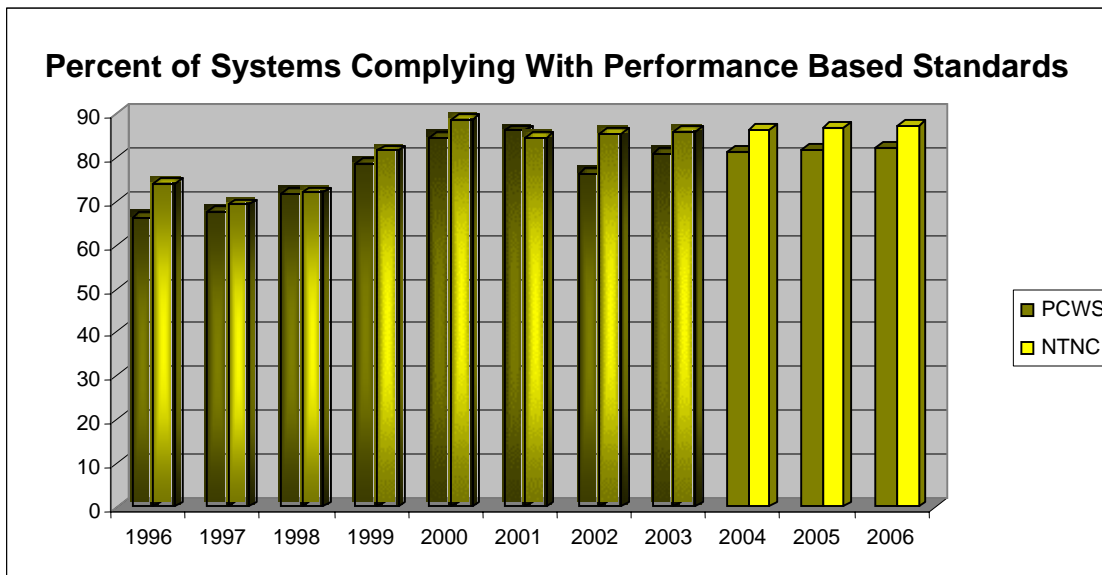


Results

Increased protection and development of safe drinking water through operational review of water systems, compliance review and assistance, and enforcement.

Key Indicators

Percent of Systems Meeting Performance Based Standards



Story Behind the Baseline Performance

Vermont has had a long standing commitment to promote public water system compliance through providing outreach and technical assistance – conducting sanitary survey inspections, education and training, and certifying water system operators, as well as enforcement action as a last resort. Historically the Division has focused its efforts on the community and non-transient non-community water systems. Over the past 18 months, the division has expanded its focus to include the transient non-community systems (TNCs). The Division is conducting sanitary surveys, source water assessments, making GWUDI determinations, and conducting site visits following fecal and repeated coliform positive test results for the TNCs. The division plans to hire three people under contract to take quarterly samples for total coliform bacteria, educate TNCs on sampling technique and monitoring requirements, and provide technical assistance during calendar year 2004. TNCs will be required to sample quarterly for coliform bacteria beginning in 2004. The Division will continue to coordinate lab testing with the Vermont Department of Health (VDH) lab and in 2004 with the Department of Environmental Conservation lab if they are certified for coliform bacteria and other drinking water contaminants. The Division continues to work closely with the VDH regarding potential health risks and requiring public notice for non-routine situations.

Strategies

Outreach and Education 2004, 2005, 2006

The Operations and Compliance section educational efforts will continue to provide operator training to Vermont operators. The Water Supply Division will continue to work closely with the NERWA and GMWEA using the funds available under the EPA Expense Reimbursement Grant. Staff will continue to educate water system personnel during the sanitary survey and other onsite meetings or site visits, and provide additional information in the Division newsletter.

Grants and Loans 2004, 2005, 2006

Grants and Loans affiliated with the Operations and Compliance Section include: 1) Operator training/assistance funded by the EPA Expense Reimbursement Grant; the section will review the ERG work plan annually and continue to reimburse operators for course fees, certification and exam fees; 2) Drinking Water State Revolving Fund Set-aside funding for emergency assistance which will be used on a case by case basis to help water systems facing an immediate crisis; and 3) Drinking Water State Revolving Fund Set-aside funding to fund an expert in water chemistry to provide technical assistance to our surface water systems and ground water systems requiring to modify or install treatment.

Efforts in 2004 also include technical assistance to systems needing to comply with the Stage 1D/DPB rule.

Regulations, Compliance Assistance, Monitoring and Enforcement 2004, 2005, 2006

(Specific to 2004)

Efforts in this area for the Operations and Compliance Section for 2004 will focus on implementation of Stage 1 Disinfectants and Byproducts Rule and LT1 Enhanced SWTR. Issuing temporary operating permits with milestones serves as the foundation for the Division's enforcement program. In calendar year 2004, the Division will acquire additional temporary staff to eliminate the 397 permit backlog, which will have accrued by 12/31/04.

Compliance assistance continues through sanitary survey inspections, including a written summary of the sanitary survey which outlines system deficiencies; providing technical assistance with operational issues and emergency situations; and automatically generating monitoring schedules for all systems-including the transient non-community water systems.

The Enforcement Workgroup is challenged with prioritizing systems and types of problems for enforcement actions. The group will focus on systems on boil water and do not drink for extended periods of time; systems with major deficiencies who have violated temporary operating permit milestones; unpermitted sources; non compliance with the surface water treatment rules; systems who have failed to conduct water quality monitoring; and non compliance with new federal regulations.

Assessment, Technical Assistance and Direct Services 2004, 2005, 2006

Major efforts in this area for the Operations and Compliance Section include providing on-site technical assistance, (including water quality sampling) to systems with fecal coliform contamination, major deficiencies, or other circumstances potentially affecting the quality and quantity of water and public health of customers served by community, non-transient non-community and transient non-community water systems.

Performance Measures

<u>Performance Measures</u>		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Number Operator Certificates Issued	P								240	250	250	250
	A	299	409	473	184	272	143	435				
% of NTNC in Compliance with Health-Based Standards	P						76	77	78	83	83	85
	A			66.0	72.3	74.3	77	83	83			
% of PCWS in Compliance with Health-Based Standards	P						74	77	80	80	82	83
	A			68.7	73.7	72.6	80	76	74			
% of NTNC Population in Compliance with Health-Based Standards	P						79	81	84	85	87	87
	A			73.3	73.6	77.6	82	88	85			
% of PCWS Population in Compliance with Health-Based Standards	P					92	93	94	95	90	91	93
	A		88.3	92.7	91.3	93	87	91	87			
Number of NOAVs issued	P									100	100	100
	A	3	8	9	63	274	230	163	61			
Number of Monitor Waivers	P				30	30	35	35	35	35	35	35
	A	40	28	26	55	62	57	30				
Number of GWUDI Determinations	P				75	200	200	200	200	350	150	10
	A	159	117	117	245	131	97	72	98			
% of PCWS Population Issued Timely Monitoring Schedules	P			100	100	100	100	100	100	100	100	100
	A	100	100	100	100	100	100	100	100			
Number of Enforcement Actions	P									15	15	15
	A				3	17	25	7	3			

<u>Performance Measures</u>		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Number of Sanitary Surveys (PCWS)	P			96	96	100	100	150	150	130	140	150
	A	83	111	105	235	116	73	79	74			
Number of Sanitary Surveys (NTNC)	P								90	100	110	110
	A	26	93	26	29	65	42	104				
Number of Sanitary Surveys (TNC)	P									35	40	50
	A	1	0	1	1	6	38	62	30			
Percentage of Systems with Certified Operator (PCWS & NTNC) **	P									99.0	99.2	99.5
	A	99.3	98.9	99.5	99.5	99.6	99.8	99.9	98.9			
Percentage of Systems with Certified Operator (TNC) ***	P									80.0	83.0	85.0
	A								77.19			
Systems With Operating Permits (PCWS & NTNC)	P									100	115	125
	A	151	146	124	230	214	79	87	80			
Systems With Operating Permits (TNC) *	P									50	75	100
	A								18			

*2003 is first year for issuing TNC permits

**Starting 2003 NTNC are included in percentage of systems with certified operators

***2003 is first year of tracking for TNC systems with operators

Proposed Accomplishments

Operating Permits Issuance – Having set goals of completing Groundwater Under the Direct Influence of surface water (GWUDI) determinations for public community water systems and non-transient, non-community systems by the end of 2003, the next task on the list was to address the Transient, Non-Community systems (TNC). The section has set a goal to complete all GWUDI determinations for TNC systems by the end of 2004 .

Sanitary Surveys – Staff in the operations program has had a good start at meeting their goal of accomplishing complete sanitary surveys over the next 5 years for all PCWS. Presently they are proposing to accomplish 110 surveys for 2003.