate a regulation to govern the recycling of filter backwash water within the treatment process of a PWS. The FBRR satisfies this regulatory requirement.

5) Long Term 1 Enhanced Surface Water Treatment Rule

SDWA Section 1412(b)(2)(C) established a number of regulatory deadlines, including two stages of the Enhanced Surface Water Treatment Rule (ESWTR). The LT1ESWTR is part of the first stage of the ESWTR. The LT1ESWTR strengthens the standards previously established under the SWTR and applies the standards set for *Cryptosporidium* in the IESWTR to small systems.

6) Long Term 2 Enhanced Surface Water Treatment Rule

The final LT2ESWTR was promulgated January 5, 2006. Implementation schedules vary by system size, but burden will include the following:

- Monitoring for *E. coli* and/or *Cryptosporidium* (usually monthly but biweekly for some small systems).
- PWSs must calculate a bin classification based on the monitoring results. This classification will be used to determine treatment requirements. Not all systems will calculate bin classification during the period covered by the revised ICR.
- PWSs must cover any uncovered finished water reservoirs or else provide further treatment and must develop a plan for doing so.
- PWSs that intend to make a significant change in their disinfection practice must develop a disinfection profile and benchmark for *Giardia* and viruses.
- States will review monitoring results and assist with and review bin classifications. They will also review documentation associated with covering or treating uncovered finished water reservoirs and with changing disinfection.
- 7) Ground Water Rule

The 1996 SDWA amendments required the Administrator to publish a national drinking water regulation requiring disinfection of ground water as necessary. The GWR sets conditions where disinfection of ground water is considered necessary. The final GWR was promulgated November 8, 2006. Burden will include the following:

- Ground water systems providing 4-log treatment of viruses must begin compliance monitoring to demonstrate treatment effectiveness.
- Ground water systems for which the state has identified a significant deficiency (during a sanitary survey) and systems that have confirmed fecal contamination of their source waters must comply with the treatment technique requirements and any associated reporting requirements.
- Ground water systems that do not provide 4-log treatment of viruses must conduct triggered source water monitoring if the system tests positive for total coliform in the distribution system under the TCR.
- Ground water systems will prepare for and participate in sanitary surveys.
- States will conduct sanitary surveys of ground water systems.
- States will track and file monitoring results and review any additional reporting required.

2(b) Use/Users of the Data

The information described in Section 4 of this ICR will be collected by EPA and made available to the public upon request, as required by the Freedom of Information Act (40 CFR Chapter 1 Part 2). In some cases, SDWA requires that the information be provided to the public or the primacy agency. Primary users of the data collected under this ICR are OGWDW, PWS managers, and primacy agencies, which include State regulators, Indian Tribes, and, in some instances, EPA Regional Administrators. Other users include the following—

- Staff from other EPA programs (such as Superfund, the Resource Conservation and Recovery Act, and the Office of Enforcement and Compliance Assurance)
- Federal Emergency Management Administration
- Centers for Disease Control and Prevention (CDC)
- Military bases
- Farmers Home Administration
- Department of Interior
- Department of Housing and Urban Development
- U.S. Army Corps of Engineers
- White House Task Forces
- American Water Works Association (AWWA)
- Association of Metropolitan Water Agencies (AMWA)
- National Rural Water Association (NRWA)
- National Association of Water Companies (NAWC)
- Association of State Drinking Water Administrators (ASDWA)
- Natural Resources Defense Council
- Consumers Federation of America
- News organizations

Primacy agencies maintain records compiled from PWS respondents (§142.14) and can use these records to track PWS monitoring, compliance violations, and enforcement activities. The primacy agency can also track schedules for PWSs trying to achieve compliance. Primacy agencies also report the number of violations, which will help them to target systems for compliance and take the necessary remedial action.

Primacy agencies report information on PWS violations to SDWIS. This Federal information system allows EPA and States to store and retrieve information over time. Trends in compliance data can be evaluated at the system, State, and national program levels. Usually, these data are used by the Agency for maintaining oversight and to support Federal enforcement actions in cases where States fail to enforce.

3 NON-DUPLICATION, CONSULTATIONS, AND OTHER COLLECTION CRITERIA

3(a) Non-duplication

EPA has made an effort to ensure that the data collection efforts associated with this ICR are not duplicated. EPA consulted with State environmental programs, other Federal agencies (such as the CDC), and regulated entities (such as PWSs and their representative trade associations). To the best of EPA's knowledge, data currently required by the SDWA (and its implementing regulations codified at 40 CFR Parts 141 and 142) are not available from any other source.

3(b) Public Notice Required Prior to ICR Submission to OMB

To comply with the 1995 Amendments to the PRA, EPA solicited public comment on this ICR for a 60-day period before it was submitted to OMB. Specifically, EPA published a notice in the Federal Register requesting comment on the estimated respondent burden and other aspects of this ICR (Appendix A). EPA did not receive any comments during the 60-day comment period.

3(c) Consultations

Throughout the development and implementation of various microbial regulations, OGWDW has held numerous meetings with interested stakeholders, including State and EPA Regional personnel and PWS representatives, to identify the value and ease of collecting information needed to fulfill SDWA obligations. As a standard regulatory development practice to promote public involvement, EPA formally solicits public comment on proposed drinking water rules. Before any rule is finalized, EPA logs and evaluates all written comments on proposed rules. Additionally, EPA usually holds public meetings during which any interested party may provide oral testimony for Agency consideration. Such meetings are typically announced in the Federal Register (FR) notice accompanying the proposed rule.

In the initial phases of program development, or to confirm assumptions on which rules or guidelines are based, EPA often augments formal meetings with other workshops or meetings to gather information. The following are specific examples of meetings and other consultations held by EPA to address the regulations contained in this ICR—

- In 1985, EPA held a workshop to discuss options for regulating microbial contaminants.
- In 1985, the Federal Register presented a discussion on the need for mandatory filtration and disinfection of surface water. This FR notice also requested public comment on the subject.
- A FR notice was published on May 6, 1988, to discuss additional alternatives for the proposed SWTR.
- The TCR was published on June 29, 1989. The 1989 TCR was reviewed as part of the six-year review of drinking water standards. EPA published its preliminary revise/do not revise decisions in the FR to request public comment (67 FR 19029-19090). EPA received and reviewed comments from 44 commenters. EPA held a

stakeholder meeting on May 30, 2002 to discuss the results of these preliminary findings.

- In 1992, EPA instituted a formal regulation negotiation (RegNeg) process to discuss proposed amendments to the SDWA with potentially affected parties (57 FR 53866; Nov. 13, 1992). This RegNeg Committee included representatives from water utilities and other industries, State public health and regulatory agencies, environmental groups, consumer groups, and EPA. The RegNeg Committee agreed that EPA should propose three rules: Information Collection Rule (finalized in 1996), a staged Enhanced Surface Water Treatment Rule, and a staged Disinfectants and Disinfection Byproducts Rule.
- A microbial contaminants and disinfection byproducts advisory committee, formed under the authority of the Federal Advisory Committees Act, convened in 1997 to review the data and assumptions used to support the 1994 proposed changes to the SWTR and data that had subsequently been collected. In July 1997, participants signed an agreement in principle, outlining the Committee's recommendations to EPA on the major components of the IESWTR and Stage 1 DBPR.
- Between March and December 1997, the Small System Data Needs Working Group held six meetings to discuss availability of water quality and financial data for small systems.
- Twenty-four small entity representatives (SERs) were invited to participate in a teleconference to discuss the FBRR and LT1ESWTR on April 28, 1998. Of the 24 invited SERs, 15 participated in the teleconference.
- On August 21, 1998, a Small Business Advocacy Review Panel (SBARP) met to discuss the proposed FBRR and LT1ESWTR. Two additional meetings of the SBARP were held between August 21 and October 19, 1998.
- In September 1998, the SBARP distributed information on regulatory approaches and costs to the SERs for review and comment.
- The SBARP and SERs participated in a joint teleconference on September 25, 1998.
- A Stage 2 Microbial Disinfectants and Disinfection Byproducts (M-DBP) Advisory Committee was formed under the authority of the Federal Advisory Committees Act. The committee represented a broad cross section of organizations and convened 14 times between March 1999 and February 2000.
- EPA held 3 meetings with representatives of small entities and one meeting with tribal representatives to discuss LT2ESWTR.
- In December 1997, EPA held a preliminary meeting on the GWR. After the initial meeting, five meetings were held throughout the country. Early involvement meetings were also held with State regulators. EPA also received input from small system operators.

As part of the revision of the Microbial Rules ICR, in early 2008 EPA consulted with representatives of PWSs and States regarding the accuracy of EPA's burden estimates. The groups consulted were NAWC, NRWA, AWWA, AMWA, and ASDWA. NAWC deferred to AMWA's and AWWA's comments, and NRWA did not submit any comments on the microbial rules. AWWA submitted written comments but did not provide revised estimates. AMWA and ASDWA both submitted revised burden estimates. EPA incorporated the input received into the models that estimate the burden for each rule addressed in this ICR. The end of each appendix to

the ICR contains a table summarizing EPA's previous and revised burden estimates for the relevant rule.

Since the regulations covered by this ICR are not new, the typical consultations, workshops, and meetings held for proposed rules were not held immediately prior to the development of this document.

3(d) Effects of Less Frequent Collection

EPA has considered a wide range of alternatives for frequency of data collection. Where possible, EPA has chosen to require the least frequent collection that remains consistent with overall public health protection objectives. If data are collected less frequently, the primacy agency may not identify in a timely fashion significant contaminant concentrations which might threaten the health and safety of drinking water consumers.

For some microbial contaminant regulations, the primacy agency has discretion in adjusting the monitoring schedules. Monitoring schedules vary based on the number of people served by a system, contaminants likely to be found, and source of raw water supply. The monitoring frequency design also considers that the number of people served affects exposure to contaminants, as well as the resources available to undertake monitoring activity. Monitoring frequencies have been carefully devised based on the following factors—

- Data quality needed for a representative sample.
- Precision and accuracy needed from the representative sample.
- Number of people served by the system.
- Source of the supply (e.g., surface water or ground water).
- Contaminants likely to be found.
- Historical variability in contaminant occurrence.

3(e) General Guidelines

This ICR was prepared in accordance with the November 2005 ICR Handbook prepared by EPA's Office of Environmental Information, Office of Information Collection, Collection Strategies Division. The ICR Handbook provides the most current instructions for ICR preparation to ensure compliance with the 1995 PRA amendments and OMB's implementing guidelines.

3(f) Confidentiality

No confidential information will be collected as a result of this ICR.

3(g) Sensitive Questions

No information of a sensitive nature will be collected as a result of this ICR.

4 RESPONDENTS AND INFORMATION REQUESTED

4(a) Respondents/NAICS Codes

Data associated with this ICR are collected and maintained at the PWS, State, and Federal levels. Respondents include—

- Owners/operators of PWSs, who must report to the primacy agency.
- Primacy agencies, which must report to EPA Headquarters.

The North American Industry Classification System (NAICS) code for PWSs is 22131. The NAICS code for State agencies that include drinking water programs is 92411 (Administration of Air and Water Resources and Solid Waste Management Programs) or 92312 (Administration of Public Health Programs). Ancillary systems (i.e., those that supplement the function of other establishments like factories, power plants, mobile home parks, etc.) cannot be categorized in a single NAICS code. For ancillary systems, the NAICS code is that of the primary establishment or industry.

4(b) Information Requested

Exhibits 2 and 3 summarize the respondent information collection requirements covered by the Microbial Rules ICR. These requirements are also discussed below.

Exhibit 2:	PWS Recordkeeping and Reporting Requirements
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Requirement	Regulatory Citation	Frequency/Retention	
General Requirements (apply to all regulations)			
Reporting			
Except where a different period is specified in an individual drinking water regulation, PWSs are required to submit the following to the State:			
Results of any test measurement or analysis required in 40 CFR Part 141.	40 CFR 141.31(a)	At the end of the required monitoring period	
Failure to comply with any NPDWR.	40 CFR 141.31(b) and (c)	As necessary, unless State lab performs analysis and reports results to State	
Copies of records required to be maintained under 141.33 and/or copies of documents that the State is entitled to under Section 1445 of SDWA or State law.	40 CFR 141.31(e)	As requested by the State	
Recordkeeping Except where a different period is specified in an individual drinking water regulation, PWSs are required to retain the following information:			
Records of bacteriological or chemical analyses and related information.	40 CFR 141.33(a)	5 years for bacteriological data; 10 years for chemical data	
Records of actions taken by the PWS to correct violations of NPDWRs.	40 CFR 141.33(b)	3 years after last action taken related to the violation	
Copies of any written reports, summaries, or communications relating to sanitary surveys.	40 CFR 141.33(c)	10 years	
Records concerning a variance or exemption granted.	40 CFR 141.33(d)	5 years following the expiration of the variance or exemption	
SWTR (all requirements except those reg	arding disinfection resid	ual monitoring)	
Unfiltered Systems – Reporting			
Report source water quality information to the State for each month the system serves water to the public.	40 CFR 141.75(a)(1)(i) through (ix)	Monthly	
Report to the State a summary of PWS compliance with all watershed control program requirements.	40 CFR 141.75(a)(3)	Annually	
Report to the State on the on-site inspection conducted during that year.	40 CFR 141.75(a)(4)	Annually	
Any waterborne disease outbreak potentially attributable to that water system must be reported to the State.	40 CFR 141.75(a)(5)(i)	As necessary, as soon as possible but not later than end of the next business day.	
Any time turbidity exceeds 5 Nephelometric Turbidity Units (NTU) the PWS must inform the State.	40 CFR 141.75(a)(5)(ii)	As necessary, as soon as practical but no later than 24 hours after learning of the exceedance.	
Filtered Systems – Reporting			
Report to the State turbidity measurements and associated information for each month the system serves water to the public.	40 CFR 141.75(b)(1)(i) through (iii)	Monthly	
Any time turbidity exceeds 5 NTU the PWS must inform the State.	40 CFR 141.75(b)(3)(ii)	As necessary, as soon as practical but no later than 24	

Requirement	Regulatory Citation	Frequency/Retention
		hours after learning of the exceedance.
Any waterborne disease outbreak potentially attributable to that water system must be reported to the State.	40 CFR 141.75(b)(3)(i)	As necessary, as soon as possible but not later than end of the next business day.
TCR		
Reporting	40 CEB 141 21(a)(1)	Ac 2000001/
Prepare written sample siting plan for State review.	40 CFR 141.21(a)(1)	As necessary
Notify the State if fecal coliforms or E. coli are present.	40 CFR 141.21(e)(1)	As necessary, by end of the day in which system receives results, or if state office is closed, by end of next business day.
Report to the State any exceedance of the MCL for total coliforms.	40 CFR 141.21(g)(1)	As necessary, by end of next business day.
Report to the State any failure to comply with coliform monitoring requirements.	40 CFR 141.21(g)(2)	As necessary, within 10 days after discovering the violation.
Recordkeeping		
Subject to general requirements as listed ab	ove.	
IESWTR		
Disinfection profiling - Recordkeeping		
A PWS must retain disinfection profile data	40 CFR 141.172(b)(6)	As necessary
in graphic form, as a spreadsheet, or in		
some other format acceptable to the State		
for review as part of sanitary surveys conducted by the State.		
Disinfection benchmarking - Reporting		
A PWS must submit information to the	40 CFR 141.172(c)(4)	As necessary
State as part of the required consultation		As necessary
process when making significant changes		
to disinfection practices.		
Filtration - Reporting	·	·
A PWS using alternative filtration	40 CFR 141.173(b)	As necessary
technologies must demonstrate to the		
State that the system achieves required		
removal/inactivation.		
A PWS must report combined filter effluent	40 CFR 141.175(a)(1)	Monthly
turbidity levels for each month that the	through (3)	
system serves water to the public.		Manatala
A PWS must report that it has conducted	40 CFR 141.175(b)	Monthly
individual filter turbidity monitoring for each month that the system serves water to the		
public.		
If certain measurement thresholds are	40 CFR 141.175(b)(1)	As necessary
exceeded, a PWS must report individual	through (4)	
filter turbidity measurements for each		
month that the system serves water to the		
public.		
Following certain exceedances, a PWS	40 CFR 141.175(b)(1)	As necessary
must report to the State the reason for the	and (2)	
exceedance or that is has produced a filter		
profile.		
Following certain exceedances, a PWS	40 CFR 141.175(b)(3)	As necessary
must report to the State that it has		
conducted a filter self-assessment.		

Requirement	Regulatory Citation	Frequency/Retention
Following certain exceedances, a PWS must submit to the State a comprehensive performance evaluation (CPE).	40 CFR 141.175(b)(4)	As necessary
If certain measurement thresholds are exceeded, systems must inform the State.	40 CFR 141.175(c)(1) and (2)	As necessary, as soon as possible but no later than the end of the next business day.
Filtration - Recordkeeping		
Systems must maintain the results of individual filter turbidity monitoring.	40 CFR 141.175(b)	3 years
Recordkeeping Collect and retain on file the following recycle flow information for review and evaluation by the State: 1) Copy of the recycle notification and information previously submitted to the State; 2) List of all recycle flows and the frequency with which they are returned; 3) Average and maximum backwash flow rate through the filters and the average and maximum duration of the filter backwash process in minutes; 4) Typical filter run length and a written summary of how filter run length is determined; 5) The type of treatment provided for the recycle flow; and 6) Data on the physical dimensions of the equalization and/or treatment units, typical and maximum hydraulic loading rates, type of treatment chemicals used and average dose and frequency of use, and frequency at which solids are removed, if applicable. LT1ESWTR	40 CFR 141.76(d)(1) through (6), 141.33	10 years
Reporting		
Report the total number and percentage of combined filter effluent (CFE) turbidity measurements that exceeded their 95th percentile turbidity limit. Report the turbidity levels for measurements that exceed their maximum turbidity limit.	40 CFR 141.550- 141.553	Monthly
Systems must report that they have conducted individual filter turbidity monitoring. If a system exceeds 1.0 NTU in two consecutive measurements the system must include the filter number, date, turbidity values, and reason for the exceedance at the end of the month.	40 CFR 141.560- 141.564	Monthly
If a self-assessment is required, the system must report the date that it was triggered and the date that it was completed.	40 CFR 141.560- 141.564	As necessary.
If a CPE is required, the system must report that the CPE is required and the date that it was triggered.	40 CFR 141.560- 141.564	As necessary.
If a CPE is required, the system must submit a copy of the completed CPE report.	40 CFR 141.560- 141.564	As necessary within 120 days after the CPE was triggered

Requirement	Regulatory Citation	Frequency/Retention
Report a description of the proposed	40 CFR 141.540-	As necessary
change in disinfection, the system's	141.544	
disinfection profile for Giardia lamblia (and,		
if necessary, viruses) and disinfection		
benchmark, and an analysis of how the		
proposed change will affect the current		
levels of disinfection.		
Recordkeeping	•	
Records of CFE turbidity monitoring	40 CFR 141.550-	At least 3 years
measurements.	141.553	
Records of individual filter turbidity	40 CFR 141.560-	At least 3 years
monitoring measurements.	141.564	
Records of disinfection profiles (including	40 CFR 141.530-	Indefinitely
raw data and analysis).	141.536	
Records of disinfection benchmarking	40 CFR 141.540-	Indefinitely
(including raw data and analysis).	141.544	
LT2ESWTR	•	
Reporting		
Results of E. coli and Cryptosporidium (and	40 CFR 141.706(a)	Monthly while monitoring is
turbidity, if applicable) source water		required
monitoring		
Bin classification (or mean Cryptosporidium	40 CFR 141.710(e)(1)-	6 months after source water
level for unfiltered systems)	(e)(2), 141.712	monitoring is complete
Use of uncovered finished water reservoirs	40 CFR 141.714(b)	One time, by April 1, 2008.
and a schedule for covering or disinfecting		
them.		
Systems installing technology must	40 CFR 141.715	Varies
demonstrate compliance with technology		
based criteria.		
Systems changing disinfection practices	40 CFR 141.708-	As necessary
must develop a disinfection profile and	141.709	
benchmark for Giardia and viruses		
Sampling schedule	40 CFR 141.702	Once prior to initial monitoring
		and once during second round of
		monitoring
Recordkeeping		
Records of sample results for	40 CFR 141.706	At least 3 years
Cryptosporidium, E. coli and turbidity.		
Systems changing technologies must	40 CFR 141.708	At least 3 years
complete a disinfection profile for Giardia		
and viruses.		
Results of treatment monitoring associated	40 CFR 141.722	At least 3 years
with microbial toolbox and with UCFWRs		
Notification that systems will not conduct	40 CFR 141.722	At least 3 years
source water monitoring due to having 5-		
log treatment in place		
GWR	T	
Reporting		
A PWS conducting compliance monitoring	40 CFR 141.405(a)	As soon as possible but no later
must notify the State any time the system		than the close of the next
fails to meet any State-specified		business day.
requirements including, but not limited to,		
minimum residual disinfectant		
concentration, membrane operating criteria		
or membrane integrity, and alternative		

Requirement	Regulatory Citation	Frequency/Retention
treatment operating criteria, if operation in accordance with the criteria or requirements is not restored within 4 hours.		
After completing any corrective action, a PWS must notify the State of completion of the corrective action	40 CFR 141.405(a)	Within 30 days.
If a PWS with a positive TCR sample does not conduct source water monitoring, the system must provide documentation to the State that it met the State criteria for avoiding monitoring.	40 CFR 141.405(a)	Within 30 days
Recordkeeping		
Records of corrective actions	40 CFR 141.405(b)	At least 10 years
Reports of public notification	40 CFR 141.405(b)	At least 3 years
Documentation of records of decisions and records of invalidation of fecal indicator- positive ground water source samples.	40 CFR 141.405(b)	At least 5 years
For consecutive systems, documentation of notification to the wholesale system(s) of total-coliform positive samples that are not invalidated	40 CFR 141.405(b)	At least 5 years
Records of the State-specified minimum disinfectant residual	40 CFR 141.405(b)	At least 10 years
Records of the lowest daily residual disinfectant concentration and records of the date and duration of any failure to maintain the State-prescribed minimum residual disinfectant concentration for a period of more than 4 hours	40 CFR 141.405(b)	At least 5 years
Records of State-specified compliance requirements of membrane filtration and of parameters specified by the State for State-approved alternative treatment and records of the date and duration of any failure to meet the membrane operating, membrane integrity, or alternative treatment operating requirements for more than 4 hours	40 CFR 141.405(b)	At least 5 years

Exhibit 3 Primacy Agency Recordkeeping and Reporting Requirements

Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
General Requirements (apply to all regu	lations)	
Reporting		
Submit reports to the Administrator	40 CFR 142.15(a)(1) and	Quarterly
containing new violations by PWS and	(2)	
new enforcement actions by States that		
occurred during the previous quarter.		
Recordkeeping		Veries (actions then ensure)
Maintain records of tests, measurements,	40 CFR 142.14(a)	Varies (not less than one year)
analyses, decisions, and determinations performed on each PWS to determine		
compliance with applicable provisions of		
State primary drinking water regulations.		
Retain files, which shall include for each	40 CFR 142.14(d)(2) and	12 years
PWS in the State reports of sanitary	(3)	
surveys, records of any State approvals,	(0)	
and records of any enforcement actions.		
SWTR (all requirements except those reg	garding disinfection residua	al monitoring)
Reporting		
A list identifying the name, PWS	40 CFR 142.15(c)(1)(i)(A)	As necessary
identification number and date of the		
determination for each PWS that the State		
has determined is not required to provide		
filtration treatment.		
A list identifying the name and PWS	40 CFR 142.15(c)(1)(i)(B)	As necessary
identification number of each PWS that		
the State has determined has no means		
of having a sample transported and		
analyzed for heterotrophic plate count		
(HPC) by a certified laboratory under the requisite time and temperature conditions		
and is providing adequate disinfection in		
the distribution system.		
Notification of any determination that a	40 CFR 142.15(c)(1)(ii)	As necessary within 60 days of
PWS is not required to provide filtration	40 01 10 142.10(0)(1)(1)	the end of the calendar quarter
treatment.		
Recordkeeping		1
Records of microbiological analyses.	40 CFR 142.14(a)(1)	1 year
Records of microbiological analyses of	40 CFR 142.14(a)(2)	1 year
repeat or special samples.		-
Records of turbidity measurements.	40 CFR 142.14(a)(3)	1 year
Records of decisions made on a system-	40 CFR 142.14(a)(4)(ii)	Varies
by-system and case-by-case basis under		
provisions of part 141, subpart H, subpart		
P, or subpart T must be made in writing		
and kept at the State.		

Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
Records of any decision to allow a PWS to substitute a turbidity limit, sample at alternate locations, use continuous monitoring (for unfiltered systems), or reduce sampling or reporting.	40 CFR 142.14(a)(4)(ii)(A)(1) through (5),(7),(8)	40 years or until 1 year after the decision is reversed or revised
Records of any decision that a violation of the total coliform MCL was not caused by a deficiency in treatment of the source water.	40 CFR 142.14(a)(4)(ii)(B)(3)	One year after the decision is made
Records of any decision that total coliform monitoring otherwise required because the turbidity of the source water exceeds 1 NTU is not feasible, except that if such decision allows a system to avoid monitoring without receiving State approval in each instance.	40 CFR 142.14(a)(4)(ii)(B)(4)	One year after the decision is made
Records of any decision that a public water system's watershed control program meets the requirements of 141.71(b)(2).	40 CFR 142.14(a)(4)(ii)(C)(3)	Until the next decision is available and filed
Records of any decision that an individual is a qualified operator for a PWS using a surface water source or a ground water source under the direct influence of surface water	40 CFR 142.14(a)(4)(ii)(C)(4)	Until the qualification is withdrawn
Records of any decision that a party other than the State is approved by the State to conduct on-site inspections.	40 CFR 142.14(a)(4)(ii)(C)(5)	Until the decision is withdrawn
Records of any decision that an unfiltered PWS has been identified as the source of a waterborne disease outbreak, and, if applicable, that it has been modified sufficiently to prevent another such occurrence. A copy of the decision must be provided to the system.	40 CFR 142.14(a)(4)(ii)(C)(6)	Until filtration treatment is installed
Records of any decision that certain interim disinfection requirements are necessary for an unfiltered PWS for which the State has determined that filtration is necessary, and a list of those requirements. A copy of the requirements must be provided to the system.	40 CFR 142.14(a)(4)(ii)(C)(7)	Until filtration treatment is installed
Records of any decision that automatic shut-off of delivery of water to the distribution system of an unfiltered PWS would cause an unreasonable risk to health or interfere with fire protection.	40 CFR 142.14(a)(4)(ii)(C)(8)	Until rescinded

Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
Records of any decision that a PWS may use alternative filtration technology because they consistently achieve 99.9 percent removal and/or inactivation of <i>Giardia lamblia</i> cysts and 99.99 percent removal and/or inactivation of viruses. A copy of the decision must be provided to the PWS.	40 CFR 142.14(a)(4)(ii)(C)(11)	Until the decision is reversed or revised
Records of any decision that a system using a ground water source is under the direct influence of surface water.	40 CFR 142.14(a)(4)(ii)(C)(14)	40 years
Records of any determination that a PWS supplied by a surface water source or a ground water source under the direct influence of surface water is not required to provide filtration treatment. A copy of the determination must be provided to the system.	40 CFR 142.14(a)(4)(ii)(C)(14)(iii)	40 years or until withdrawn, whichever is earlier
Records of analysis for other than microbiological contaminants (including total coliform, fecal coliform, and heterotrophic plate count), residual disinfectant concentration, other parameters necessary to determine disinfection effectiveness. Special Primacy Requirements	40 CFR 142.14(a)(6)	12 years
An application for approval of a State program revision that adopts 40 CFR part 141, subpart H Filtration and Disinfection.	40 CFR 142.16(b)	One time
TCR Benerting		
Reporting Reports to the Administrator containing a list of PWSs that the State is allowing to monitor less frequently than once per month for CWSs or less frequently than once per quarter for Noncommunity Water Systems (NCWSs).	40 CFR 142.15(c)(2)	One time; update as needed
Recordkeeping		
Records of microbiological analyses. Records of microbiological analyses of repeat or special samples.	40 CFR 142.14(a)(1) 40 CFR 142.14(a)(2)	1 year 1 year
Records of any decision to waive the 24- hour time limit for collecting repeat samples after a total coliform-positive routine sample.	40 CFR 142.14(a)(5)(i)(A)	5 years
Records of any decision to allow a system to waive the requirement for five routine samples the month following a total coliform-positive sample.	40 CFR 142.14(a)(5)(i)(B)	5 years
Records of any decision to invalidate a	40 CFR 142.14(a)(5)(i)(C)	5 years
total coliform-positive sample. Records of any decision to reduce the total coliform monitoring frequency for certain CWSs to less than once per	40 CFR 142.14(a)(5)(ii)(A)	Retain in such a manner that a system's current status may be determined

Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
month. A copy of the reduced frequency		
decision must be provided to the system.		
Records of any decision to reduce the	40 CFR 142.14(a)(5)(ii)(B)	Retain in such a manner that a
total coliform monitoring frequency for		system's current status may be
certain NCWSs to less than once per		determined
quarter. A copy of the reduced frequency		
decision must be provided to the system.		
Records of any decision to reduce the	40 CFR 142.14(a)(5)(ii)(C)	Retain in such a manner that a
total coliform monitoring frequency for		system's current status may be
certain NCWSs during any month the		determined
system serves 1,000 persons or fewer. A		
copy of the reduced frequency must be		
provided to the system.		
Records of any decision to waive the 24-	40 CFR 142.14(a)(5)(ii)(D)	Retain in such a manner that a
hour limit for taking a total coliform sample		system's current status may be
for PWSs that do not practice filtration in		determined
accordance with part 141, subpart H, and		
that measure a source water turbidity level		
exceeding 1 NTU near the first service		
connection.		
Records of any decision that certain	40 CFR 142.14(a)(5)(ii)(E)	Retain in such a manner that a
NCWSs may reduce the frequency of their		system's current status may be
sanitary survey to less than once every		determined
five years and what that frequency is. A		
copy of the reduced frequency decision		
must be provided to the system.		
A list of agents other than the State, if	40 CFR 142.14(a)(5)(ii)(F)	Retain in such a manner that a
any, approved by the State to conduct		system's current status may be
sanitary surveys.		determined
Records of any decision to allow a PWS	40 CFR 142.14(a)(5)(ii)(G)	Retain in such a manner that a
to forgo fecal coliform or <i>E. coli</i> testing on		system's current status may be
a total coliform-positive sample if that		determined
system assumes that the total coliform-		
positive sample is fecal coliform-positive		
or <i>E. coli</i> -positive.		
IESWTR	L	
Reporting		
A list of subpart H systems that have had	40 CFR 142.15(c)(5)	Annually
a sanitary survey completed during the		
previous year and an annual evaluation of		
the State's program for conducting		
sanitary surveys.		
Recordkeeping	I	4
Records of microbiological analyses.	40 CFR 142.14(a)(1)	1 year
Records of microbiological analyses of	40 CFR 142.14(a)(1)	1 year
repeat or special samples.		
Records of turbidity measurements.	40 CFR 142.14(a)(3)	1 year
Records of decisions made on a system-	40 CFR 142.14(a)(3)	
by-system and case-by-case basis under	+0 OFN 142.14(d)(4)(11)	As necessary
provisions of part 141, subpart H, subpart		
P, or subpart T.		
Records of systems consulting with the	40 CFR 142.14(a)(7)(i)	As necessary
State concerning a significant modification		
to their disinfection practice (including the		
status of the consultation).		

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Records of decisions that a system using alternative filtration technologies can consistently achieve a 2-log (99 percent) removal of <i>Cryptosportidum</i> occysts, as well as the required levels of removal and/or inactivation of <i>Giardia</i> and viruses for systems using alternative filtration technologies. As necessary, kept until decision is reversed or revised. Records of systems required to conduct a filter self-assessment, CPE or composite correction program (CCP). 40 CFR 142.14(a)(7)(iii) As necessary <i>FBRR</i> Records of systems required to conduct a filter self-assessment during assessment during asimilary surveys 40 CFR 142.14(a)(7)(iii) As necessary. <i>FBRR</i> Records of systems required to conduct a filter self-assessment during assessment during asimilary surveys 40 CFR 142.14(a)(7)(iii) As necessary. <i>FBRR</i> Records of ny decisions made to approve alternate recycle locations 40 CFR 142.14(a)(4)(ii)(A)(9) 40 years or until 1 year after decision is reversed or revised <i>Records of systems</i> Records of infectant requirements as listed above. Records of infectant residual measurements. 40 CFR 142.14(a)(4)(ii) Not less than one year Records of disinfectant residual measurements. 40 CFR 142.14(a)(4)(ii) Not less than one year 40 CFR 142.14(a)(7)(ii) As necessary Records of decisions made on a system-provisions of part 141, subpart H, subpart H, or paratice (including the status of the consultation). 40 CFR 142.14(a)(7)(ii) As neces	Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
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Records of those systems required to conduct a filter self-assessment, CPE or CCP.40 CFR 142.14(a)(7)(iii)As necessaryLT2ESWTRReportingThe bin classification after the initial and after the second round of source water monitoring for each filtered system40 CFR 142.15(c)(6)After each round of monitoringAny change in treatment requirements for these systems due to watershed assessment during sanitary surveys40 CFR 142.15(c)(6)After each round of monitoring	alternative filtration technologies can consistently achieve a 2-log (99 percent) removal of <i>Cryptosporidium</i> oocysts, as well as the required levels of removal and/or inactivation of <i>Giardia</i> and viruses for systems using alternative filtration	40 CFR 142.14(a)(7)(ii)	As necessary
Reporting40 CFR 142.15(c)(6)After each round of monitoringThe bin classification after the initial and after the second round of source water monitoring for each filtered system40 CFR 142.15(c)(6)After each round of monitoringAny change in treatment requirements for these systems due to watershed assessment during sanitary surveys40 CFR 142.15(c)(6)After each round of monitoring	Records of those systems required to conduct a filter self-assessment, CPE or CCP.	40 CFR 142.14(a)(7)(iii)	As necessary
The bin classification after the initial and after the second round of source water monitoring for each filtered system40 CFR 142.15(c)(6)After each round of monitoringAny change in treatment requirements for these systems due to watershed 			
Any change in treatment requirements for these systems due to watershed assessment during sanitary surveys40 CFR 142.15(c)(6)After each round of monitoring	The bin classification after the initial and after the second round of source water	40 CFR 142.15(c)(6)	After each round of monitoring
	Any change in treatment requirements for these systems due to watershed	40 CFR 142.15(c)(6)	After each round of monitoring
= 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	The determination of whether the mean	40 CFR 142.15(c)(6)	As necessary

Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
<i>Cryptosporidium</i> level is greater than 0.01 oocysts/L both after the initial and after the second round of source water monitoring for each unfiltered system		
Recordkeeping		
Results of <i>Cryptosporidium</i> and <i>E. coli</i> source water monitoring	40 CFR 142.14(a)(9)	As necessary
Bin classification after the first and second round of monitoring	40 CFR 142.14(a)(9)	As necessary
Any change in treatment requirements for filtered systems due to watershed assessment during sanitary surveys	40 CFR 142.14(a)(9)	As necessary
The determination of whether the mean <i>Cryptosporidium</i> level is greater than 0.01 oocysts/L after the initial and after the second round of source water monitoring for each unfiltered system	40 CFR 142.14(a)(9)	As necessary
The treatment processes or control measures that systems use to meet their <i>Cryptosporidium</i> treatment requirements	40 CFR 142.14(a)(9)	As necessary
A list of systems required to cover or treat the effluent of an uncovered finished water storage facility	40 CFR 142.14(a)(9)	As necessary
GWR		
Reporting		
The month and year in which the most recent sanitary survey was completed or, for a State that used a phased review process, the date the last element of the applicable eight elements was evaluated for each ground water system	40 CFR 142.15(c)(7)	As necessary
The date the system completed the corrective action	40 CFR 142.15(c)(7)	As necessary
All ground water systems providing at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal) before or at the first customer for any ground water source(s).	40 CFR 142.15(c)(7)	As necessary
Recordkeeping		
Records of written notices of significant deficiencies	40 CFR 142.14(d)(17)	At least 12 years
Records of corrective action plans, schedule approvals, and State-specified interim measures	40 CFR 142.14(d)(17)	At least 12 years
Records of confirmations that a significant deficiency has been corrected or the fecal contamination in the ground water source has been addressed	40 CFR 142.14(d)(17)	At least 12 years
Records of State determinations and records of ground water system's documentation for not conducting triggered source water monitoring	40 CFR 142.14(d)(17)	At least 12 years
Records of invalidations of fecal indicator- positive ground water source samples	40 CFR 142.14(d)(17)	At least 12 years
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Requirement	Regulatory Citation	Minimum Frequency/ Retention Period
Records of State approvals of source water monitoring plans	40 CFR 142.14(d)(17)	At least 12 years
Records of notices of the minimum residual disinfections concentration (when using chemical disinfection) needed to achieve at least 4-log virus inactivation before or at the first customer	40 CFR 142.14(d)(17)	At least 12 years
Records of notices of the State-specified monitoring and compliance requirements (when using membrane filtration or alternative treatment) needed to achieve at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log inactivation and removal) before or at the first customer	40 CFR 142.14(d)(17)	At least 12 years
Records of written notices from the ground water system that it provides at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal) before or at the first customer for each ground water source	40 CFR 142.14(d)(17)	At least 12 years
Records of written determinations that the ground water system may discontinue 4- log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log inactivation and removal)	40 CFR 142.14(d)(17)	At least 12 years

4(b)(i) Data Items

1) Surface Water Treatment Rule⁶

Provisions of the SWTR require the following data to be collected by PWSs-

- Source water coliform data for unfiltered systems.
- Turbidity data for filtered and unfiltered systems.
- Residual disinfectant concentrations for filtered and unfiltered systems. (This requirement is addressed under the DDBP/Chems/Rads ICR.)
- Annual summaries of watershed control programs for unfiltered systems.
- Annual reports summarizing the results of on-site inspections for unfiltered systems.
- A report to the primacy agency within 48 hours following attribution of any
- waterborne disease outbreak in filtered and unfiltered systems.

⁶ Includes all rule components except disinfectant residual monitoring and associated activities, which are included in the DDBP/Chem/Rads Rules ICR (see footnote 2 for more information). All remaining SWTR requirements are included in this Microbial Rules ICR.

In addition, primacy agencies must submit special reports as specified in \$142(15)(c). These reports include—

- List of PWSs not required to provide filtration.
- List of PWSs not required to analyze for HPC.
- Notification of determination that a PWS is not required to provide
- filtration.

2) Total Coliform Rule

The TCR requires PWSs to collect and report presence or absence of coliform bacteria (as total coliform) in the distribution system and data on the presence or absence of *E. coli* or fecal coliform. Primacy agencies must maintain results of sanitary surveys conducted under TCR.

In addition, primacy agencies must submit special reports as specified in \$142(15)(c) and must maintain records as specified in \$142(14)(a)(5). These reports include lists of PWSs that have received permission for reduced monitoring or monitoring waivers and the effective dates of these waivers.

3) Interim Enhanced Surface Water Treatment Rule

EPA must balance the health risks from microbial organisms (such as *Giardia lamblia* and *Cryptosporidium*) against risks from compounds formed during water disinfection. The Interim Enhanced Surface Water Treatment Rule (IESWTR) and Stage 1 Disinfectants and Disinfection Byproducts Rule (DBPR), which were promulgated concurrently, address complex and interrelated drinking water issues. The IESWTR requires individual filter monitoring and modifies the turbidity levels specified in the SWTR.

Under the IESWTR, PWSs must report the following-

- List of PWSs not required to provide filtration.
- The total number of combined filter effluent (CFE) turbidity measurements that exceeded their 95th percentile turbidity limit and the number of measurements that exceed their maximum turbidity limit.
- That they have conducted individual filter turbidity monitoring, including the dates, filter number, and turbidities of any measurements that exceed 1.0 NTU.
- Reports of exceptions to turbidity performance for individual filters.
- If a self-assessment is required, the system must report the date that it was triggered and the date that it was completed.
- If a comprehensive performance evaluation (CPE) is required, the system must report that the CPE is required and the date that it was triggered.
- If a CPE is required, the system must submit a copy of the completed CPE report.
- When those systems that are required to develop a disinfection profile plan a significant change in disinfection practice, they must submit the profile, along with an analysis of how the proposed change will affect the current disinfection benchmark to the State for review.

The IESWTR requires PWSs to keep the following records—

Individual filter turbidity measurements.

The IESWTR (in §142.14) requires primacy agencies to maintain the following items—

- Records of turbidity measurements for individual filters. •
- Records of disinfectant residual measurements and other parameters necessary to • document disinfection effectiveness.
- A list of systems consulting with the State to modify their disinfection practices.
- A record of State decisions regarding the use of alternative filtration technologies • that have demonstrated 99 percent removal of Cryptosporidium oocysts by specific water systems.
- Records of any other system-by-system and case-by-case decisions made by the • State under provisions of Section 141, subpart H or subpart P or subpart T.
- Records of those systems required to perform filter self-assessments, CPEs, or • composite correction program (CCP).

Additionally, the primacy agency must report the following (per §142.15)—

- Subpart H⁷ systems that have had a sanitary survey in the last year. •
- Evaluation of the State's program for conducting sanitary surveys for all Subpart • H systems.

4) Filter Backwash Recycling Rule

Under the FBRR, PWSs should already have reported the following, but they must keep records of the reported information on file-

- Recycle notification, which includes plant schematic, recycle flow, and plant • flow.
- List of all recycle flows and the frequency with which they are returned.
- Average and maximum backwash flow rates through the filters.
- Average and maximum duration of the filter backwash process. •
- Typical filter run length and a written summary of how filter run length is determined.
- Type of treatment provided for the recycle flow.
- Data on the physical dimensions of the equalization and/or treatment units, typical and maximum hydraulic loading rates, type of treatment chemicals used, average dose of treatment chemicals, frequency of treatment chemical use, and frequency at which solids are removed, if applicable.

Primacy agencies must maintain records of decisions regarding alternate recycle locations at PWSs.

⁷ Subpart H systems include all PWSs using surface water or ground water under the direct influence of surface water (GWUDI) as a source (40 CFR §141.2). OMB DRAFT—Do not Cite, Quote, or Distribute

5) Long Term 1 Enhanced Surface Water Treatment Rule

Under LT1ESWTR, PWSs must report the following-

- The total number of CFE turbidity measurements that exceeded their 95th percentile turbidity limit and the number of measurements that exceed their maximum turbidity limit.
- That they have conducted individual filter turbidity monitoring, including the dates, filter number, and turbidities of any measurements that exceeded 1.0 NTU.
- If a system exceeds 1.0 NTU in two consecutive measurements the system must include the filter number, date, time, and reason for the exceedance at the end of the month.
- Reports of exceptions to turbidity performance for individual filters.
- If a self-assessment is required, the system must report the date that it was triggered and the date that it was completed.
- If a CPE is required, the system must report that the CPE is required and the date that it was triggered.
- If a CPE is required, the system must submit a copy of the completed CPE report. Results of optional monitoring that show total trihalomethane (TTHM) levels <0.064 mg/L and haloacetic acid (HAA5) levels <0.048 mg/L (only if the system wishes to forgo profiling) or report that disinfection profiling has begun.
- A description of the proposed change in disinfection, the system's disinfection profile for *Giardia lamblia* (and, if necessary, viruses) and disinfection benchmark, and an analysis of how the proposed change will affect the current levels of disinfection.

The PWS recordkeeping requirements under the rule include-

- Records of individual filter turbidity measurements.
- Records of disinfection profiles.
- Records of benchmarking.

Currently, States are subject to the general reporting requirements under 40 CFR, Section 142.15. There are no additional reporting requirements under this rule.

The additional State recordkeeping requirements under LT1ESWTR include—

- Records of turbidity measurements for individual filters.
- Records of disinfectant residual measurements and other parameters necessary to
- document disinfection effectiveness.
- A list of systems consulting with the State to modify their disinfection practices.
- A record of State decisions regarding the use of alternative filtration technologies
- that have demonstrated 99 percent removal of Cryptosporidium oocysts by
- specific water systems.
- Records of any other system-by-system and case-by-case decisions made by the
- State under provisions of Section 414, subpart H or subpart P or subpart T.

- Records of those systems required to perform filter self-assessments, CPE, or
- CCP.
- 6) Long Term 2 Enhanced Surface Water Treatment Rule

PWSs must submit the following information-

Sampling schedule, including sampling location(s) and planned dates for source water sampling (for initial and second round monitoring).

For systems that filter and serve 10,000 or more (part of this activity occurred during the previous ICR clearance period):

- Monthly *E. coli* and *Cryptosporidium* monitoring results, to be taken over a period of 2 years, plus two matrix spike samples for *Cryptosporidium*.
- Monthly turbidity monitoring results (sampled concurrently with *Cryptosporidium* and *E. coli*).

For small systems (serving fewer than 10,000 people) that filter:

- Biweekly *E. coli* monitoring results, to be taken over a period of 1 year. (Part of this monitoring occurred during the previous ICR clearance period.)
- If system exceeds the *Cryptosporidium* monitoring trigger based on *E. coli* monitoring results, then 24 *Cryptosporidium* samples, plus two matrix spike samples for *Cryptosporidium*.

For unfiltered systems, 24 *Cryptosporidium* samples over a period of 2 years for large systems and 1 or 2 years for small systems, plus two matrix spike samples for *Cryptosporidium* (some of this monitoring occurred during the previous ICR clearance period.)

For filtered systems, bin classifications must be reported to the State. All unfiltered systems must report their mean *Cryptosporidium* levels to the State.

For systems with uncovered finished water reservoirs (UCFWRs), a schedule to cover the reservoir or disinfect the reservoir effluent (this was completed in the previous ICR clearance period).

PWSs of all sizes that propose to make a significant change to their disinfection practice will complete disinfection profiles and benchmarks for *Giardia lamblia* and viruses and report these, along with a description of the proposed change in disinfection practice and an analysis of how the proposed change will affect the current level of disinfection (some of this burden will occur outside the ICR clearance period).

PWSs of all sizes that install new technology as a result of their bin classifications or choose to disinfect the effluent from an UCFWR will be required to demonstrate compliance with certain criteria for each technology. (This reporting will occur outside the ICR clearance period).

PWSs must keep all monitoring data collected under the LT2ESWTR on file for 3 years. These data must be available for review during sanitary surveys.

States will be required to maintain the following data—

- Results of initial and reassessment source water monitoring for small systems
- Initial bin classifications for each filtered system and mean *Cryptosporidium* level for each unfiltered system
- Records of toolbox treatment technologies that systems choose to meet their treatment technique requirements, plus any changes in toolbox treatment technologies, including all documentation necessary to demonstrate compliance with required design and implementation criteria for receiving log credit for toolbox options
- Any changes to initial bin classifications based on watershed assessment during sanitary surveys
- Records of technologies employed by unfiltered systems to meet virus, *Giardia*, and *Cryptosporidium* inactivation requirements
- List of systems required to cover or treat effluent of an UCFWR

States must report the following to EPA-

- Initial bin classification for each filtered system and any changes in bin
- classifications. Mean *Cryptosporidium* level for each unfiltered system.
 Any finding that a system is not meeting its required *Cryptosporidium* treatment level.
 - 7) Ground Water Rule

PWSs must report or provide the following additional information (40 CFR 141.405)(a)-

- Failure to meet any State-specified requirements including minimum residual disinfectant concentration, membrane operating criteria or membrane integrity, and alternative treatment operating criteria, if operation in accordance with the criteria or requirements is not restored within 4 hours.
- Completion of corrective action (within 30 days of completion)
- Documentation to the State within 30 days of a total coliform-positive sample that a PWS met the State criteria that exempt the system from source water monitoring requirements.

PWSs must keep records of the following (40 CFR 141.405)(b)-

- Documentation of corrective actions
- Documentation of notice to the public
- Documentation of records of decisions and records of invalidation of fecal indicatorpositive ground water source samples
- For consecutive systems, documentation of notification to the wholesale system(s) of total-coliform positive samples that are not invalidated
- For systems, including wholesale systems, that are required to perform compliance monitoring, the following additional requirements include:
 - Records of the State-specified minimum disinfectant residual
 - Records of the lowest daily residual disinfectant concentration and records of the date and duration of any failure to maintain the State-prescribed minimum residual disinfectant concentration for a period of more than 4 hours
 - Records of State-specified compliance requirements of membrane filtration and of parameters specified by the State for State-approved alternative treatment and records of the date and duration of any failure to meet the membrane operating, membrane integrity, or alternative treatment operating requirements for more than 4 hours

For records kept by the States, the additional requirements include (40 CFR 142.14)(d)(17):

- Records of written notices of significant deficiencies.
- Records of corrective action plans, schedule approvals, and State-specified interim measures.
- Records of confirmations that a significant deficiency has been corrected or the fecal contamination in the ground water source has been addressed.
- Records of State determinations and records of ground water system's documentation for not conducting triggered source water monitoring.
- Records of invalidations of fecal indicator-positive ground water source samples.
- Records of State approvals of source water monitoring plans.
- Records of notices of the minimum residual disinfections concentration (when using chemical disinfection) needed to achieve at least 4-log virus inactivation before or at the first customer.
- Records of notices of the State-specified monitoring and compliance requirements (when using membrane filtration or alternative treatment) needed to achieve at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log inactivation and removal) before or at the first customer.
- Records of written notices from the ground water system that it provides at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal) before or at the first customer for each ground water source.
- Records of written determinations that the ground water system may discontinue 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log inactivation and removal).

Additionally, the State must report the following (40 CFR 142.15):

- The month and year in which the most recent sanitary survey was completed or, for a State that used a phased review process, the date the last element of the applicable eight elements was evaluated for each ground water system.
- The date the system completed the corrective action.
- All ground water systems providing at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal) before or at the first customer for any ground water source(s).

4(b)(ii) Respondent Activities

PWSs and primacy agencies must complete the activities described in the sections below.

Public Water Systems

In general, each PWS is involved in the following collection activities-

- Gathering information.
- Processing, compiling, and reviewing the information collected.
- Submitting reports and other documents.
- Recording and maintaining the information.

For this ICR, these activities are necessary to complete monitoring, reporting, and recordkeeping requirements associated with microbial contaminant-related regulations.

1) Surface Water Treatment Rule

Requirements for reporting under the SWTR are separated into those for systems that use filtration treatment and those for systems that do not use filtration treatment. The reporting requirements for these types of PWSs are summarized in the paragraphs below.

Unfiltered Systems

- Monitor and report information on the results of source water monitoring for total or fecal coliform and turbidity.
- Submit this information each month that the system is in operation.
- Summarize fecal or total coliform monitoring by including the number of total or fecal coliform samples collected; the values obtained for each measurement; the number of results less than 20/100 milliliters (ml) for fecal coliform or less than 100/100 ml for total coliform during the month; the cumulative number of fecal or total coliform results obtained since the start of the six consecutive month compliance period; and the percent of samples less than the respective performance standard for the six-month compliance period.
- Summarize turbidity information to include values obtained for each measurement of CFE; the value and date of each measurement that exceeded five NTUs; and when the system informed its customers to boil their water.

• Monitor and report disinfectant residual levels (this requirement is addressed under the DBP/Chem/Rads ICR).

Filtered Systems

- Monitor and report to the State on a monthly basis information regarding CFE turbidity. Turbidity reporting requirements vary according to the filtration technology used.
- Monitor and report disinfectant residual levels (this requirement is addressed under the DBP/Chem/Rads ICR).

2) Total Coliform Rule

PWSs must conduct the following activities to comply with the TCR-

- Collect water samples at specified intervals, as defined in the Federal or State regulations.
- Collect monitoring data on the presence of total coliform bacteria in the distribution system.
- Collect data on the presence or absence of *E. coli* or fecal coliform, following a positive routine total coliform sample.
- Report laboratory results and violations to the State at frequencies required by
- Federal and State regulations.
- *3) Interim Enhanced Surface Water Treatment Rule*

The IESWTR only applies to systems serving at least 10,000 people using surface water or GWUDI; these PWSs are required to do the following—

- Conduct continuous monitoring of individual filter turbidity for each filter in the system.
- Report individual filter turbidity monitoring results to the State at frequencies specified in the Federal regulations.
- Report exceptions to the State in cases where the monitoring shows exceedances of specific turbidity levels.
- Perform a filter profile, filter assessment, or a CPE if warranted.
- Provide a CPE report to the State if necessary.
- 4) Filter Backwash Recycling Rule
 - The rule requires all PWSs to collect and retain on file recycle flow information for review and evaluation by the State beginning June 8, 2004 (40 CFR, Section 141.76(d)).

5) Long Term 1 Enhanced Surface Water Treatment Rule

Under the LT1ESWTR, PWSs are required to do the following-

- Conduct continuous monitoring of individual filter turbidity for each filter in the system.
- Record individual filter turbidimeter readings at the specified intervals.
- Report individual filter turbidity monitoring results to the State at frequencies specified in the Federal regulations.
- Report exceptions to the primacy agency in cases where the monitoring shows exceedances of specific turbidity levels.
- Perform a filter profile, filter assessment, or a CPE if warranted.
- Provide a CPE report to the State if necessary.
- Develop a disinfection benchmark, if necessary.
- Consult with the State before making significant changes to disinfection practices.

6) Long Term 2 Enhanced Surface Water Treatment Rule

Under the LT2ESWTR systems are required to do the following-

- Monitor source water for *E. coli* and *Cryptosporidium* and calculate a treatment bin classification based on monitoring results (some systems completed monitoring and bin classification during the previous ICR clearance period). Filtered systems serving less than 10,000 people may monitor for *E. coli* as a trigger instead. These systems will only sample for *Cryptosporidium* if their *E. coli* results exceed certain levels.
- Install additional treatment if monitoring results trigger a system into a bin classification requiring additional treatment for *Cryptosporidium* and report on compliance with the requirements for the treatment installed.
- Prepare disinfection benchmarking reports for *Giardia* and viruses if disinfection is changed.
- Submit a plan for covering or disinfecting any UCFWRs (this activity was completed during the previous ICR clearance period).
- Keep all monitoring data on file for 3 years.

7) Ground Water Rule

Under the GWR, systems are required to do the following-

- Undergo a sanitary survey, compiling records and accompanying the State or third party conducting the survey.
- Conduct triggered source water monitoring if the system tests positive for total coliform in the distribution system under TCR, for systems not providing 4-log inactivation of viruses. Under triggered monitoring requirements (40 CFR 141.402) a system must collect at least one source water sample and have that sample tested for a fecal indicator (*E. coli*, enterococci, or coliphage) specified by the State. If a system detects the State-specified fecal indicator at its source, then the system must take five additional samples within 24 hours unless the State determines that corrective action must be taken immediately.

- Conduct source water assessment monitoring for fecal indicators if required to do so by the state.
- Comply with treatment technique requirements and any associated reporting requirements if the State identifies a significant deficiency during a sanitary survey or the system has confirmed fecal contamination of their source water.
- Monitor disinfectant residual for compliance, for systems providing disinfection to achieve 4-log inactivation of viruses.
- Maintain records of GWR information listed in section 4(b)(i).

Primacy Agencies

In general, primacy agencies conduct the following activities with regard to reporting and recordkeeping—

- Maintain an inventory of PWSs.
- Compile results of analyses of drinking water samples.
- Analyze and review PWS data.
- Make determinations concerning PWSs.
- Track PWS compliance.
- List systems not in compliance with drinking water standards.
- Recordkeeping such as maintaining State approval of plans and specifications, enforcement activities, and variances and exemptions (V&E) for each PWS.

By conducting these activities, primacy agencies are able to evaluate PWS performance and to identify PWS needs and problem areas. They also identify enforcement targets and systems requiring remedial action. In addition, States serve as respondents when reporting compliance data to the Federal government. Some of these activities are covered in the PWSS Program ICR as general primacy activities. Therefore, only microbial contaminant-specific recordkeeping activities have been included in this Microbial Rules ICR.

1) Surface Water Treatment Rule

The SWTR states that primacy agencies must conduct the following—

- Collect and maintain information submitted by PWSs.
- Record which systems using surface water are required to provide filtration and which are not. These records must be kept indefinitely.
- Submit a special report to the EPA Administrator listing PWSs that are not required to filter.
- Retain the results of microbiological contaminant analyses of source water samples in the same manner as other microbiological contaminant analytical results.

2) Total Coliform Rule

Primacy agencies are required by the TCR to conduct the following activities-

- Analyze monitoring results and identify systems not in compliance with either MCLs (or performance criteria) or monitoring and reporting frequencies.
- Provide in writing permission for reduced monitoring or monitoring waivers; maintain for five years.
- Submit to the EPA Administrator a special report that lists PWSs that have received permission to reduce monitoring requirements.
- Collect and maintain data regarding the results of sanitary surveys conducted under the TCR.

3) Interim Enhanced Surface Water Treatment Rule

Primacy agencies are required to maintain records of State verification activities and each determination made and to report to EPA in accordance with State reporting requirements. In addition, primacy agencies ensure that PWSs are implementing IESWTR properly. To meet these responsibilities, States are involved in the following additional activities—

- Review individual filter turbidity monitoring data.
- Conducting CPEs for PWSs.
- Conducting sanitary surveys.
- Consulting with PWSs on changes in disinfection practice.
- Conducting follow-up inspections.

4) Filter Backwash Recycling Rule

For the FBRR, primacy agencies incur a recordkeeping requirement for maintaining data submitted by conventional and direct filtration PWSs that recycle. Primacy agencies must also maintain written approval for all PWSs with alternate recycle locations.

5) Long Term 1 Enhanced Surface Water Treatment Rule

Primacy agencies have the responsibility for ensuring the implementation of the LT1ESWTR (40 CFR, Section 142.16). EPA anticipates that States will be involved in the following activities—

- Consulting with PWSs on changes in disinfection practice.
- Conducting CPEs for PWSs (if requested).
- Conducting follow-up inspections.
- Compliance tracking for turbidity

6) Long Term 2 Enhanced Surface Water Treatment Rule

Primacy agencies have the responsibility for ensuring the implementation of the LT2ESWTR. This will include the following activities—

- Obtaining primacy (this activity was completed in the previous ICR clearance period)
- Maintaining and updating the data management system
- Reviewing small system sampling schedules and sampling locations
- Maintaining E. coli and Cryptosporidium monitoring data from small systems
- Responding to systems' inquiries
- Reviewing and approving schedules for covering or treating UCFWRs
- Reviewing and approving bin classifications
- Reviewing disinfection profiles and benchmarks
- Reviewing and, in some cases, approving processes to meet bin treatment requirements
- Reporting the information required in section 4(b)(i)
- Keeping records of the information in section 4(b)(i)

7) Ground Water Rule

States will need to perform the following tasks:

- Obtain primacy (this activity is assumed to have been completed during the previous ICR clearance period)
- Perform sanitary surveys, and reporting and recordkeeping requirements associated with performing sanitary surveys
- Tracking and filing monitoring results and reviewing any additional reporting

5 INFORMATION COLLECTED -- AGENCY ACTIVITIES, COLLECTION METHODOLOGY, AND INFORMATION MANAGEMENT

5(a) Agency Activities

As part of its supervisory responsibility, EPA maintains SDWIS and evaluates SDWIS data to determine system compliance. Agency personnel also reformat, distribute, and store these data for a number of uses, including responding to Congressional and public inquiries. EPA also oversees its Regional and State programs, provides technical assistance, and develops policies designed to ensure consistent program implementation. EPA officials serve as respondents when testifying to Congress on the PWSS Program or in the courts for enforcement actions.

Burden and costs for the activities are addressed in the PWSS Program ICR (OMB No. 2040-0090). Section 5(a) of the PWSS Program ICR contains additional detail regarding the activities supported by the collection of SDWIS data described above.

In addition to these activities, the Agency will also assume the activities performed by the State in those States and territories that do not have primacy. Specifically, the Agency will be involved in the following activities related to microbial contaminant regulations—

- Mobilization, planning, and implementation.
- Training PWS and consultant staff.
- Analyzing and reviewing PWS data.
- Making determinations concerning PWSs.
- Conducting CPEs and sanitary surveys.
- Meeting with PWSs about changes in recycling practices.
- Compliance tracking.
- Recordkeeping.

Burden and costs for these activities are accounted for under the primacy agency burden (see Section 6). EPA Regional offices also conduct general primacy activities in States and territories that do not have primacy. This burden is addressed in the PWSS ICR and is included in the general primacy burden for primacy agencies.

	Exhibit 4
EPA	Requirements

Requirement	Regulatory Citation	Frequency
General Requirements (apply to all regulations		
For States and other entities for which the	40 CFR 142.14 and 142.15	As necessary
Agency maintains primacy, the Agency must		
maintain the records and perform the reporting		
activities required of States. (This burden is		
addressed under primacy agency burden.)		
Review State request for approval of a program	40 CFR 142.12(d)(3)	One time, as
revision and notify State of determination		necessary
regarding request.		
SWTR	•	
Publish a notice of any proposed	40 CFR 142.80(b)	As necessary
comprehensive review of State decisions to		
determine if PWSs must provide filtration.		
Notify each State affected by the results of a	40 CFR 142.80(c)	As reviews are
comprehensive review.		completed
Make the results of comprehensive reviews	40 CFR 142.80(c)	As reviews are
available to the public.		completed
Notify the State if periodic reviews or other	40 CFR 142.81(a)	As necessary
available information indicate that the State has		,
abused its discretion in applying the criteria for		
avoiding filtration or that the State has failed to		
prescribe compliance schedules for PWSs that		
must provide filtration.		
Notify the State that a public hearing will be held	40 CFR 142.81(b)	As necessary
on the notice provisions.		,
Publish a notice of the public hearing in the	40 CFR 142.81(c)	As necessary
Federal Register and in a newspaper of general		
circulation in the involved State.		
TCR		
Subject to general requirements as listed above.		
IESWTR		
Subject to general requirements as listed above		
FBRR		
Subject to general requirements as listed above.		
LT1ESWTR		
Subject to general requirements as listed above.		
Publish a notice of any proposed	40 CFR 142.80(b)	As necessary
comprehensive review of State decisions to	(-)	· · · · · · · · · · · · · · · · · · ·
determine if PWSs must provide filtration.		
Notify each State affected by the results of a	40 CFR 142.80(c)	As reviews are
comprehensive review.	(- /	completed
Make the results of comprehensive reviews	40 CFR 142.80(c)	As reviews are
available to the public.		completed
Notify the State if periodic reviews or other	40 CFR 142.81(a)	As necessary
available information indicate that the State has	- (-)	,
abused its discretion in applying the criteria for		
avoiding filtration or that the State has failed to		
prescribe compliance schedules for PWSs that		
must provide filtration.		
Notify the State that a public hearing will be held	40 CFR 142.81(b)	As necessary

Requirement	Regulatory Citation	Frequency
Publish a notice of the public hearing in the	40 CFR 142.81(c)	As necessary
Federal Register and in a newspaper of general		
circulation in the involved State.		
LT2ESWTR		
Subject to general requirements as listed above.		
Approving laboratories	40 CFR 141.705	As necessary
Collecting and managing sampling location	40 CFR 141.702(a),	As necessary
descriptions, sampling schedules, and	141.703(f), 141.706(b)	
monitoring data submitted by medium and large		
systems.		
GWR		
Subject to general requirements as listed above.		

5(b) Collection Methodology and Management

Primacy agencies must report data to EPA on a quarterly basis. These data include any new data and revisions or corrections to existing data. This information is maintained in SDWIS, which contains the following—

- Inventory data for each PWS
- Violations
- Enforcement actions and some follow-up activity
- Variances and exemptions

Primacy agencies transmit SDWIS data to EPA both manually and electronically. In the District of Columbia, Wyoming, and Indian Lands (except for the Navajo Nation, which has primacy), results of system samples are sent directly to the EPA Region. Virtually all SDWIS data are reported electronically by the primacy agency.

SDWIS data support a number of rule implementation and program management activities, which include the following—

- Tracking the status of PWSs that are in significant non-compliance (SNC). This information is provided to the Office of Enforcement and Compliance Assurance, as part of the reporting for enforcement and compliance assurance priorities. These data provide senior management with information on trends in drinking water enforcement.
- Supporting data verification. EPA Regions undertake an extensive review of SDWIS data—the primary purposes of which is to assess the quality of data and recommend any necessary changes in collection or reporting methodologies.
- Promoting consistent national program implementation. The process of data verification provides insights into the primacy agency's interpretation of regulations. Such information supports fair and consistent SDWA implementation and enforcement.

All costs for rule-related data management activities are addressed in the PWSS Program ICR (OMB No. 2040-0090). Section 5(b) of the PWSS Program ICR contains additional detail regarding the activities supported by the collection of SDWIS data described above.

5(c) Small Entity Flexibility

In developing this ICR, EPA considered the requirement of the Small Business Regulatory Enforcement Fairness Act (SBREFA) to minimize the burden of information collections on small entities. Small entities include "small businesses," "small organizations" and "small government jurisdictions." These terms are defined below.⁸

- A small business is any business that is independently owned and operated and not dominant in its field as defined by the Small Business Administration regulations under Section 3 of the Small Business Act.
- A small organization is any non-profit enterprise that is independently owned and operated and not dominant in its field.
- A small governmental jurisdiction is the government of a city, county, town, township, village, school district or special district that has a population of fewer than 50,000. This definition may also include Indian Tribes.

The major requirement under SBREFA is a regulatory flexibility analysis (RFA) of all rules that have a "significant economic impact on a substantial number of small entities." Since this ICR is not currently associated with new rules, it is not currently subject to the SBREFA.

Throughout the 1992–1993 negotiated rulemaking process for the Stage 1 DBPR and the IESWTR and the July 1994 proposals for these rules, a small PWS was defined as a system serving fewer than 10,000 people. This definition reflects the original 1979 standard for TTHMs, which applied only to systems serving at least 10,000 people. The definition thus recognizes that the baseline conditions from which systems serving fewer than 10,000 people would approach disinfection byproduct control and simultaneous control of microbial pathogens would be different than those for systems serving 10,000 or more people. Subsequent to the 1994 proposals, EPA defined a "small business" (for purposes of RFAs in drinking water regulations) as a PWS serving 10,000 or fewer people. This definition is consistent with the approach used herein and in the 1996 Congressional amendments to SDWA.

EPA has made significant efforts to minimize the burden for all respondents, particularly for small entities. In setting both MCLs and monitoring requirements, EPA has been able to minimize burden for small entities as detailed below.

⁸ These definitions were taken from §601 of the Regulatory Flexibility Act. *OMB DRAFT—Do not Cite, Quote, or Distribute*

1) Surface Water Treatment Rule

Only a small percentage of small systems use surface water supplies; therefore, this rule does not have a significant economic impact on a substantial number of small entities. Since system size is the key determinant of the monitoring frequency requirements of the SWTR, systems serving fewer than 3,300 people will have the least stringent monitoring requirements.

EPA will allow a reduction in the frequency of turbidity monitoring from six samples per day to one sample per day for systems using slow sand filtration treatment or other eligible technologies. Systems serving fewer than 500 people may also reduce sampling to once per day regardless of filtration type.

2) Total Coliform Rule

The number of required coliform samples varies directly with system size. Specifically, for (CWSs), the number of samples range from a minimum of one sample per month for systems serving fewer than 1,000 people to 480 samples per month for those serving 3,960,001 or more people. This requirement is codified at 40 CFR §141.21(a). Generally, quarterly monitoring must be conducted at noncommunity water systems (NCWSs) using ground water only serving 1,000 or fewer people. As provided for in §141.21(a)(3)(i), however, the primacy agency may reduce the quarterly monitoring frequency as a result of a sanitary survey.

3) Interim Enhanced Surface Water Treatment Rule

Except for sanitary survey requirements, which are carried out by the primacy agency, the IESWTR only applies to systems serving at least 10,000 people. Accordingly, the rule does not have a significant impact on small entities.

4) Filter Backwash Recycling Rule

The FBRR applies to both large and small systems. Therefore, the rule will have an effect on small entities. Accordingly, as part of the economic analysis for the rule, EPA certified that this rule would not have a significant impact on a substantial number of small systems. As a result, an RFA was not required.

5) Long Term 1 Enhanced Surface Water Treatment Rule

The LT1ESWTR applies only to subpart H systems serving less than 10,000 people. The rule will, therefore, have an effect on small entities. After considering the economic impacts of the rule on small entities, EPA certified that this action would not have a significant economic impact on a substantial number of small entities. The Agency determined that less than one percent of small entities will experience an impact of less than one percent of their annual revenues or expenditures. No affected small governmental jurisdictions are expected to incur annual costs exceeding three percent of their annual revenue. Accordingly, an RFA was not required.

6) Long Term 2 Enhanced Surface Water Treatment Rule

The LT2ESWTR allows small systems to monitor for *E. coli* instead of *Cryptosporidium*. The analysis for *E. coli* is much less expensive than *Cryptosporidium*. Small systems are only required to monitor for *Cryptosporidium* if *E. coli* concentrations are above a trigger value. In addition, systems with at least 2 years worth of historical *Cryptosporidium* data may use that data instead of performing new monitoring.

7) Ground Water Rule

The GWR was developed in consultation with the Small Business Advocacy Review Panel. Several of the panel's recommendations were incorporated into the rule. These recommendations include:

- Risk targeted approach only those systems most at risk are required to monitor or provide corrections.
- Using coliform monitoring instead of more expensive viral monitoring the rule requires preliminary monitoring for coliform. Only if coliform monitoring is positive is monitoring of other organisms required.

5(d) Collection Schedule

The collection schedules for each rule are summarized below. Additional information may be obtained by consulting the individual rules for specific collection schedules.

Rule	Collection Commencement Year
SWTR	1991/1993 (depending on filtration status)
TCR	1991 – coliform monitoring
	1994 – sanitary surveys for CWSs, 1999 for NCWSs
IESWTR	2002 – turbidity monitoring
	2002/2004 - sanitary surveys (depending on size and source type)
LT1ESWTR	2005 – turbidity monitoring
FBRR	2004 – recordkeeping
LT2ESWTR	2006 – <i>Cryptosporidium</i> and <i>E. coli</i> monitoring first round (depends on system size; all sampling completed by 2011) 2010 – disinfection profiling (depends on system size)
	2012 – reporting for compliance with new technologies
	2015 – second round of <i>Cryptosporidium</i> and <i>E. coli</i> monitoring
GWR	2009 – sanitary survey, triggered monitoring, corrective action plans, compliance monitoring

Exhibit 5 Collection Schedule

6 ESTIMATING BURDEN AND COST OF COLLECTION

This section estimates the burden and cost to PWSs and primacy agencies for complying with drinking water information requirements associated with microbial contaminant rulemakings. These include the following-

- Surface Water Treatment Rule⁹ 1)
- 2) **Total Coliform Rule**
- 3) Interim Enhanced Surface Water Treatment Rule
- 4) Filter Backwash Recycling Rule
- Long Term 1 Enhanced Surface Water Treatment Rule 5)
- 6) Long Term 2 Enhanced Surface Water Treatment Rule
- 7) Ground Water Rule

This ICR updates the annual burdens and costs associated with these rulemakings for the three-year ICR period of late 2008 through 2011. This section also discusses the assumptions used to estimate cost and burden and describes the change in annual burden, as compared with the current OMB annual burden inventory.

EPA is committed to accurately characterizing the burden and costs of rules it promulgates. Consequently, EPA has refined some of the assumptions for calculating the burden and costs associated with implementing the drinking water regulations contained in this ICR. For this update, many assumptions were revised based on program changes and well-documented changes in some data. To provide a comparable basis on which to calculate the requirements addressed by the Microbial Rules ICR, and to address inconsistencies, EPA applied uniform assumptions to all rules. The categories of assumptions are listed below.

- Labor rates-for PWSs, the \$2006 labor rate of \$17.87 was obtained from the • Bureau of Labor Statistics (BLS) and inflated to \$2007 using the Employee Cost Index (ECI). An overhead rate of 60 percent was applied, resulting in an hourly rate of \$30.72 (see Section 6(b)). For States, the \$2006 labor rate of \$24.92 was obtained from the Bureau of Labor Statistics (BLS) and inflated to \$2007 using the Employee Cost Index (ECI). An overhead rate of 60 percent was applied, resulting in an hourly rate of \$42.80 (see Section 6(b)).
- PWS inventory figures from the most recent frozen SDWIS database pull (October 2007).
- Number of entry points-data from the 2000 Community Water System Survey • (CWSS).
- Number of plants-data from the 2000 CWSS.

In addition, EPA revised some of the estimates of burden for particular activities (e.g., sampling, developing reports) to reflect consultations with representatives of PWSs and States (see section 3(c).

⁹ Includes all rule components except disinfectant residual monitoring and associated activities, which are included in the DDBP/Chem/Rads Rules ICR (see footnotes 3 and 6 for more information). OMB DRAFT—Do not Cite, Quote, or Distribute 44

6(a) Respondent Burden

6(a)(i) Burden to Public Water Systems

The annual PWS burden for late 2008 through late 2011 is estimated to be approximately 8.52 million hours. Exhibit 6 (after Section 6(b)) shows the breakdown of the annual burden hours on a rule-specific basis. Wherever possible, activity-level burden assumptions were carried forward from previous ICRs. However, if updated data were available (e.g., system inventories), the most recent data were used in burden calculations. Appendices B through G show the assumptions and detailed burden calculations for each rule. The following further describes the bases for the burden estimates for each rule.

1) Surface Water Treatment Rule

Activities associated with the SWTR account for 0.78 million annual burden hours per year. The assumptions used to calculate the SWTR burden are based largely on assumptions carried forward from the 2004 Microbial Rules ICR. This ICR includes burden estimates for all components of the SWTR except disinfectant residual monitoring and associated activities, which are included in the Disinfectants and Disinfection Byproducts, Chemical, and Radionuclides (DDBP/Chem/Rads) Rule ICR. For unfiltered systems, burden estimates include raw water sampling for coliform, on-site inspections, watershed management, and raw water turbidity monitoring. The burden for filtered systems includes only finished water turbidity monitoring. Section 6(f) describes the reasons for changes between the burden reported in the 2004 Microbial Rules ICR. Detailed burden and cost calculations for the SWTR are provided in Appendix B.

2) Total Coliform Rule

Activities associated with the TCR account for a burden of 3.46 million hours per year. The burden estimates include routine total coliform monitoring and repeat sampling for *E. coli* or fecal coliform. The assumptions used to calculate the TCR burden are based largely on assumptions carried forward from the 2004 Microbial Rules ICR. Section 6(f) describes the reasons for changes between the burden reported in the 2004 Microbial Rules ICR and this ICR. Appendix C summarizes the assumptions used to calculate the TCR burden and provides the detailed burden and cost calculations.

3) Interim Enhanced Surface Water Treatment Rule

Activities associated with IESWTR account for a burden of 3.88 million hours per year. Included in this burden are combined and individual filter turbidity monitoring, turbidity exceptions reporting, and conducting individual filter assessments (IFAs). The assumptions used to calculate the IESWTR burden are based largely on the assumptions carried forward from the 2004 Microbial Rules ICR. Reasons for changes in burden between the 2004 Microbial Rules ICR and this ICR are summarized in Section 6(f). Detailed information about assumptions, burden, and calculations are provided in Appendix D.

4) Filter Backwash Recycling Rule

No burden is estimated for PWSs for this rule. Currently, the rule requires PWSs to maintain records on recycle flow. The burden associated with this recordkeeping is assumed to be negligible.

5) Long Term 1 Enhanced Surface Water Treatment Rule

Activities associated with the LT1ESWTR account for a burden of 0.16 million hours per year. The burden estimates for PWSs include turbidity exceptions reporting and turbidity monitoring. The assumptions used to calculate the LT1ESWTR burden are based largely on the assumptions carried forward from the 2004 Microbial Rules ICR. Reasons for changes in burden between the 2004 Microbial Rules ICR and this ICR are summarized in Section 6(f). Detailed information about assumptions, burden, and calculations are provided in Appendix E.

6) Long Term 2 Enhanced Surface Water Treatment Rule

Activities associated with the LT2ESWTR account for a burden of 0.066 million hours per year. The burden estimates include monitoring for *E. coli* and/or *Cryptosporidium* for medium and small systems (large systems have completed the initial round of monitoring). In addition, the burden estimates for PWSs include calculation of a bin classification based on the monitoring results. Not all systems will calculate bin classification during the period covered by the revised ICR. PWS burden estimates also account for some of the burden associated with developing disinfection profiles and benchmarks. Reporting and recordkeeping burden from covering or providing further treatment to any uncovered finished water reservoirs is assumed to have been completed during the previous ICR clearance period.

The stand-alone LT2ESWTR ICR expires October 31, 2008. Burden and costs associated with the LT2ESWTR and incurred after October 2008 are incorporated into the Microbial Rules ICR. Appendix F summarizes the assumptions used to calculate the LT2ESWTR burden and provides the detailed burden and cost calculations.

7) Ground Water Rule

Activities associated with the GWR account for a burden of 0.18 million hours per year. For ground water systems providing 4-log treatment of viruses, the burden estimates include compliance monitoring to demonstrate treatment effectiveness and associated reporting, including reports of disinfection failure. In addition, burden estimates for developing corrective action plans are included. For ground water systems that do not provide 4-log treatment of viruses, PWS burden estimates also account for burden associated with conducting triggered source water monitoring if the system tests positive for total coliform in the distribution system under the TCR, including the burden for initially notifying the State that the system provides disinfection. PWS burden also includes the burden associated with sanitary surveys.

The stand-alone GWR ICR expires October 31, 2009. Burden and costs associated with the GWR and incurred after October 2009 are incorporated into the Microbial Rules ICR. Appendix G summarizes the assumptions used to calculate the GWR burden and provides the detailed burden and cost calculations.

6(a)(ii) Burden to Primacy Agencies

The annual burden for primacy agencies for late 2008 through late 2011 is estimated to be approximately 2.15 million hours. Exhibit 7 (at the end of Section 6(b)) shows the annual burden hours on a rule-specific basis. Many other primacy agency activities, such as compliance assurance and data management, cannot be divided among specific rules and are included in the PWSS Program ICR as general primacy activities. The bases for burden estimates included in this ICR are detailed below.

1) Surface Water Treatment Rule

The annual State burden for the SWTR is expected to be 0.18 million hours. All of this burden is associated with review of finished water turbidity monitoring results. Estimates for primacy agency burden for the SWTR are based on assumptions carried forward from the 2004 Microbial Rules ICR. Detailed calculations for burden and cost are shown in Appendix B.

2) Total Coliform Rule

For primacy agencies, the annual burden associated with the TCR is estimated to be approximately 0.59 million hours. This reflects burden to monitor TCR-related activities such as reviewing routine coliform reports, *E. coli* and fecal coliform reports, and additional routine sampling reports. Additionally, sanitary survey burden for ground water systems for year 1 of this ICR period is included here. Sanitary survey burden for years 2 and 3 is included under the GWR (see App. G). Sanitary survey burden for surface water systems is included under IESWTR. Estimates for primacy agency burden for the TCR are based on assumptions carried forward from the 2004 Microbial Rules ICR. Appendix C shows detailed burden and cost calculations.

3) Interim Enhanced Surface Water Treatment Rule

Primacy agencies are expected to expend 0.90 million annual burden hours implementing requirements of the IESWTR. The assumptions used to calculate the IESWTR burden are based largely on assumptions carried forward from the 2004 Microbial Rules ICR. The burden includes estimates for review of turbidity monitoring results and exceptions reports. Additionally, States conduct CPEs and sanitary surveys for all surface water systems. Detailed cost and burden calculations are included in Appendix D.

4) Filter Backwash Recycling Rule

No burden is estimated for States for this rule. The burden associated with the recordkeeping requirements in this rule is assumed to be negligible.

5) Long Term 1 Enhanced Surface Water Treatment Rule

The annual State burden for the LT1ESWTR is expected to be 0.14 million hours. The assumptions used to calculate the LT1ESWTR burden are based largely on assumptions carried forward from 2004 Microbial Rules ICR. The burden includes estimates for compliance tracking and recordkeeping of turbidity monitoring for small systems, and review of turbidity monitoring and turbidity exceptions reports. Additionally, States conduct turbidity exceptions reporting, which includes CPEs and annual exception reports for systems serving 10,000 people or fewer. Detailed calculations for burden and cost are shown in Appendix E.

6) Long Term 2 Enhanced Surface Water Treatment Rule

The annual State burden for the LT2ESWTR is expected to be 0.044 million hours. The assumptions used to calculate the LT2ESWTR burden are based largely on assumptions carried forward from the LT2ESWTR ICR. State burden includes reviewing monitoring results and assisting with and reviewing bin classifications. States will also review disinfection profiles and benchmarks for systems that significantly change their disinfection practices. States are assumed to have already completed startup and reviewing documentation associated with covering or treating UCFWRs.

The stand-alone LT2ESWTR ICR expires October 31, 2008. Burden and costs associated with the LT2ESWTR and incurred after October 2008 are incorporated into the Microbial Rules ICR. Appendix F summarizes the assumptions used to calculate the LT2ESWTR burden and provides the detailed burden and cost calculations.

7) Ground Water Rule

The annual State burden for the GWR is expected to be 0.29 million hours. The assumptions used to calculate the GWR burden are based largely on assumptions carried forward from the GWR ICR. The burden includes that associated with performing sanitary surveys, as well as burden to review initial compliance monitoring notification and compliance monitoring reports submitted by PWSs. In addition, States will ensure PWSs are complying with treatment technique requirements and any associated reporting requirements. For ground water systems that do not provide 4-log treatment of viruses, State burden estimates also account for review of triggered source water monitoring results. Lastly, the burden includes administrative activities such as recordkeeping, staff training, and technical assistance to PWSs.

The stand-alone GWR ICR expires October 31, 2009. Burden and costs associated with the GWR and incurred after October 2009 are incorporated into the Microbial Rules ICR. Appendix G summarizes the assumptions used to calculate the GWR burden and provides the detailed burden and cost calculations.

6(b) Respondent Costs

6(b)(i) Cost to Public Water Systems

Exhibit 6 shows the annual costs for PWSs over the three-year ICR period. Annual costs are estimated at approximately \$462.1 million, which consists of \$265.0 million in labor costs, \$110.6 million in Operation and Maintenance (O&M) costs, and \$86.6 million in capital costs.

PWS labor costs are based on the number of burden hours times the average hourly wage rate, including overhead. The average hourly wage rate is the rate quoted by the Bureau of Labor Statistics for Standard Occupational Classification (SOC) Code 51-8031, "Local Government—Water and Liquid Waste Treatment Plant and System Operators." The quoted rate was \$17.87 in 2006 dollars (see http://stats.bls.gov). For consistency, this rate has been inflated to December 2007 dollars using the Employment Cost Index. In addition, 60 percent overhead was assumed, bringing the loaded, inflated rate to \$30.72 in December 2007 dollars.

In addition to the labor costs, there are O&M costs associated with the SWTR, TCR, IESWTR, LT1ESWTR, LT2ESWTR, and GWR. For the SWTR, these O&M costs reflect nonlabor costs associated with coliform analyses (unfiltered systems) and turbidity analyses (unfiltered and filtered systems). Coliform analysis O&M costs are based on analysis costs as listed in the proposed Aircraft Drinking Water Rule (proposed in fall 2007). Turbidity analysis O&M costs are based on vendor quotes regarding calibration materials needed to perform turbidity analyses. TCR O&M costs reflect non-labor costs associated with coliform and E. coli analysis. IESWTR O&M costs reflect non-labor costs associated with turbidity analysis for individual filters. For the IESWTR, turbidity analysis costs are based on O&M cost equations for operating an integrated Supervisory Control and Data Acquisition (SCADA) system. These cost equations are carried forward from the IESWTR Regulatory Impact Analysis (RIA). LT1ESWTR O&M costs also reflect non-labor costs associated with turbidity analysis for individual filters. LT2ESWTR O&M costs reflect non-labor costs associated with Cryptosporidium and E. coli laboratory analysis. GWR O&M costs reflect non-labor costs associated with compliance (disinfection) monitoring (maintenance costs, monthly reagents, charts, and recorder pens).

The SWTR, IESWTR, and LT1ESWTR also include capital costs for turbidity monitoring equipment. For these rules, capital costs are estimated based on vendor estimates and costing equations for in-line and bench-top turbidimeters, or SCADA systems needed to comply with turbidity monitoring requirements. Capital costs are annualized based on the replacement period for turbidity analysis equipment (estimated to be 7 years). The GWR includes capital costs for chlorine monitoring equipment (chlorine analyzer, power cord, and chart recorder).

Further detail on the O&M and capital costs for the SWTR, TCR, IESWTR, LT1ESWTR, LT2ESWTR, and GWR can be found in Appendices B, C, D, E, F, and G respectively.

6(b)(ii) Cost to Primacy Agencies

Exhibit 7 shows that the annual costs to primacy agencies are estimated at approximately \$91.9 million in labor costs. The labor costs are based on the SOC Code 19-2041, "State Government - Environmental Scientists and Specialists, Including Health," an average full time equivalent (FTE) cost of \$89,024, including overhead, which equates to approximately \$42.80 per hour.¹⁰

There are no O&M or capital costs for primacy agencies under this ICR.

¹⁰ According to the ICR Handbook, an employee works an average of 2,080 hours in one year. *OMB DRAFT—Do not Cite, Quote, or Distribute*

Activity	Annual Burden Hours	Annual Labor Cost (\$K)	Annual O&M Cost (\$K)	Annual Capital Cost (\$K)	Total Annual Cost (\$K)	Annual Responses
SWTR	776,724	\$23,859	\$1,308	\$549	\$25,716	5,343,860
TCR	3,464,341	\$106,415	\$77,457	N/A	\$183,872	973,454
IESWTR	3,875,847	\$119,055	\$13,766	\$83,298	\$216,120	3,417,506
LT1ESWTR	162,290	\$4,985	\$3,270	\$2,629	\$10,885	4,018
LT2ESWTR	66,406	\$2,078	\$14,610	N/A	\$16,688	83,756
GWR	176,399	\$8,574	\$149	\$125	\$8,847	274,772
TOTAL	8,522,006	\$264,967	\$110,561	\$86,602	\$462,129	10,097,366

Exhibit 6 Annual PWS Burden and Cost October 1, 2008 – September 30, 2011

Note: Detail may not add exactly to totals due to rounding.

Exhibit 7 Annual Primacy Agency Burden and Cost October 1, 2008 – September 30, 2011

			Cost	t		
Activity	Annual Burden Hours	Annual Labor Cost (\$K)	Annual O&M Cost (\$K)	Annual Capital Cost (\$K)	Total Annual Cost (\$K)	Annual Responses
SWTR	183,216	\$7,841	N/A	N/A	\$7,841	22,700
TCR	591,019	\$25,295	N/A	N/A	\$25,295	1,877,510
IESWTR	897,456	\$38,410	N/A	N/A	\$38,410	66,211
LT1ESWTR	141,732	\$6,066	N/A	N/A	\$6,066	4,018
LT2ESWTR	43,844	\$1,877	N/A	N/A	\$1,877	256
GWR	290,642	\$12,427	N/A	N/A	\$12,427	38,439
TOTAL	2,147,910	\$91,916	N/A	N/A	\$91,916	2,009,135

Note: Detail may not add exactly to totals due to rounding.

6(c) Agency Burden and Costs

Burden and costs to the Federal government are incurred by EPA's drinking water program at Headquarters and EPA Regions to assist primacy agencies in implementing drinking water regulations. EPA burden and costs for on-going general activities for all EPA drinking water regulations (not just those listed in this ICR) are accounted for under the PWSS Program ICR. Burden and costs included in the PWSS Program ICR cover all cross-cutting (non-rule specific) regulatory activities associated with compliance tracking, regulatory enforcement, and rule development activities. There are no rule-specific activities expected for EPA under any of the rules covered by this ICR.

6(d) Estimating Respondent Universe and Total Burden and Costs

Respondents for this ICR include PWSs and primacy agencies. This ICR estimates that the number of PWS respondents is 155,693 existing PWSs. All PWSs are not necessarily subject to each of the information collection requirements contained in this ICR. Each rule associated

with this ICR identifies the types of PWSs that are subject to that particular requirement. The numbers, by type of PWSs affected for each rule, are identified in the appendices.

In addition to the PWS respondents, this ICR assumes 57 primacy agencies (50 States plus the District of Columbia, U.S. Territories, and Indian Nations)¹¹. Therefore, the total number of respondents is 155,750. The total costs and burden for these respondents are summarized in Exhibits 6 and 7.

6(e) Bottom Line Burden Hours and Costs

The bottom line burden hours and costs for this ICR are presented in Exhibit 8. The total annual respondent burden associated with this ICR, which includes burden for PWSs and primacy agencies, is estimated to be approximately 10.7 million hours. The corresponding total annual respondent costs are estimated to be \$554.0 million. The annual capital and O&M costs are approximately \$197.2 million.

¹¹ For several of these entities, primacy activities are actually implemented by EPA Regional offices. However, as a simplifying assumption, they are included with the States for respondent calculations under this ICR. *OMB DRAFT—Do not Cite, Quote, or Distribute* 52

Annual Number of Respondents	155,750	(=)	
	155,693	(+)	Existing PWSs
	57		Primacy agencies
Total Annual Responses	12,106,501	(=)	
	10,097,366	(+)	PWS responses (see Exhibit 6)
	2,009,135		Primacy agency responses (see Exhibit 7)
Number of Responses per Respondent	77.7	(=)	
	12,106,501	(/)	Total annual responses from above
	155,750		Total number of respondents from above
Total Annual Respondent Hours	10,669,916	(=)	
	8,522,006	(+)	PWS hours (see Exhibit 6)
	2,147,910		Primacy agency hours (see Exhibit 7)
Hours per Response	0.88	(=)	
	10,669,916	(/)	Total annual respondent hours from above
	12,106,501		Total annual responses from above
Annual O&M and Capital Cost (\$K) ¹	\$197,162	(=)	
	\$110,561	(+)	Total O&M costs (see Exhibit 6)
	\$86,602		Total capital costs (see Exhibit 6)
Total Annual Respondent Cost (\$K)	\$554,045	(=)	
	\$462,129	(+)	For PWSs (see Exhibit 6)
	\$91,916		For primacy agencies (see Exhibit 7)
Total Annual Hours (resp. plus	10,669,916	(=)	
Agency)	10,669,916	(+)	Total annual respondent hours from above
	0		Total EPA hours
Total Annual Cost (\$K) (resp. plus	\$554,045	(=)	
Agency)	\$554,045	(+)	Total annual respondent cost from above
	\$0		Total EPA cost

Exhibit 8 Bottom Line Annual Burden and Cost October 1, 2008 – September 30, 2011

Note: Detail may not add exactly to totals due to rounding.

¹No Primacy Agency capital or O&M costs are incurred, see Exhibit 7.

6(f) Reasons for Change in Burden

This section presents the change in burden and explains the reasons for the change in burden. The discussion is divided into two parts—

- Section 6(f)(i) summarizes the burden adjustments made (by addition of new Rules) since the 2004 Microbial Rules ICR (see Exhibit 10).
- Section 6(f)(ii) summarizes burden adjustments to each Rule since the 2004 Microbial Rules ICR (see Exhibits 11 through 13).

Exhibit 9 summarizes how each of these changes affects the overall burden inventory for the Microbial Rules ICR.

Exhibit 9 Summary of Changes in Annual Burden (Includes PWS and Primacy Agency Burden)

Type of Change	Burden (hours)	Running Total	Comment
Burden Estimated in the 2004			This burden serves as the baseline for the 2008 Microbial Rules ICR.
Microbial Rules ICR	8,624,865	8,624,865	
Restructuring Adjustments–see Section 6(f)(i)	526,559	9,151,424	Burden for LT2 and GWR is now included in this ICR.
Other Adjustments to Burden–see Section 6(f)(ii)	1,518,492	10,669,916	Burden for which EPA seeks approval in this ICR.

Note: Detail may not add exactly to totals due to rounding.

6(f)(i) Restructuring Adjustments

Several restructuring adjustments have been made to consolidate the burden for each of the regulations being incorporated into the Microbial Rules ICR. These adjustments are discussed below and summarized in Exhibit 10.

- Burden associated with the LT2ESWTR. The final LT2ESWTR was promulgated January 5, 2006. The stand-alone LT2ESWTR ICR expires on October 31, 2008. Burden and costs associated with the LT2ESWTR and incurred after October 2008 are incorporated into the Microbial Rules ICR.
- Burden associated with the GWR. The final GWR was promulgated November 8, 2006. The stand-alone GWR ICR expires on October 31, 2009. Burden and costs associated with the GWR and incurred after October 2009 are incorporated into the Microbial Rules ICR.

Exhibit 10 Restructuring Adjustments to the Annual Burden Inventory for the Microbial Rules ICR (Includes PWS and Primacy Agency Burden)

Action	Annual Burden Hours	Brief Explanation
		Inventory for the 2004 Microbial Rules ICR carried forward as the baseline for 2008
		Microbial Rules ICR (includes PWS, State, and EPA burden). Current opening
N/A	8,624,865	inventory for the 2008 Microbial Rules ICR.
Add	141,295	This represents the current LT2 burden inventory. This inventory is being moved from the LT2 ICR (OMB 2040-0266) into the 2008 Microbial Rules ICR.
		This represents the current GWR burden inventory. This inventory is being moved
Add	385,264	from the GWR ICR (OMB 2040-0271) into the 2008 Microbial Rules ICR.
Total	9,151,424	Microbial Rules ICR inventory based on current burden inventories.

Note: Detail may not add exactly to totals due to rounding.

6(f)(ii) Other Burden Adjustments

Changes in calculated burden are a result of updating relevant baseline information for each rule with the most current and accurate information available (e.g., PWS inventories) and updating labor rates to \$2007. Where appropriate, estimated violation, waiver, and other associated rates have also been updated to reflect current information on rule compliance. Burden also may have changed as a result of consultation with water industry representatives. Lastly, burden may have changed due to changes in rule requirements. Exhibits 11 and 12 summarize reasons for these changes and quantify the changes by rule. Burden adjustments associated with PWS activities resulted in a burden increase of 1,348,453 hours and are detailed in Exhibit 11. Burden adjustments for primacy agencies result in an increase of 170,039 hours per year, as shown in Exhibit 12.

Activity	Previous Annual Burden Estimate (hours) 2005 - 2007	2008 - 2011 Annual Burden Esimate	Change in Burden	Reason for Change in Burden
SWTR	327,924	776,724	448,800	The change in burden is attributable to the use of updated system inventories and labor rates, as well as the incorporation of burden consultation results used to calculate burden for unfiltered systems to conduct raw water coliform sampling, on-site inspections, watershed management, and raw water turbidity monitoring.
TCR	2,336,629	3,464,341	1 127 712	The change in burden results from updated system inventories, labor rates, incorporation of burden consultation results used to calculate burden for systems to continue routine total coliform sampling and reporting, repeat <i>E. coli</i> or fecal coliform sampling and reporting, and additional routine sampling as necessary. Additionally, coliform violation rates used to calculate repeat and additional monitoring burden have been updated based on SDWIS data from the FY07Q03 frozen database.
IESWTR	3,885,791	3,875,847	(9,944)	The change in burden is attributable to the use of updated system inventories and labor rates, as well as the incorporation of burden consultation results used to calculate burden for turbidity monitoring (for large systems), submitting monthly turbidity exception reports, and conducting individual filter assessments if the filter has turbidity levels
FBRR	586	0	(586)	Existing PWSs should have completed requirements associated with changing the recycle return location no later than 2006. New PWSs will design their plants to meet the return location requirements. The burden going forward is expected to be negligible.
LT1ESWTR	314,978	162,290		The change in burden results from updated system inventories, labor rates, and incorporation of burden consultation results used to calculate burden for turbidity monitoring for small systems, turbidity exceptions reporting, and the removal of disinfection benchmarking burden associated with PWSs serving 500 or fewer people, as they have completed disinfection benchmarking.
LT2ESWTR	47,401	66,406	19,005	This represents the current LT2 annual PWS burden estimate. This burden is being moved from the LT2 ICR (OMB 2040-0266) into the 2008 Microbial Rules ICR. 2008 - 2011 burden estimate reflects changes in rule requirements and incorporates burden consultation results.
GWR	260,244	176,399		This represents the current GWR annual PWS burden estimate. This burden is being moved from the GWR ICR (OMB 2040-0271) into the 2008 Microbial Rules ICR. 2008 - 2011 burden estimate reflects changes in rule requirements and incorporates burden consultation results.
TOTAL	7,173,553	8,522,006	1,348,453	Adjusted PWS Burden.

Exhibit 11 Adjustments to PWS Burden from Previous ICR Estimates

Note: Detail may not add exactly to total due to independent rounding.

Activity	Previous Annual Burden Estimate (hours) 2005 - 2007	2008 - 2011 Annual Burden Esimate	Change in Burden	Reason for Change in Burden
SWTR	89,385	183,216	93,831	The change in burden is attributable to the use of updated system inventories and labor rates, as well as the incorporation of burden consultation results used to calculate primacy agency burden associated with the review of PWS data.
TCR	792,428	591,019	(201,409)	The change in burden results from updated system inventories, labor rates, incorporation of burden consultation results used to calculate burden for primacy agencies to review routine total coliform reports, repeat <i>E. coli</i> or fecal coliform reports, and additional routine sampling reports. Additionally, violation rates have been updated based on SDWIS data from the FY07Q03 frozen database. Sanitary survey burden for years 2 and 3 is accounted for under the GWR, and is no longer included under TCR.
IESWTR	622,805	897,456	274,651	The change in burden is attributable to the use of updated system inventories and labor rates, as well as the incorporation of burden consultation results used to calculate burden for reviewing monitoring results from turbidity monitoring (for large systems), reviewing monthly turbidity exception reports, reviewing individual filter assessments, conducting comprehensive performance evaluations, and conducting sanitary surveys.
FBRR	363	0	(363)	States have completed the review and recordkeeping associated with the FBRR. The burden going forward is expected to be negligible.
LTIESWTR	253,976	141,732	(112,244)	The change in ourden results from updated system inventories, labor rates, and incorporation of burden consultation results used to calculate burden for the primacy agency to oversee turbidity monitoring for small systems and turbidity exceptions reporting. Primacy agency burden associated with disinfection benchmarking by PWSs serving 500 or fewer people has been completed, and is therefore no longer included here.
LT2ESWTR	93,894	43,844	(50,050)	This represents the current L12 annual State burden estimate. This burden is being moved from the LT2 ICR (OMB 2040-0266) into the 2008 Microbial Rules ICR. 2008 - 2011 burden estimate reflects changes in rule requirements and incorporates burden consultation results.
GWR	125,020	290,642	,.	Inis represents the current GWR annual State burden estimate. This burden is being moved from the GWR ICR (OMB 2040-0271) into the 2008 Microbial Rules ICR. 2008 - 2011 burden estimate reflects changes in rule requirements and incorporates burden consultation results.
TOTAL	1,977,871	2,147,910	170,039	Adjusted Primacy Agency Burden

Exhibit 12 Adjustments to Primacy Agency Burden from Previous ICR Estimates

Note: Detail may not add exactly to totals due to rounding.

Exhibit 13 shows the effects of these adjustments on the bottom line burden. Adding 1,348,453 hours to account for adjustments to PWS burden and adding 170,039 hours to account for adjustments to primacy agency burden yields 10,669,916 hours.

Exhibit 13 Adjustments to Annual Burden Carried Forward from Previous ICR Estimates (Includes PWS and Primacy Agency Burden)

Action	Annual Burden Hours	Brief Explanation
		2004 Microbial Rules ICR inventory based on current burden inventories (see Exhibit
None	9,151,424	10).
Add	1,348,453	Adjustment to the PWS burden carried forward from previous ICRs (see Exhibit 11).
		Adjustment to the primacy agency burden carried forward from previous ICRs (see
Add	170,039	Exhibit 12).
Total	10,669,916	Hours requested in 2008 Microbial Rules ICR (see Exhibit 9).

Note: Detail may not add exactly to totals due to rounding.

6(g) Burden Statement

The public reporting burden for collections included in this ICR is detailed in Exhibit 13 above. The annual respondent burden is estimated to average approximately 10.67 million hours, of which 8.52 million hours are attributable to PWSs and 2.15 million hours to primacy agencies (numbers may not add due to rounding. These estimates include time for gathering information as well as developing and maintaining records.

Burden means the total time, effort, or financial resources expended by people to generate, maintain, retain, disclose, or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology, and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a request for information collection unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR Part 9 and 48 CFR Chapter 15.

To comment on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques, EPA has established a public docket for this ICR under Docket ID No. EPA-HQ-OW-2008-0438, which is available for public viewing at the Water Docket in the EPA Docket Center (EPA/DC), EPA West, Room B102, 1301 Constitution Ave., NW, Washington, DC. The EPA Docket Center Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the room is (202) 566-1744, and the telephone number for the Water Docket is (202) 566-2426. An electronic version of the public docket is available through EPA Dockets (EDOCKET) at http://www.epa.gov/edocket. Use EDOCKET to submit or view public comments, to access the index listing of the contents of the public docket, and to access those documents in the public docket that are available electronically. Once in the system, select "search," then key in the docket ID number identified above. Also, you can send comments to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW, Washington, DC 20503, Attention: Desk Office for EPA. Please include the EPA Docket ID No. (EPA-HQ-OW-2008-0438) and the OMB Control No. (2040-0205) in any correspondence.

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