

**FY 2018 Michigan PWSS Indicators and Measures
October 1, 2017 through September 30, 2018**

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#	Description	Type	Used For	Name and Update Schedule	File	Target	Applicable period (CY/FY)	Results and Comments
Office of Water National Program Measures								
1	% of pop. served by CWS that receive DW that meet health based standards	NPM/GPRA	PWSS overall	SDW-2.1.1 (Updated quarterly by HQ—NPM Measures Tables filtered for active, non-RTC'd MCL violations)	National Program Manager (NPM) measures	FY14: 94% FY15: 92% FY16: 92% FY17: 92%	FY ¹ (e.g., for FY15, the measure is calculated as of October 2015 for the period 7/1/14 to 6/30/15)	FY14: EOY: 99.2% (met) FY15: EOY: 97.7% (met) FY16: EOY: 98.9% (met) FY17: EOY: 99% (met)
2	% of CWS that meet health based standards	NPM/GPRA	PWSS overall	SDW-SP1.N11 (Updated quarterly by HQ—NPM Measures Tables)	NPM measures	FY14: 93% FY15: 90% FY16: 90% FY17: 90%	same as item #1 above	FY14: EOY: 95.9% (met) FY15: EOY: 94.7% (met) FY 16: EOY: 96% (met) FY 17: EOY: 97% (met)
3	% of “person months” in which CWS are meeting health-based standards	NPM/GPRA	PWSS overall	SDW-SP2 (Updated quarterly by HQ—NPM Measures Tables)	NPM measures	FY14: 96% FY15: 95% FY16: 95% FY17: 95%	same as item #1 above	FY14: EOY: 99.8% (met) FY15: EOY: 99.2% (met) FY16: EOY: 99.6% (met) FY17: EOY: 100% (met)
4	% of CWS with minimized risk b/c of SWP	NPM/GPRA	PWSS GW SWP	SDW-SP4a (Updated annually in October by States)	NPM measures	FY14: 31% FY 15: 30% FY 16: 32% FY17: 35%	same as item #1 above	FY14: 32.2% (met)* FY15: 34.9% (met)* FY16: 35.8% (met)* FY17: 27% (not met)* *SWP voluntary in MI

¹ However, due to the lag between when data are submitted and when the FY ends, the actual date range of the data used for these measures is one quarter off from the FY.

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5	% of population served by CWSs with minimized risk b/c of SWP	NPM/GPRA	PWSS GW SWP	SDW-SP4b (Updated annually in October by States)	NPM measures	FY14: 79% FY15: 80% FY 16: 80% FY 17: 81%	same as item #1 above	FY14: 80.2% (met)* FY15: 80.7% (met)* FY16: 80% (met)* FY17: 71% (not met)* *SWP voluntary in MI
6	% of CWS with san. survey w/in the past 3 yrs +NOTE: This national measure was modified in FY14 to include both surface water and ground water systems. In prior years, this measure only reported “% of CWS with san survey within the past 3 years for Subpart H systems”.	NPM/GPRA	PWSS SS	SDW-01a (Updated annually in July by HQ – Status queries updated by Region 5 in April and October)	NPM measures +NOTE: This national measure was modified in FY14 to include both surface water and ground water systems.	FY14: 75% FY15: 79% FY16: 79% FY 17: 79%	CY (e.g., July 2014 data includes sanitary surveys at CWSs completed between 1/1/11 and 12/31/13; R5 also looks at NCWSs completed between 1/1/09 and 12/31/13, but this is not part of the national measure)	FY14: 92.2% (1261/1367) of sanitary surveys at CWSs (GW and SW) completed between CY 2012 and CY 2014. FY15: 93.3% of sanitary surveys at CWSs (GW and SW) completed between CY 2013 and CY 2015. FY16: 91.4% of sanitary surveys at CWSs (GW and SW) completed between CY 2014 and CY 2016. Specifically: CWS-SW 276/300=89.0% CWS-GW 982/1066=92.1% NCWS (GW and SW) sanitary surveys completed between CY 2012 and CY 2016: TNC-SW 11/11= 100% NTNC-GW 1212/1227=98.8% TNC-GW 7477/7587=98.6% FY17: 91% of sanitary surveys at CWSs (GW and SW) completed between CY 2015 and CY 2017. Specifically: CWS-SW 261/300=87% CWS-GW 988/1066=92.7% NCWS (GW and SW) sanitary surveys completed between CY 2013 and CY 2017: TNC-SW 10/10= 100% NTNC-GW 1224/1234=99.2% TNC-GW 7436/7525=98.8%

#	Description	Type	Used For	Name and Update Schedule	File	Target	Applicable period (CY/FY)	Results and Comments
7	Fund Utilization Rate for DW SRF (cumulative dollar amount of loan agreements divided by cumulative funds available for projects) for the DWSRF.	NPM/GPRA	DWSRF	SDW-04 (Updated annually as of June 30 by HQ and tracked through DWNIMS database)	NPM measures	This is an indicator.	The FY14 EOY data are cumulative as of 6/30/14.	<p>FY14: N/A (State-specific numbers removed. Not including State-specific targets.</p> <p>FY15: N/A (this measure not included in HQ reported measures)</p> <p>FY16: N/A (this measure not included in HQ reported measures)</p> <p>FY17: N/A (this measure not included in HQ reported measures)</p> <p>NOTE: EPA Region 5's State and Tribal Programs Branch (STPB) uses tools and resources other than national measures, SDW-04, SDW-05, and SDW-11, to provide an accurate evaluation of the state's progress in implementing the DWSRF program. Region 5 believes that the most recent DWSRF Performance Evaluation Report (PER), prepared by STPB with input from GWDWB, should be consulted for a more accurate status of the state's DWSRF program.</p>
8	# of DWSRF projects that have initiated operations (cumulative)*	NPM/GPRA	DWSRF	SDW-05 (Updated annually as of June 30 by HQ)	NPM measures	This is an indicator.	The EOY data are cumulative as of June 30 of	<p>FY14: N/A (State-specific numbers removed. Not including State-specific targets.</p> <p>FY15: N/A (this measure no</p>

#	Description	Type	Used For	Name and Update Schedule	File	Target	Applicable period (CY/FY)	Results and Comments
				and tracked through DWNIMS database)			the same year as EOY.	longer has state-specific targets, only a regional target. FY16: N/A (this measure no longer has state-specific targets, only a regional target.) FY17: N/A (this measure no longer has state-specific targets, only a regional target.)
9	% of DWSRF projects awarded to PWS serving <500, 501-3,300, & 3,301-10,000	NPM/GPRA	DWSRF	SDW-11 (Updated annually as of June 30 by HQ)	NPM measures	This is an indicator. There are no state targets.	The EOY data are cumulative as of June 30 of the same year as EOY.	FY14: HQ is not reporting to the Region state-specific or Regional EOY numbers. FY15: HQ is not reporting to the Region state-specific or Regional EOY numbers. FY16: HQ is not reporting to the Region state-specific or Regional EOY numbers. This is now an indicator reported on a regional basis. FY17: This is now an indicator reported on a regional basis.
10	# & % of small CWS and NTNCWS (<500, 501-3,300, & 3,301-10,000) w/repeat health-based NO ₃ & NO ₂ , Stage 1 D/DBP, SWTR, & TCR violations	NPM/GPRA	PWSS	SDW-15 (Updated annually in October by HQ)	NPM measures	This is an indicator. There are no state targets.	Same as item #1 above	FY14: In FY14, there were 13 small CWSs and NTNCWs (LT 10K pop) with repeat health-based NO ₃ and NO ₂ , Stage 1 D/DBP, SWTR, and TCR violations. FY15: In FY15, there were 13/2,625 (0.5%) small CWS and NTNCWs (LT 10K pop) with repeat health-based Nitrate/Nitrite, Stage 1 D/DBP, SWTR and TCR violations. FY16: In FY16, there were 9/2,627 (0.3%) small CWS and

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								NTNCWSs (LT 10K pop) with repeat health-based Nitrate/Nitrite, Stage 1 D/DBP, SWTR and TCR violations. FY17: In FY17, there were 0/2,619 (0%) small CWS and NTNCWSs (LT 10K pop) with repeat health-based Nitrate/Nitrite, Stage 1 D/DBP, SWTR and TCR violations.
11	# & % of schools and childcare centers that meet all health-based DW standards	NPM/GPRA	PWSS	SDW-17 (Updated annually in October by HQ, but can be generated from quarterly NPM measure)	NPM measures	This is an indicator.	Same as item #1 above	FY14: In FY 14, 598 out of 625 (95.5%) schools/ childcare centers met all health-based drinking water standards. FY15: In FY 15, 597 out of 624 (95.7%) schools/ childcare centers met all health-based drinking water standards. FY16: In FY 16, 611 out of 626 (97.6%) schools/childcare centers met all health-based drinking water standards. FY17: In FY 17, 613 out of 621 (98.7%) schools/childcare centers met all health-based drinking water standards.
12	# of dw and ww utilities and local, state, and fed officials receiving training and tech assistance to enhance emergency prep and resiliency to reduce risk from all hazards, including those attributed to climate change	NPM/GPRA	PWSS	SDW-21 (Updated annually in October by HQ)	TBD	This is an indicator; there are no state targets.	TBD	FY15/FY16: This measure is reported by HQ.

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Office of Enforcement and Compliance Assistance National Program Measure								
13	During FY2018, the primacy agency must address with a formal enforcement action or RTC the # of priority systems equal to the # of its PWSs that have a score of 11 or higher on the July 2017 ETT report.	NPM/OECA	PWSS ECA	SDWA02 (Updated quarterly by HQ at https://echo.epa.gov/targeting/safe-drinking-water-act-enforcement-targeting-tool-reports)	ETT website: (OECA's ECHO drinking water data website)	FY14: 13 FY15: 31 FY16: 31 FY17: 27 FY18: 41	The ETT is generated on a quarterly basis with the measure based on FY ²	FY14: Michigan committed to address with formal enforcement or RTC 13 systems in FY 2014. During FY 2014, Michigan RTC'd 31 PWSs. FY15: In FY15, Michigan committed to address 31 priority systems with formal enforcement or RTC, and Michigan exceeded this commitment by addressing 51 systems, or 165%. FY16: In FY16, Michigan committed to address 31 priority systems with formal enforcement or RTC, and Michigan exceeded this commitment by addressing 34 systems, or 110%. FY17: In FY17, Michigan committed to address 27 priority systems with formal enforcement or RTC, and Michigan exceeded this commitment by addressing 57 systems; % FY 2017 commitment met = 211%.
Regional Shared Goals								
14	1. % of NTNCWSs receive water that meets health-based drinking water	Shared Goals		(Updated annually in April by Region 5)	Regional Shared Goals		CY	CY 2014: NOTE: Asterisk (*) indicates target not met .

² Each quarterly ETT calculation includes the most current data in the associated SDWIS/FED data freeze. For example, the October 2014 ETT includes data through 6/30/2014. The ETT retrieves addressed violations going back 5 years from the most current data (i.e., for October 2014, the ETT retrieves addressed violations from 7/1/2009 to 6/30/2014). Note that addressed violations do not contribute to ETT scores. In addition, the ETT score includes all un-addressed violations, even if they are more than 5 years old.

#	Description	Type	Used For	Name and Update Schedule	File	Target	Applicable period (CY/FY)	Results and Comments
	<p>standards</p> <p>2.% of <u>TNCWSs</u> meeting all health based standards</p> <p>3. % of population served by CWSs with <u>significant/major monitoring violations</u></p> <p>4. % of CWSs with <u>significant/major monitoring violations</u></p> <p>5. % of NTNCWSs with significant/major monitoring violations for <u>acute</u> health risks</p> <p>6. % of NTNCWSs with significant/major monitoring violations for <u>chronic</u> health risks</p> <p>7. % of <u>TNCWSs</u> with significant/major monitoring violations.</p> <p>NOTE: In FY 2017, the queries for Shared Goals #2-7 for CY 2014, CY 2015, CY 2016 were re-written and calculated, so that comparisons of data between years from CY 2014 forward could be conducted more accurately.</p>					<p>By CY 2017:</p> <p>1 = ≥95%</p> <p>2 = ≥95%</p> <p>3 = <5%</p> <p>4 = <10%</p> <p>5 = <5%</p> <p>6 = <10%</p> <p>7 = <10%</p>		<p>1. 95.5% (met)</p> <p>2. 97.7% (met)</p> <p>3. 4.6% (met)</p> <p>4. 6.6% (met)</p> <p>5. 5.2%*</p> <p>6. 5.4% (met)</p> <p>7. 8.0% (met)</p> <p>CY2014 EOY: 6 out of 7 Shared Goals met. Much improvement noted from CY 2013. Only 1 goal not met, but very close; for NTNCWSs with significant/major monitoring violations for acute contaminants (nitrate/TCR).</p> <p>CY 2015: NOTE: Asterisk (*) indicates target not met.</p> <p>1. 97.0% (met)</p> <p>2. 97.1% (met)</p> <p>3. 7.4%* inc of 2.8%</p> <p>4. 13.7%* inc of 7.1%</p> <p>5. 5.5%* slight inc</p> <p>6. 14.1%* inc of 8.7%</p> <p>7. 9.5% (met) inc of 1.5%</p> <p>CY2015 EOY: 3 out of 7 Shared Goals met. The inc in Goal 3 indicates some CWSs could be having issues with significant/major monitoring violations, but the dramatic increase in Goal 4 indicates that many smaller CWSs are having problems sampling and are accruing monitoring violations. Goal number 5 not met in FY</p>

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								<p>2014 or FY 2015 for NTNCWSs with significant/major monitoring violations for acute contaminants (nitrate/TCR). Inc in Goal 6 by 8.7% may be due to NTNCWSs triennial VOC/SOC monitoring due. The inc in Goal 7 indicates TNCWSs are receiving more M/R violations for not sampling for coliform and nitrates.</p> <p>CY 2016: NOTE: Asterisk (*) indicates target not met. 1. 98.6% (met) 2. 99.7% (met) 3. 8.3%* inc of 0.9% 4. 14.2%*inc of 0.5% 5. 3.23% (met) dec of 2.3% 6. 14.7%* inc of 0.6% 7. 7.7% (met) dec of 1.8%</p> <p>CY2016 EOY: 4 out of 7 Shared Goals met. The inc in Goal 3 by 1.5% indicates some CWSs could be continuing to have issues with significant/major monitoring violations, but the increase in Goal 4 by 2.7% indicates that many smaller CWSs are having problems sampling and are accruing monitoring violations. Continued inc in Goal 6 indicates NTNCWSs are not sampling for chronic contaminants as required. The inc in Goal 7 by 1.8% indicates TNCWSs are</p>

#	Description	Type	Used For	Name and Update Schedule	File	Target	Applicable period (CY/FY)	Results and Comments
								<p>receiving more M/R violations for not sampling for coliform and nitrates.</p> <p>CY 2017: NOTE: Asterisk (*) indicates target not met. 1. 98.1% (met) 2. 99.7% (met) 3. 9.4%* inc of 1.1% 4. 12.9%*dec of 1.3% 5. 10.8%* inc of 7.6% 6. 8.1% dec of 6.6% 7. 20.6%* inc of 12.9%</p> <p>CY2017 EOY: 3 out of 7 Shared Goals met. The inc in Goal 3 by 1.1% indicates some CWSs are continuing to have issues with significant/major monitoring violations, and the decrease in Goal 4 by 1.3% indicates that many smaller CWSs are still having problems sampling and are accruing monitoring violations. Dramatic increase (7.6%) in Goal 5 is most likely due to State began reporting RTCR violations in FY 2017; also some difficulty in achieving RTCR compliance. Decrease in Goal 6 indicates NTNCWSs have improved sampling for chronic contaminants as required. The increase in Goal 7 by 12.9% is probably due in part to State began reporting RTCR violations</p>

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								in FY 2017; and also indicates TNCWSSs are having a difficult transition since April 2016 to achieving RTCR compliance.
15	New Rule Violation Completeness Reporting (GWR, LCRSTR, Stage 2, LT2).	R5 High Priority	PWSS DM	(Updated quarterly by Region 5)	Region 5 high priority query –new rule completeness reporting	None	N/A—this query pulls all violations for the new rules ever reported for any system type.	NOTE: The query used here includes all violations ever reported to SDWIS/Fed for these rules. FY14: July 2015*: <u>LT2</u> : no violations reported. <u>GWR</u> : 50 GWR M/R violations, 7 TT violations. <u>Stage 1</u> : 6 TT violations. <u>Stage 2</u> : 13 MCL violations. <u>Stage 2</u> : 169 M/R violations. <u>LCRSTR</u> : 11 consumer notification M/R violations. FY15: July 2016*: <u>LT2</u> : no violations reported. <u>GWR</u> : 59 GWR M/R violations, 12 GWR TT violations. <u>Stage 1</u> : 7 TT violations <u>Stage 2</u> : 31 MCL violations. <u>Stage 2</u> : 251 M/R violations. <u>LCRSTR</u> : 50 consumer notification M/R violations. FY16: July 2017*: <u>LT2</u> : 31 TT violations reported, 2 M/R violations reported. <u>GWR</u> : 82 GWR M/R violations, 13 GWR TT violations. <u>Stage 1</u> : 7 TT violations <u>Stage 2</u> : 34 MCL violations. <u>Stage 2</u> : 393 M/R violations. <u>LCRSTR</u> : 79 consumer notification M/R violations.

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								<p>FY17: April 2018*: <u>LT2</u>: 33 TT violations reported, 2 M/R violations reported.</p> <p><u>GWR</u>: 85 GWR M/R (source monitoring) violations, 20 GWR TT (failure to address deficiency) violations.</p> <p><u>Stage 1</u>: 8 TT (lack of certified operator) violations</p> <p><u>Stage 2</u>: 38 MCL violations.</p> <p><u>Stage 2</u>: 399 M/R violations.</p> <p>Stage 2: 19 (failure to submit DBPR Report) violations</p> <p><u>LCRSTR</u>: 118 consumer notification M/R violations.</p>
16	SW and GW Sanitary Survey Completeness (not a national measure yet)	R5 High Priority	PWSS Sanitary Surveys GWR	(Updated in April and October by Region 5)	R5 high priority query— surface and ground water	None.	CY (e.g., July 2014 data will include sanitary surveys completed between 1/1/11 and 12/31/13 and NCWS sanitary surveys completed between 1/1/10 to 12/31/14) ³	<p>FY14: As of April 2015, 92.54% (273 out of 295) of CWS SW sanitary surveys were completed, and 92.16% (988/1072) of CWS GW sanitary surveys were completed between CY 2012 and CY 2014.</p> <p>During CY 2012 – CY 2014: 100% (11/11) of TNCWS SW sanitary surveys were completed. 98.72% (1232/1248) of NTNCWS GW sanitary surveys were completed for time period CY 2010-CY 2014, and 98.4% (7613/7737) of TNCWS GW sanitary surveys were completed during time period CY 2010-CY 2014.</p>

³ This will be measured in July 2013 for CWSs surveys completed between 1/1/10 to 12/31/12, in 2014 for NCWSs surveys completed between 1/1/10 to 12/31/14, and then every year after that (with rolling three-year periods).

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								<p>FY15: As of April 2016, 97.8% (9736/9960) of all GW systems had a sanitary survey within the proper timeframe (CWS: CY 2013-CY 2015; and NTNCWS/TNCWS: CY 2011-CY 2015.)</p> <p>92.9% (276 out of 297) of CWS SW sanitary surveys were completed, and 93.4% (999/1070) of CWS GW sanitary surveys were completed between CY 2013 and CY 2015.</p> <p>During CY 2013 – CY 2015: 100% (11/11) of TNCWS SW sanitary surveys were completed. 98.1% (1206/1229) of NTNCWS GW sanitary surveys were completed for time period CY 2011-CY 2015, and 98.3% (7531/7661) of TNCWS GW sanitary surveys were completed during time period CY 2011-CY 2015.</p> <p>FY16: As of April 2017, 91.4% (1249/1366) of sanitary surveys at CWSs (GW and SW) completed between CY 2014 and CY 2016. Specifically:</p> <p>CWS-SW 267/300=89%</p> <p>CWS-GW 982/1066=92.1%</p> <p>NCWS (GW and SW) sanitary surveys completed between CY 2012 and CY 2016:</p> <p>TNC-SW 11/11= 100%</p> <p>NTNC-GW 1212/1227=98.8%</p>

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								TNC-GW 7477/7587=98.6% FY17: 91% of sanitary surveys at CWSs (GW and SW) completed between CY 2015 and CY 2017. Specifically: CWS-SW 261/300=87% CWS-GW 988/1066=92.7% NCWS (GW and SW) sanitary surveys completed between CY 2013 and CY 2017: TNC-SW 10/10= 100% NTNC-GW 1224/1234=99.2% TNC-GW 7436/7525=98.8%
17	Late RTCR Rule Reporting (In April 2016, the State began implementing RTCR. The State cannot currently report NCWS RTCR violations due to data management limitations, thus this query cannot be run for NCWSs)	R5 High Priority	PWSS DM TCR	(After April 2018, updated annually in October by Region 5)	TBD	None	CY	FY15 data is currently being re-analyzed, due to the change from TCR to RTCR in April 2016. Late RTCR violations will be evaluated in April 2018. FY16: The nitrate late reporting query will be available in April 2018. FY 17: At this time, RTCR reporting data is incomplete for MI.
18	Late Nitrate Rule Reporting	R5 High Priority	PWSS DM NO ₂ /NO ₃	(Updated annually in October by Region 5)	R5 high priority query—late nitrate rule reporting	None	CY	FY15: The data is currently being re-analyzed. FY16: The nitrate late reporting query will be available in April 2018. This query is currently being re-written due to changes in the database. There was concern that the data were being analyzed too soon, such that

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								there wasn't a chance for States to be late. FY17: The nitrate late reporting query will be available in mid-2018.
19	Arsenic MCL Non-compliance (% CWS/NTNCWS systems in violation)	R5 High Priority	PWSS As	Updated annually in January by R5	R5 high priority query—arsenic MCL noncompliance	None	This query is based on data in the 4th quarter national program measure tables (e.g., the January 2014 query covers the period from 10/1/2012 to 9/30/2013).	FY14: Data as of January 2015 indicates 99.78% CWSs were in compliance where 4 CWSs (total pop 265) had arsenic MCLs that were not RTC'd. The State has successfully reduced its number of NTNCWSs under bottled water agreements from 36 to 27; a 25% decrease. FY15: Data as of January 2016 indicates 99.86% CWSs were in compliance where 2 CWSs with 5 health-based violations (total pop 75) had arsenic MCLs that were not RTC'd. 99.39% NTNCWSs were in compliance where 8 NTNCWSs with 9 health-based violations (total pop 1,400) had arsenic MCLs that were not RTC'd. The State continues to reduce its number of NTNCWSs under bottled water agreements. FY16: Data as of January 2017 indicates 99.86% CWSs were in compliance where 2 CWSs with 7 health-based violations

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								<p>(total pop 238) had arsenic MCLs that were not RTC'd. 99.15% NTNCWSs were in compliance where 11 NTNCWSs with 14 health-based violations (total pop 1,919) had arsenic MCLs that were not RTC'd. The State continues to reduce its number of NTNCWSs under bottled water agreements. (Refer to FY 2015/FY 2016 EOY report under Compliance and Enforcement Management for further discussion of the bottled water agreements.)</p> <p>FY17: Data as of January 2018 indicates 99.78% CWSs were in compliance where 3 CWSs with 9 health-based violations (total pop 376) had arsenic MCLs that were not RTC'd. 99.15% NTNCWSs were in compliance where 8 NTNCWSs with 11 health-based violations (total pop 734) had arsenic MCLs that were not RTC'd. The State continues to reduce its number of NTNCWSs under bottled water agreements. (Refer to FY 2015/FY 2016 EOY report</p>

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								under Compliance and Enforcement Management for further discussion of the bottled water agreements.)