STATE REVIEW FRAMEWORK

Massachusetts

Clean Air Act and Resource Conservation and Recovery Act Implementation in Federal Fiscal Year 2014

U.S. Environmental Protection Agency Region 1, Boston

Final Report December 10, 2015

Executive Summary

Introduction

EPA Region 1 enforcement staff conducted a State Review Framework (SRF) enforcement program oversight review of the Massachusetts Department of Environmental Protection (MassDEP.)

EPA bases SRF findings on data and file review metrics, and conversations with program management and staff. EPA will track recommended actions from the review in the SRF Tracker and publish reports and recommendations on EPA's ECHO web site.

Areas of Strong Performance

- MassDEP has taken advantage of CMS flexibilities in both the Clean Air Act (CAA) and Resource Conservation and Recovery Act (RCRA) programs, and did an excellent job ensuring inspection coverage of CMS sources.
- For both RCRA and CAA programs, MassDEP does a good job identifying violations through inspections/report reviews and taking timely and appropriate enforcement actions to address these violations.
- MassDEP does a good job assessing CAA and RCRA penalties for significant violations, and where applicable, includes gravity and economic benefit components.

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I. Background on the State Review Framework

The State Review Framework (SRF) is designed to ensure that EPA conducts nationally consistent oversight. It reviews the following local, state, and EPA compliance and enforcement programs:

- Clean Air Act Stationary Sources (Title V)
- Resource Conservation and Recovery Act Subtitle C

Reviews cover:

- **Data** completeness, accuracy, and timeliness of data entry into national data systems
- **Inspections** meeting inspection and coverage commitments, inspection report quality, and report timeliness
- **Violations** identification of violations, determination of significant noncompliance (SNC) for the RCRA program and high priority violators (HPV) for the CAA program, and accuracy of compliance determinations
- **Enforcement** timeliness and appropriateness, returning facilities to compliance
- **Penalties** calculation including gravity and economic benefit components, assessment, and collection

EPA conducts SRF reviews in three phases:

- Analyzing information from the national data systems in the form of data metrics
- Reviewing facility files and compiling file metrics
- Development of findings and recommendations

EPA builds consultation into the SRF to ensure that EPA and the state understand the causes of issues and agree, to the degree possible, on actions needed to address them. SRF reports capture the agreements developed during the review process in order to facilitate program improvements. EPA also uses the information in the reports to develop a better understanding of enforcement and compliance nationwide, and to identify issues that require a national response.

Reports provide factual information. They do not include determinations of overall program adequacy, nor are they used to compare or rank state programs.

Each state's programs are reviewed once every five years. The first round of SRF reviews began in FY 2004. The third round of reviews began in FY 2013 and will continue through FY 2017.

II. SRF Review Process

Review period: 2014

Key dates: File Reviews

March 27, 2015 – MassDEP Northeast Regional Office March 31, 2015 – MassDEP Central Regional Office April 14, 2015 – MassDEP Western Regional Office April 23, 2015 – MassDEP Southeast Regional Office

State and EPA key contacts for review:

Clean Air Act

Christine Sansevero, EPA Air, (617) 918-1699 Laurel Carlson, MassDEP Air, (617) 348-4095

Resource Conservation and Recovery Act

Lisa Papetti, EPA RCRA, (617) 918-1756 Laurel Carlson, MassDEP RCRA, (617) 348-4095

State Review Framework

James Chow, EPA, (617) 918-1394 Lucy Casella, EPA, (617) 918-1759

III. SRF Findings

Findings represent EPA's conclusions regarding state performance and are based on findings made during the data and/or file reviews and may also be informed by:

- Annual data metric reviews conducted since the state's last SRF review
- Follow-up conversations with state agency personnel
- Review of previous SRF reports, Memoranda of Agreement, or other data sources
- Additional information collected to determine an issue's severity and root causes

There are three categories of findings:

Meets or Exceeds Expectations: The SRF was established to define a base level or floor for enforcement program performance. This rating describes a situation where the base level is met and no performance deficiency is identified, or a state performs above national program expectations.

Area for State Attention: An activity, process, or policy that one or more SRF metrics show as a minor problem. Where appropriate, the state should correct the issue without additional EPA oversight. EPA may make recommendations to improve performance, but it will not monitor these recommendations for completion between SRF reviews. These areas are not highlighted as significant in an executive summary.

Area for State Improvement: An activity, process, or policy that one or more SRF metrics show as a significant problem that the agency is required to address. Recommendations should address root causes. These recommendations must have well-defined timelines and milestones for completion, and EPA will monitor them for completion between SRF reviews in the SRF Tracker.

Whenever a metric indicates a major performance issue, EPA will write up a finding of Area for State Improvement, regardless of other metric values pertaining to a particular element.

The relevant SRF metrics are listed within each finding. The following information is provided for each metric:

- **Metric ID Number and Description:** The metric's SRF identification number and a description of what the metric measures.
- **Natl Goal:** The national goal, if applicable, of the metric, or the CMS commitment that the state has made.
- Natl Avg: The national average across all states, territories, and the District of Columbia.
- **State N:** For metrics expressed as percentages, the numerator.
- **State D:** The denominator.
- State % or #: The percentage, or if the metric is expressed as a whole number, the count.

Clean Air Act Findings

CAA Element 1 —	Data					
Finding 1-1	Meets or Exceeds Expectations					
Summary	MassDEP did an excellent job entering facility data, compliance monitoring da accurately entered in a timely way.					
Explanation	Of the five data metrics that set a nation national goal in three of the metrics and all five areas. For the two data metrics national goal, MassDEP was able to expose not counted. For the "timely reporting MDRs," a batch upload to AFS occurred data had been entered in the state databactions through a quality control check uploaded them to AFS. For the "violate enforcement action," half of the not-conresolved on the same day. The remaining on October 1, 2014. Therefore, in sumstate percentage of 100% for these two. In addition, EPA reviewed 32 of MassI data entry to be accurate.	l exceed that we plain ex of come ase. Ma of the coins repunted acong upday, MassI metrics	ds the nere slight actly we pliance re all the assDEP data and corted perions we are seen we be as well as as well as as well as as well as as well are slight as a seen are seen seen ar	ationa ntly lest why the monit e mont discover discover er info vere er re uplo ould ha	l aver is than e data oring thly st vered nally ormal ntered paded ave ha	age in the was ate the and to AFS d a
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	State N	State D	State % or #
	2b Accurate MDR data in AFS	100		32	32	100%
	3b1 Timely reporting of compliance monitoring MDRs	100	83.30	326	345	94.5%
	3b2 Timely reporting of stack test dates and results	100	80.80	123	123	100%
	3b3 Timely reporting of enforcement MDRs	100	77.90	116	116	100%
	7b1 Violations reported per informal actions	100	65.60	58	74	78.40%
	7b3 Violations reported per HPV identified	100	63.20	7	7	100%
State response	No additional comment.					
Recommendation	None.					

CAA Element 2 —						
Finding 2-1	Meets or Exceeds Expectations					
Summary	MassDEP did an excellent job ensuring sources.	inspec	tion co	verage	of CI	MS
Explanation	MassDEP has an alternative CMS plan. MassDEP committed to inspect 53 Title sources. In addition MassDEP committee (24 SM<80s and 76 minor sources). Maccommitments under the CMS. Note that universe of synthetic minors (non SM-80 analysis (see table below), the denominal synthetic minors and minors that MassD opposed to the full AFS universe of non-Regarding the values displayed on ECH6 SM80) and minors, the denominator includes	V majed to inssDEA t Mass Os) and tor is to EP co -SM-8 O for so ludes t	jor sour nspect 12 P met al DEP had d minor the nun mmitte 10s and syntheti	ces and 100 sm 100 sm 11 of its as a very source, aber of d to in minor c minor re univ	d 21 Shaller shall shaller shaller shall shaller shall	SM-80 sources ection ge or this as es. on-
	synthetic minors and minor sources. How those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ticertifications it received in FY14 and me	ative (complete tification issued tile V a	CMS pl ted by S ions, wl d Title Y annual o	an for Septem nile M V pern compli	FY 20 aber 30 assDE nits in iance	014 0, EP has
Relevant metrics	those sources that were part of the alternand where an FCE was expected to be concluded. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Title V	ative (complete tification issued tile V a	CMS pl ted by S ions, wl d Title Y annual o	an for Septem nile M V pern complid be 10	FY 20 aber 30 assDE nits in iance	014 0, EP has FY14.
Relevant metrics	those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ti certifications it received in FY14 and me	ative (complete tification issued the Value tific 56 Natl	ions, which is the control of the co	an for Septemental MV permocomplid be 10	assDEnits in iance 00%.	014 0, EP has FY14.
Relevant metrics	those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ti certifications it received in FY14 and me	ative (complete tification issued the Valetric 50 Natl Goal	ions, which is the control of the co	an for Septemental MV perm complid be 10	assDEnits in iance 00%.	014 0, EP has FY14. State % or #
Relevant metrics	those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ti certifications it received in FY14 and me Metric ID Number and Description 5a FCE coverage: majors and mega-sites	tification issued the Value of	ions, which is a should Title is annual of the should have should be should	an for Septemental MV perm complid be 10 State N 53	assDE	014 0, EP has FY14. State % or #
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Relevant metrics	those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ti certifications it received in FY14 and me Metric ID Number and Description 5a FCE coverage: majors and mega-sites 5b FCE coverage: SM-80s 5c FCE coverage: synthetic minors (non-SM 80s) that are part of CMS plan 5d FCE coverage: minor facilities that are part	tificati issued ttle V a etric 56 Natl Goal 100 100	ions, what ions ions ions, what ions ions ions ions ions ions ions ions	an for Septemental MV permeters of the 10 State N 53 21 24	assDEnits in iance 00%. State D 53 21	014 0, EP has FY14. State % or # 100% 100%
Relevant metrics State response	those sources that were part of the altern and where an FCE was expected to be co 2014. Regarding reviews of Title V annual cer 134 Title V facilities, only 129 had been Therefore, MassDEP reviewed all the Ti certifications it received in FY14 and me Metric ID Number and Description 5a FCE coverage: majors and mega-sites 5b FCE coverage: SM-80s 5c FCE coverage: synthetic minors (non-SM 80s) that are part of CMS plan 5d FCE coverage: minor facilities that are part of CMS plan 5e Review of Title V annual compliance	tificati issued ttle V a etric 56 Natl Goal 100 100	ions, what ions ions ions, what ions ions ions ions, which is annual of the ions ions ions ions ions ions ions ions	an for Septemental MV permeters of the MV perm	assDE nits in itance 00%. State D 53 21 24	014 0, EP has FY14. State % or # 100% 100%

CAA Element 2 —	Inspections					
Finding 2-2	Area for State Attention					
Summary	Of the inspection reports reviewed, most comprehensive reports that contained accelerminations. However, the file review associated the reports.	curate	compli	ance		
Explanation	MassDEP has a standard inspection reports requirements for compliance moniformat helps ensure that the inspection represented that not all inspectors are using most reports contained extensive detail a observations, a few reports were not as districted that strayed from the standard format. In addition, a few inspection reports were the inspection and some reports did not dereport was written. In some cases, the interport was written. In some cases, the interport was part of the file review, EPA reference in the inspection for written complete their review of all relevant received hist to documents the review. How include a section for written comments of might make as a result of their review. The informally enforcement follow-up either informally enforcement follow-up either informally.	toring eport of act inspectors this standard exception the exception of the exception of the expectors are observed as per obs	ten seven the da ors were port. ed a nur off-site ports are the che cryation ould be concert.	This all of The forma ess de rticular eral mote the e waiti	the file rett. When the script arly the onths inspecting for offs. Insout the does inspectially leading to the does inspectially leading the script of the s	eview nile ion and lose after ection resite pectors iis not ectors nelpful
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	State N	State D	State % or #
	6a Documentation of FCE elements	100		22	25	88.0%
	6b Compliance monitoring reports reviewed that provide sufficient documentation to determine facility compliance	100		20	23	87.0%
State response	MassDEP will address EPA comments b 1. modifying the FCE review check compliance staff to record observ 2. Sending a memo out to all comple utilize the inspection report temp reports in a timely manner.	list to ations iance	and co	mmen mindir	its; an	d m to

Recommendation

- 1) EPA recommends that MassDEP send a directive (within 30 days after completion of the SRF Report) to its regional staff conducting inspections informing/reminding them to use the standard inspection template in lieu of individual templates. Each report must be dated.
- 2) EPA recommends that MassDEP's regional staff conducting inspections complete their inspection reports within 30 days of the inspection even if they are awaiting additional information. Inspectors can document their review of any additional information in a dated memo to the file.
- 3) EPA recommends that MassDEP update its checklist for off-site FCEs to include a narrative section and encourage regional staff conducting inspections to summarize their observations of their review in this new section.

CAA Element 3 —	Violations					
Finding 3-1	Meets or Exceeds Expectations					
Summary	MassDEP does an excellent job identif	ying vio	olations	and H	IPVs.	
Explanation	Based on the information from the file make accurate compliance determination five HPV files reviewed, all five appear determinations.	ons in 2	9 out of	29 ca	ises. (Of the
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	State N	State D	State % or #
	8a HPV discovery rate at majors		3.10%	7	140	5%
	7a Accuracy of compliance determinations	100		29	29	100%
	8c Accuracy of HPV determinations	100		5	5	100%
State response	No additional comment.					
Recommendation	None.					

CAA Element 4 —	Enforcement					
Finding 4-1	Meets or Exceeds Expectations					
Summary	MassDEP does an excellent job taking e complying actions, and returning facilities way.				-	_
Explanation	Based on the information from the file retake appropriate action in 15 out of 15 five out of the five HPVs. MassDEP has engaging with violators, being clear abound resolving enforcement promptly. OFY14, all but one were addressed within	ormal e s a well out expe of the six	enforcer l-devel ectation x HPV	ment a oped pass and s iden	action proced timefi tified	s and in lure for rames, in
	HPV policy. MassDEP could not addre timeframe because it was waiting for test	ss this l	HPV w	ithin t		by the
Relevant metrics	HPV policy. MassDEP could not addre	ss this lasting to	HPV w	ithin tace.		
Relevant metrics	HPV policy. MassDEP could not addret timeframe because it was waiting for test	ss this lasting to	HPV w take pl	rithin tace. State	State	State
Relevant metrics	HPV policy. MassDEP could not addret timeframe because it was waiting for test timeframe because it was waiting for the same because it was a supplied to the same because it wa	ss this l sting to Natl Goal	HPV w take pl	state	State D	State % or #
Relevant metrics	HPV policy. MassDEP could not addret timeframe because it was waiting for test timeframe because it was waiting for test timeframe because it was waiting for test timeframe. Metric ID Number and Description 9a Formal enforcement responses that include required corrective action that will return the facility to compliance in a specified timeframe 10b Appropriate enforcement responses for	ss this I sting to Natl Goal	HPV w take pl	State N 15	State D	State % or #
Relevant metrics State response	HPV policy. MassDEP could not addret timeframe because it was waiting for test timeframe because it was waiting for test timeframe because it was waiting for test timeframe and Description 9a Formal enforcement responses that include required corrective action that will return the facility to compliance in a specified timeframe 10b Appropriate enforcement responses for HPVs	ss this I sting to Natl Goal	HPV w take pl Natl Avg	State N 15	State D 15	State % or # 100%

CAA Element 5 —	Penalties					
Finding 5-1	Area for State Attention					
Summary	MassDEP does a good job assessing pen economic benefit. However, MassDEP detailed economic benefit calculation.			_	•	and
Explanation	Based on information from the file revier developed procedure for calculating pent tool includes detailed sections on gravity economic benefit section allows an inspecton of the economic benefit as well as an explanation determined to be insignificant). It appears not making full use of this utility of Penerol In addition, because MassDEP issues or little difference between the initial and for there are differences, MassDEP does not arrived at the final penalty. MassDEP heregarding how to document these differences appear that MassDEP staff are fully imposed.	alties. y and e ector to ion of l ars that Calc. ders or inal pe t alway as issuences i	MassI conom o include now it v MassI n conse enalty. ys docu ed guid n PenC	DEP's ic bende the was cade DEP in the Hower thance talc. It	"PenCefit. I walue loulate spector wer, who with o staff does	The of the ed (or ors are often when
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	State N	State D	State % or #
	11a Penalty calculations include gravity and economic benefit	100		14	14	100%
	12a Documentation on difference between initial and final penalty	100	•	11	13	84.60%
State response	MassDEP issued new guidance to staff of in FFY14. Based on the findings of the Streissued. MassDEP will also include train documenting penalty changes in periodic	SRF, thining o	nis guid on the p	lance v rocedu	vill be	
Recommendation	EPA recommends that MassDEP send a	11				

CAA Element 5 —	Penalties					
Finding 5-2	Area for State Attention					
Summary	MassDEP does an excellent job ensuring However, the file review revealed some reporting penalties to EPA data systems	minor	-			
Explanation	MassDEP has a multi-media program me compliance with CAA, RCRA, and induced as a result, many of MassDEP's enforced actions. The file review revealed that Me total combined penalty to both the CAA sometimes reports the total combined per In addition, MassDEP has a practice of sof the penalty provided that a violator do the order within one year of the effective some cases with suspended penalties, the MassDEP reports the full proposed penalty.	ement lassDE and R enalty of sometimes note that end the file rile rile rile rile rile rile rile r	wastewa action a EP some CRA da only to mes sus t violate of the o review r	ater re ure mu etimes atabas one da spendi e any p rder. reveale	quirentliti-meter reportes or a porovision Howe	ments. edia ts the e. cortion ion of ever, in
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	State N	State D	State % or #
	12b Penalties collected	100		13	13	100%
State response	The procedure for reporting penalties had cash assessed portion of the penalty attri- reported into ICIS-Air.					•
Recommendation	As a result of the SRF file review, Mass to report only the cash-assessed CAA poaction to ICIS-Air. EPA recommends the procedure.	ortion o	of any n	nulti-r	nedia	penalty

Resource Conservation and Recovery Act Findings

RCRA Element 1 -	— Data					
Finding 1-1	Area for State Attention					
Summary	MassDEP has done a good job at gettir RCRAInfo system. There were a few inconsistencies and there is a backlog on not been returned to compliance.	instanc	es of m	inor da	ata	have
Explanation	MassDEP had only very minor data incomplied review, mostly associated with the in multi-media actions. There were for of a penalty was not in the system, or a RCRAInfo or a combined penalty was was one file that did not have a return that and one that did not have the informal system because data was not updated of example, there were several instances in returned to compliance, but the return the entered into the database or the return to one of several violations.	entry of ar cases penaltin both to compaction if action if a second in which to compact of the compact is a second in which to compact is a second in which the compact is a second in which the second in	of penals in what y for an Nation RCR dary vinot combinance obtains	Ity amount ich a Rother nal data date ir Alnfordiolators ompandate w	count co CRA media abases a RCR s are in updat y had vas not	ollected portion was in There AInfo
Relevant metrics	Metric ID Number and Description	Natl Goal		State N	State D	State % or #
	2a Long-standing secondary violators					130
	2b Complete and accurate entry of mandatory data	100%		25	31	80.6%
State response	MassDEP will address EPA comments 1. Modifying the procedure for report that only the cash assessed port RCRA violations will be report 2. Periodically review the unaddress to resolve outstanding cases in	porting ion of ted.	the pen	alty att	ribute	d to
Recommendation	EPA recommends that MassDE CAA actions in ICIS-Air and R		•	_		

- in RCRAInfo especially when the enforcement action addresses violations of both programs.
- 2) Similarly, EPA recommends that if MassDEP suspends penalties, it only report the reduced assessed penalty to EPA data systems. If MassDEP collects the suspended or stipulated penalties, they should be reported as separate actions.
- 3) MassDEP should run a RCRAInfo report of unaddressed secondary violators every year so that they can be resolved in a timely manner and to avoid an increasing backlog.

RCRA Element 2 –	– Inspections					
Finding 2-1	Meets or Exceeds Expectations					
Summary	MassDEP has taken advantage of LQG the RCRA CMS. MassDEP completed with the exception of one TSD inspectit two-year cycle due to an oversight.	all of i	ts mano	latory	inspec	tions
Explanation	MassDEP has taken advantage of LQG years. MassDEP has identified small or risk, repeat violators or acting out of statevel of non-compliance at the flex fact inspections and LQG five-year coverage reflected in the data. Overall, MassDEF FY14, significantly more than any other MassDEP inspects all of the state-regulyear, which is a state mandate and more CMS requires. There are two TSDFs to two-year cycle covered by this review. by EPA that is not included in the Mass operating, but has not been certified clequantity generator with 90-day storage facility was in September of 2012 and date was an oversight by the state. The inspected in FY15.	quantity atus. Milities. Ye as a ser state lated under the fire spectrum of the fire area. The fire area. The fail	y general lassDEl The red result of ected 23 in Reginiverse ent that we not be rest facilianiverse he secon the last ure to in	tors the P has fuction of LQG facility on I. of TSI what een instity, a Fe, is no nd facility pections and facility pections and facility pections are the pections of the P has been inspections of the P has full pections	ound a in LQ flexibilities in DFs even the RO spected longe illity is strion at since the since	high higher G wility is a large a large this
Relevant metrics	Metric ID Number and Description	Natl Goal		State N	State D	State % or #
	5a Two-year inspection coverage of operating TSDFs	100%	88.4%	10	11	90.9%
	5b Annual inspection coverage of LQGs	20%	20.1%	56	406	13.4%
	5c Five-year inspection coverage of LQGs	100%	67.1%	280	406	69%
	5d Five-year inspection coverage of active SQGs		10%	350	2503	14%
	5e1 Five-year inspection coverage of active conditionally exempt SQGs					308

State response	No additional comment.
Recommendation	None.

RCRA Element 2	— Inspections					
Finding 2-2	Area for State Attention					
Summary	Most inspection reports are written wit compliance and are written in a very time.				detern	nine
Explanation	Two of 32 inspection reports in the file way to tell if the report had been comp of 32 files did not have sufficient detail identification, process information or volume of the matter	leted in I that in riolation ag the fi y violat here wan aspection use a ve there a	a time acluded as. ile revious a sign as a sign docuersion are still	ely mand facilities in a some conficant conficant of a stall severa	luded interest to sindard	facility photos nce the format
	that included reports with insufficient of different format.		-	-		
Relevant metrics	that included reports with insufficient of		Natl	omplete		g a State
Relevant metrics	that included reports with insufficient of different format.	detail, v	Natl	State	State	g a State % or
Relevant metrics	that included reports with insufficient of different format. Metric ID Number and Description 6a Inspection reports complete and	Natl Goal	Natl	State N	State D	g a State % or # 90.6%
Relevant metrics State response	that included reports with insufficient of different format. Metric ID Number and Description 6a Inspection reports complete and sufficient to determine compliance 6b Timeliness of inspection report	Natl Goal 100% by sen	Natl Avg	State N 29 30 memoction re	State D 32 out to eport	g a State % or # 90.6%

- standard inspection template in lieu of individual templates. Each report must be dated.
- 2) EPA recommends that MassDEP's regional staff conducting inspections complete their inspection reports within 30 days of the inspection even if they are awaiting additional information. Inspectors can document their review of any additional information in a dated memo to the file.

RCRA Element 3 — Violations							
Finding 3-1	Meets or Exceeds Expectations						
Summary	MassDEP does a good job of identifying violations at a high percentage of inspections and identifying SNCs, when appropriate.						
Explanation	MassDEP exceeds the national average in both identification of violations and identification of SNCs. The file reviews were consistent with the statistics indicated by the data metrics. The review of the files also showed that compliance determinations and SNC determinations were being conducted appropriately.						
Relevant metrics	Metric ID Number and Description	Natl Goal		State N	State D	State % or #	
	7b Violations found during inspections □		36.7%	105	232	45.3%	
	8a SNC identification rate		2%	19	232	8.2%	
	7a Accurate compliance determinations	100%		30	30	100%	
	8c Appropriate SNC determinations	100%		20	20	100%	
State response	No additional comment.						
Recommendation	None.						

RCRA Element 3 — Violations						
Finding 3-1	Meets or Exceeds Expectations	Meets or Exceeds Expectations				
Summary	Most SNCs were identified within 150	Most SNCs were identified within 150 days of Day Zero.				
Explanation	The data metric shows that the SNC dates were not all within 150 days of day zero. MassDEP negotiates and issues Administrative Consent Orders for most of its cases. These actions are unilateral and MassDEP has found that its practice of issuing Consent Orders avoids appeals and lengthy litigation. There has been a long-standing agreement between Region I and MassDEP that cases are not entered as SNC until the Consent Order is finalized since the specifics of violations may not be final until the Consent Order is issued. The cases in which SNCs were not identified within the timeframe were for multi-media violations which can result in protracted evidence collection and/or negotiations. Considering these facts, MassDEP still identifies most SNCs well within the timeframes.					
Relevant metrics	Metric ID Number and Description	Natl Goal		State N	State D	State % or #
	8b Timeliness of SNC determinations	100%	85.2%	19	23	82.6%
State response	No additional comment.					
Recommendation	None.					

RCRA Element 4 -	— Enforcement					
Finding 4-1	Meets or Exceeds Expectations	Meets or Exceeds Expectations				
Summary	11 1	MassDEP took appropriate action for all of the cases reviewed and brought actions that returned facilities to compliance.				
Explanation	The file review showed that MassDEP is bringing actions for cases that represent RCRA significant noncompliance. Since MassDEP often issues multi-media enforcement actions, there were also cases reviewed for which lower-level RCRA violations were included in a formal enforcement action for another media. MassDEP set compliance measures and timeframes for return to compliance in its actions and often re-inspects a facility to confirm return to compliance.					
Relevant metrics	Metric ID Number and Description	Natl Na Goal Av		e State D	State % or #	
	9a Enforcement that returns violators to compliance		28	28	100%	
	10b appropriate enforcement taken to address violations		28	28	100%	
State response	No additional comment.					
Recommendation	None.					

RCRA Element 4 — Enforcement						
Finding 4-2	Meets or Exceeds Expectations					
Summary	Most MassDEP RCRA enforcement actions were issued within 360 days of Day Zero.					
Explanation	MassDEP reviewed each of the cases listed in metric 10(a) and provided supporting information to EPA for the reason that it exceeded 360 days. Of the six SNCs not addressed in a timely manner, two were addressed within weeks of day 360 and four included extenuating circumstances including delays in negotiating a SEP, inadequate submittals from the company, and delays due to industrial wastewater violations in the same action. Also, since MassDEP is issuing Administrative Consent Orders in most cases, rather than an initial and final action, most matters are addressed and fully resolved in a very timely fashion.					
Relevant metrics	Metric ID Number and Description	Natl Goal		State N	State D	State % or #
	10a Timely enforcement taken to address SNC	80%	84.3%	18	24	75%
State response	No additional comment.					
Recommendation	None.					

RCRA Element 5 -	— Penalties					
Finding 5-1	Meets or Exceeds Expectations	Meets or Exceeds Expectations				
Summary	MassDEP is assessing penalties for significant violations that include a gravity and economic benefit component, where applicable.					
Explanation	The file review showed that MassDEP is assessing and collecting penalties and economic benefit for cases where there is significant noncompliance. Penalties are consistent with MassDEP's policies and consider economic benefit, when appropriate. Documentation that penalties were collected was present in all files reviewed. The entry of the penalty amount into RCRAInfo is an issue addressed in Element 1.					
Relevant metrics	Metric ID Number and Description	Natl Natl Goal Avg	State N	State D	State % or #	
	11a Penalty calculations include gravity and economic benefit	100%	19	19	100%	
	12b Penalties collected	100%	19	19	100%	
State response	No additional comment.					
Recommendation	None.					

RCRA Element 5 -	— Penalties					
Finding 5-2	Area for State Attention					
Summary	MassDEP did not always provide clear documentation of how it arrived at an amount for economic benefit and initial/final gravity amounts.					
Explanation	MassDEP is assessing penalties and economic benefit for significant violations. Many of MassDEP's formal actions are for violations in more than one media. MassDEP's cases and penalty assessments are presented before a Regional Enforcement Review Committee (RERC.) In most cases reviewed during the file review, there were memos or fact sheets that clearly justified changes in penalties and how the case team arrived at a number for economic benefit. In some cases the reductions were numerically represented, but there was no explanation as to why they had been made.					
Relevant metrics	Metric ID Number and Description		Natl Avg	Stat e N	Stat e D	State % or #
	12a Documentation on difference between initial and final penalty	100 %		16	19	84.2
State response	MassDEP issued new guidance to staff on penalty documentation early in FFY14. Based on the findings of the SRF, this guidance will be reissued. MassDEP will also include training on the procedure for documenting penalty changes in periodic Pencalc Training.					
Recommendation	EPA recommends that MassDEP send a directive (within 30 days after completion of the SRF Report) to its regional staff conducting inspections informing/reminding them to make full use of the tools within PenCalc to document economic benefit determinations as well as any differences between proposed and final penalties.					

Appendix

[The following information has been furnished by MassDEP.]

MassDEP General Program Overview

MassDEP's organizational structure related to compliance and enforcement is composed of the Commissioner's Office, the Bureaus of Air and Waste (formerly Waste Prevention), Water Resources (formerly Resource Protection) and Waste Site Clean-up, the Offices of General Counsel, Enforcement, and Research and Standards, four regional offices and the Wall Experiment Station (laboratory). The Bureau of Air and Waste (BAW) is responsible for implementing state and federal programs regarding air quality, hazardous waste, industrial waste water (compliance & enforcement only), toxics, underground storage tanks and solid waste management and recycling. The Bureau of Water Resources (BWR) is responsible for implementing programs regarding drinking water, stormwater, wastewater, industrial waste water (permitting), wetlands and waterways. The Bureau of Waste Site Clean-up (BWSC) is responsible to manage the assessment and clean-up of releases of hazardous waste and waste oil.

Overall management of compliance and enforcement is the responsibility of the Deputy Commissioner for Operations and Environmental Compliance. Implementing compliance assurance activities including conducting inspections, providing technical assistance, and taking appropriate enforcement actions are largely, but not solely, a function of the regional offices. In addition to the regional enforcement, the Environmental Strike Force (ESF), which is headquartered in Boston and has investigators in each Region, coordinates and supports programs across the Department to properly identify and develop a civil and criminal cases for referral to and prosecution by the Attorney General's Office (AGO). ESF also develops and initiates select Bureau based administrative enforcement action out of the Boston office. Cases are identified for referral to AGO through a longstanding and formal bi-monthly meeting called the Case Screening Committee (CSC), which is comprised of ESF senior staff, other Department enforcement leads, and AGO enforcement chiefs. CSC is a complement to the well- established Regional Enforcement Review Committee (RERC), that meets regularly in each region, and that reviews all cases for a consistent approach to policy application, enforcement, and referral to CSC. In addition to coordination and partnership with the criminal and civil divisions of the AGO, ESF works closely with local police departments, develops cases for prosecution by local District Attorneys, and performs joint investigations with the EPA Criminal Investigative Division (CID). Other MassDEP enforcement staff also coordinate compliance and enforcement related activities with municipal agencies, including Departments of Public Works, Boards of Health and Conservation Commissions.

In the mid-1990s, MassDEP re-organized its EPA delegated compliance and enforcement programs, making them fully multi-media. As a result, MassDEP inspectors are no longer single media inspectors (CAA, RCRA, etc.) Instead they conduct multi-media or FIRST (Facility-Wide Inspections to Reduce the Source of Toxics) inspections where appropriate. When carrying out an inspection, a multi-media inspector assesses the compliance of a facility with all applicable statutes and regulations. All inspection documents and any subsequent enforcement documents address all applicable statutes and regulations. MassDEP usually addresses all violations at a facility through a single enforcement action that includes violations under all of the specific statutes and regulations involved. While the state review framework (SRF) does not usually evaluate the benefits of a multi-media compliance program as part of this review, MassDEP believes that multi-media inspections help prevent inter-media transfer of pollutants and provides opportunities to promote MassDEP's Toxic Use Reduction requirements.

In FY14, Massachusetts was operating under an approved Alternative Compliance Monitoring Strategy (ACMS). This plan revised the inspection schedule for Major and Synthetic Minor Air sources as well as Large Quantity Generators (LQGs) where there were no violations warranting administrative or civil orders or penalties, or criminal penalties (orders or penalties) or designation as a High Priority Violator (HPV) or Significant Non-Compliance (SNC) at their last inspection or report review. This allowed MassDEP to shift effort to multi-media inspections of 100 smaller Minor or Synthetic Minor Air sources which are also Small Quantity Generators or Very Small Quantity Generators of Hazardous waste. While the Air Title V Major, Air Synthetic Minor 80% (SM80) and RCRA LQG facilities have been routinely inspected for many years, the vast majority of the smaller Air and RCRA facilities are visited relatively rarely. Yet past experience has demonstrated that these smaller sources may be missing appropriate permits and registrations, may not be controlling emissions or managing waste adequately, or may not be conducting proper monitoring or record-keeping. When taken as a group, improper environmental management at small facilities can have a significant cumulative impact on environmental quality. Smaller sources also can have harmful impacts, particularly if the facilities are located in densely populated or environmentally sensitive areas.

Inspections were targeted for three groups:

- Potential High Risk sources including: sources subject to national emission standards for hazardous air pollutant (NESHAP); sources with actual emissions of volatile organic compounds (VOC) of greater than 10 tons per year; sources in North American Industry Classification (NAIC) codes know to use highly toxic substances; and sources with older add-on air pollution control equipment.
- Potentially under regulated facilities including sources that may be reporting high RCRA waste amounts but low air emissions and vice versa.
- Potential "Outside the System" facilities and sources that may have been built and begun operating in recent years without permits.

The Compliance Monitoring Strategy (CMS) fields in EPA's Air Facility System (AFS) were updated to include these sources for FY14 and compliance and enforcement actions taken for these sources were reported to EPA's AFS and RCRAInfo systems. Some of these sources may be on the list for file review in this round of the SRF.

Finally, in addition to reporting the performed actions at the ACMS sources in the appropriate federal data systems, MassDEP is tracking each Full Compliance Evaluation (FCE) or Compliance Evaluation Inspection (CEI) and its outcome, including whether or not the compliance evaluation resulted in enforcement. If enforcement was taken the tracking includes an assessment of whether the corrective action resulted in the facility such as: decreasing emissions to the air; obtaining the required approvals and/ or installing emission control equipment; or improving recordkeeping, monitoring, or reporting. The findings are prepared in a report to EPA (FY13-14 results are available at this time)

Resources

In 2002 MassDEP had 1210 Full Time Equivalent (FTE) s. By FY 2014, that number was reduced to less than 800. During this time period, MassDEP's responsibilities have increased significantly with the implementation of many new requirements such as the transition of the federal UST requirements from the State Fire Marshal to MassDEP and the passage of the Global Warming Solutions Act. A summary of the budget and resource trend is as follows:

MassDEP State Budget		
Fiscal Year	Funding (in millions)	FTE
FY05	\$52	853
FY09	\$58.7	1004
FY14	\$ 56	780

With staff and budget reductions of this magnitude, all activities have been cut significantly. The ACMS adopted by Massachusetts and approved by EPA is one measure implemented to maintain and improve environmental oversight in face of shrinking resources.

The Department is facing further staff reductions in 2015 that will result in the loss of some of our more senior and experienced staff. We expect this reduction will have a significant impact on our compliance and enforcement program. The FY16-17 inspection planning effort will need to include a review of all programs for their sustainability and focus on the activities that provide the biggest environmental return for the investment.

Finally, we expect the 2015 staff reductions to allow us to backfill some critical positions. Any new staff hired will need training in the federal programs we implement and enforce. In the next year we foresee a significant need for additional EPA training in Air and RCRA to sustain a high quality compliance assessment field presence.

FY 14 Performed Actions and FTE breakout

There are nearly 25,000 individual facilities subject to air pollution, hazardous waste, toxic use reduction, underground storage tank or industrial wastewater regulations.

In FY14, BAW conducted inspections of approximately 850 individual facilities subject to Air Pollution, Hazardous Waste, Toxic Use Reduction/TRI or Industrial Wastewater regulations. At these facilities BAW conducted 1305 air, hazardous waste, toxic use reduction/TRI, or industrial wastewater media related inspections. Some of these inspections were "single media" and others were "multi-media". The inspector checks all of the regulatory programs to which the facility is subject during a multi-media inspection. Since the last SRF BAW became responsible for implementation of the Underground Storage Tank (UST) Program. There were 184 UST inspections FY14 mostly performed by the same staff as the traditional single or multi-media BWP program inspections.

In FY14, BAW had 29 FTEs assigned to air pollution, hazardous waste, toxic use reduction, industrial wastewater and UST compliance and enforcement in our four regional offices. In addition to the regional component of the Compliance & Enforcement program, BAW's Boston staff (5 FTEs) reviewed approximately 9,000 reports submitted by regulated entities regarding compliance and/or emissions from air, industrial wastewater, hazardous waste, and toxics use reduction as well as process facility registration for upwards of 11,000 UST facilities (active and closed).

Data System Architecture/Reporting

In 2009, and again in 2011 there were issues with electronic reporting nodes that link MassDEP's and EPA's data systems, so that the data contained in EPA's data systems was frequently out of date. Since then, work has proceeded attempting to resolve these issues (with varying degrees of success), and to ensure that the Massachusetts data flows into EPA's data systems more smoothly.

A significant amount of effort since 2011 has resulted in improved data flows for RCRA and Air. One of the most significant improvements however, can be traced to changes in the way the EPA systems recognize Massachusetts ACMS. In 2013, EPA modified the SRF data query to match the query with state ACMS schedule. This corrected a major problem that was caused when trying to compare the state ACMS to the national "default" inspection frequency with the result being numbers that indicated a failure of the state to fulfill its compliance inspection commitments. For FY14 as with previous years, MassDEP has met the targets established in the annual Performance Partnership Agreement under the ACMS and now the SRF Query in EPA's ECHO system reflects this accomplishment.

STATE REVIEW FRAMEWORK

US EPA Region 1 Direct Implementation of NPDES in the State of Massachusetts

Clean Water Act Implementation in Federal Fiscal Year 2014

> U.S. Environmental Protection Agency Headquarters, Washington, D.C.

> > Final Report August 22, 2016

Executive Summary

Introduction

EPA Headquarters enforcement staff conducted a State Review Framework (SRF) enforcement program oversight review of the EPA Region 1 NPDES program for the State of Massachusetts. The period under review was FY2014.

EPA bases SRF findings on data and file review metrics, and conversations with program management and staff. EPA will track recommended actions from the review in the SRF Tracker and publish reports and recommendations on EPA's ECHO web site.

Summary

Region 1 directly implements the NPDES program in Massachusetts which has a significant universe of NPDES sources. Region 1 has piloted innovative approaches to automating the response to non-reporting violations at the more than 1000 permittees that submit Discharge Monitoring Reports.

Inspections and Violation Identification

MassDEP conducts about as many inspections as Region 1, which, combined with regional efforts, exceeded NPDES Compliance Monitoring Strategy (CMS) inspection coverage goals for NPDES majors and non-majors with individual permits. However, the state does not routinely provide the necessary information – i.e., inspection reports -- from these inspections to Region 1. The region requested and received inspection reports from MassDEP for SRF review purposes. These were generally incomplete and not sufficient to make compliance determinations. This issue is the primary cause of the identified Areas for Regional Improvement in three areas in this and previous SRF reviews: data (Element 1), inspection quality (Element 2) and, violation identification (Element 3).

Also, many sectors, such as wet-weather, CAFOs, and industrial dischargers, received fewer inspections than called for in the CMS.

Enforcement

Review of 35 facility files showed 51% percent of violations that did not receive an enforcement response. About 35% were majors in SNC or non-majors with Category 1 violations. However, the vast majority of the unaddressed violations were concentrated at just three of the 35 facilities reviewed.

While overall trends in facilities in SNC and Category 1 noncompliance appears to be declining, it is still above the national average and the level of enforcement activity in response to violations at non-majors is very low.

Recommendations

These issues are complex and longstanding. The region will develop a long-term improvement plan and OECA monitor progress in these areas through regular meetings, and review of data and files.

Areas of Strong Performance

- Region 1 has committed to lead in implementation of electronic reporting through NetDMR. Currently, over 85% of Massachusetts NPDES facilities are using NetDMR.
 Approximately 400 facilities subject to the Multi-sector General Permit are now reporting through NetDMR.
- Region 1 has moved to electronic file rooms for NPDES permit reports, enforcement reports, and enforcement documents such as inspection reports, internal correspondence and official actions. This streamlines FOIA and discovery responses, facilitates sharing of files between technical and legal staff and allowed Region 1 to provide several hundred documents to the SRF reviewers electronically through Sharepoint.
- In FY14, Region 1 negotiated ten administrative consent orders in Massachusetts, primarily to municipalities in support of the national municipal strategy. These municipal orders together required over \$100 million in injunctive relief. In FY14, the region filed three construction stormwater cases in Massachusetts and referred two industrial stormwater cases for judicial action against facilities in Massachusetts.
- According to data metrics compiled from ICIS, Region 1 is entering permit limit and DMR data.
- The program met or exceeded most of its inspection coverage commitments.
- Enforcement responses generally are expected to return sources in violation back to compliance.
- Region 1 is generally documenting penalty calculations, changes and collections.

Priority Issues to Address

The following are the top-priority issues affecting the Region's program performance:

- Region 1 does not generally take appropriate enforcement actions, particularly for nonreporting violations. A majority of the unaddressed SNC occurred at a small number of facilities with numerous violations.
- Region 1 does not generally take timely enforcement.
- The state of Massachusetts conducts inspections to meet coverage goals, but generally
 does not provide inspection documentation to the region. Inspection reports reviewed
 lacked documentation to assess inspection quality or to support compliance
 determinations
- Compliance Monitoring Strategy (CMS) commitments for storm water inspections are significantly lower than the CMS goals.

Most Significant SRF CWA-NPDES Program Issues¹

- Region 1 does not generally take timely or appropriate enforcement actions on NPDES violations, particularly non-reporting.
- The state generally does not provide inspection documentation to the region. State inspection reports reviewed lacked documentation to assess inspection quality or to support compliance determinations.
- Compliance Monitoring Strategy (CMS) commitments made by Region 1 for storm water inspections are less than CMS goals.

¹ EPA's "National Strategy for Improving Oversight of State Enforcement Performance" identifies the following as significant recurrent issues: "Widespread and persistent data inaccuracy and incompleteness, which make it hard to identify when serious problems exist or to track state actions; routine failure of states to identify and report significant noncompliance; routine failure of states to take timely or appropriate enforcement actions to return violating facilities to compliance, potentially allowing pollution to continue unabated; failure of states to take appropriate penalty actions, which results in ineffective deterrence for noncompliance and an unlevel playing field for companies that do comply; use of enforcement orders to circumvent standards or to extend permits without appropriate notice and comment; and failure to inspect and enforce in some regulated sectors."

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I. CWA-NPDES Integrated SRF and PQR Review

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[This section will be updated upon completion of the 2015 Permit Quality Review report]

II. CWA-NPDES Permit Quality Review

11. CVA-III DESTEIMIT Quanty Review
[This section will be updated upon completion of the 2015 Permit Quality Review report]

III. Background on the State Review Framework

The State Review Framework (SRF) is designed to ensure that EPA conducts nationally consistent oversight. It reviews the following local, state, and EPA compliance and enforcement programs:

- Clean Water Act National Pollutant Discharge Elimination System
- Clean Air Act Stationary Sources (Title V)
- Resource Conservation and Recovery Act Subtitle C

Reviews cover:

- **Data** completeness, accuracy, and timeliness of data entry into national data systems
- **Inspections** meeting inspection and coverage commitments, inspection report quality, and report timeliness
- **Violations** identification of violations, determination of significant noncompliance (SNC) for the CWA and RCRA programs and high priority violators (HPV) for the CAA program, and accuracy of compliance determinations
- **Enforcement** timeliness and appropriateness, returning facilities to compliance
- **Penalties** calculation including gravity and economic benefit components, assessment, and collection

EPA conducts SRF reviews in three phases:

- Analyzing information from the national data systems in the form of data metrics
- Reviewing facility files and compiling file metrics
- Development of findings and recommendations

EPA builds consultation into the SRF to ensure that EPA and the state or implementing region understand the causes of issues and agree, to the degree possible, on actions needed to address them. SRF reports capture the agreements developed during the review process in order to facilitate program improvements. EPA also uses the information in the reports to develop a better understanding of enforcement and compliance nationwide, and to identify issues that require a national response.

Reports provide factual information. They do not include determinations of overall program adequacy, nor are they used to compare or rank state programs.

EPA reviews e NPDES programs once every five years. The first round of SRF reviews began in FY 2004. The third round of reviews began in FY 2013 and will continue through FY 2017.

The Region 1 and state relationship on enforcement under the Clean Water Act NPDES program

The Massachusetts Department of Environmental Protection (MassDEP) is not authorized to implement the Clean Water Act NPDES program and, as a result, Region 1 has Direct Implementation (DI) authority for the NPDES program in Massachusetts. MassDEP, however, has state authority over surface water discharges that parallel the Federal authorities. MassDEP conducts water, municipal and wet weather inspections and takes water enforcement actions under state authorities. Region 1 enters Massachusetts state inspection data into ICIS-NPDES when MassDEP provides the Region with its inspection reports (3560 forms). The EPA-MassDEP Performance Partnership Agreement (PPA) does not contain any specific numerical water inspection or enforcement targets, though it does require the state to submit an inspection plan to Region 1.

Regional organizational structure and responsibilities

The NPDES responsibilities are handled by four offices within EPA's Region 1. Permits are issued by the Office of Environmental Protection (OEP) with legal support from the Office of Regional Counsel. The Office of Environmental Stewardship (OES) handles inspections with some support from OEP for pre-treatment inspections and from the Office of Environmental Measurement and Evaluation (OEME) for sampling and other inspections. OES employs both technical and legal experts, who develop and settle enforcement cases. OES data staff code Massachusetts permits into ICIS-NPDES and enter Massachusetts discharge monitoring report data, enforcement milestones, and report receipt dates.

IV. SRF Review Process

Review period: FY2014

Key dates:

- Data Metric Analysis (DMA) and File Selection list sent to the region:
 - o CWA: April 9, 2015 (DMA); April 21, 2015 (File Selection).
 - o CWA: April 9, 2015 (Metric 4a Table)
- Remote file review conducted
 - o CWA: April 24, 2015 June 30, 2015
- Technical Draft Report sent to region
 - o CWA: August 25, 2015
- Official Draft
 - o CWA: March 25, 2016
- Report finalized
 - o CWA: August 22, 2016

State and EPA key contacts for review:

- Denny Dart: Region 1 Chief, Water Technical Enforcement Unit
- Lucy Casella: Region 1 Coordinator
- Elizabeth Walsh: SRF Reviewer
- Martha Segall: SRF Reviewer
- Michael Mason: SRF Reviewer
- Cassandra Rice: SRF Reviewer
- Jonathan Pettit: SRF Reviewer

V. SRF Findings

Findings represent EPA's conclusions regarding state performance and are based on findings made during the data and/or file reviews and may also be informed by:

- Annual data metric reviews conducted since the state's last SRF review
- Follow-up conversations with state agency personnel
- Review of previous SRF reports, Memoranda of Agreement, or other data sources
- Additional information collected to determine an issue's severity and root causes

There are three categories of findings:

Meets or Exceeds Expectations: The SRF was established to define a base level or floor for enforcement program performance. This rating describes a situation where the base level is met and no performance deficiency is identified, or a state performs above national program expectations.

Area for State Attention: An activity, process, or policy that one or more SRF metrics show as a minor problem. Where appropriate, the state or implementing region should correct the issue without additional oversight. EPA reviewers may make recommendations to improve performance, but it will not monitor these recommendations for completion between SRF reviews. These areas are not highlighted as significant in an executive summary.

Area for State Improvement: An activity, process, or policy that one or more SRF metrics show as a significant problem that the agency is required to address. Recommendations should address root causes. These recommendations must have well-defined timelines and milestones for completion, and the EPA reviewers will monitor them for completion between SRF reviews in the SRF Tracker.

Whenever a metric indicates a major performance issue, the EPA reviewers will write up a finding of Area for State Improvement, regardless of other metric values pertaining to a particular element.

The relevant SRF metrics are listed within each finding. The following information is provided for each metric:

- **Metric ID Number and Description:** The metric's SRF identification number and a description of what the metric measures.
- **Natl Goal:** The national goal, if applicable, of the metric, or the CMS commitment that the state has made.
- Natl Avg: The national average across all states, territories, and the District of Columbia.
- **State N:** For metrics expressed as percentages, the numerator.
- **State D:** The denominator.
- State % or #: The percentage, or if the metric is expressed as a whole number, the count.

Clean Water Act Findings

CWA Element 1 —	CWA Element 1 — Data							
Finding 1-1	Meets or Exceeds Expectations							
Summary	According to data metrics results compiled from ICIS, Region 1 is entering permit limits and DMR data in almost all cases.							
Explanation	limits entered into ICIS (93%). Metric 1b2 calculates the percentage of monitoring results for wastewater require Elimination System (NPDES) permits.	Metric 1b1, of the 122 major facilities in Massachusetts, 113 had permit limits entered into ICIS (93%). Metric 1b2 calculates the percentage of facilities that report timely self-monitoring results for wastewater required by National Pollutant Discharge Elimination System (NPDES) permits. Of the 3,283 facilities self-reporting, only 11 did not do so in a timely manner.						
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	Region N	Region D	Region % or #		
	1b1 Permit limit rate for major facilities	>=95%	69%	113	122	93%		
	1b2 DMR entry rate for major facilities	>=95%	99%	3272	3283	99%		
Regional response								
Recommendation								

CWA Element 1 —	Data								
Finding 1-2	Area for Regional Improvement	Area for Regional Improvement							
Summary	Region 1 is not consistently entering complete inspection data into ICIS-NPDES.								
Explanation	Because R1's CMS commitments are met through a combination of EPA and state inspections, we evaluated the accuracy of the data in ICIS regarding both. During the review of the facility files, of the 35 files reviewed, 19 had all minimum data requirements (MDRs) accurately reflected in ICIS. Of the 15 files that did not have information accurately reported in ICIS, OECA reviewers found 8 (24%) inspection reports where the state conducted inspections but the inspection reports were incomplete or not provided to the region for data entry. All inspections completed by Region 1 accurately identified SEVs and SNC and the information was accurately entered into ICIS. Missing or inaccurate data was associated with state inspections. The NPDES Enforcement Management System (EMS) Chapter 5, section A states "an inspection report is complete when it contains all the inspector's observations, the analytical results, a completed form 3560-3, and evidence of peer/management review and signature of reviewer." In 7 (21%) other instances, there were minor inconsistences found in the inspection reports in the enforcement files. These included discrepancies in the facility description information such as the lack of an address,								
	latitude/longitude, dates, etc.								
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg		Region D	Region % or #			
	2b Files reviewed where data are accurately reflected in the national data system	100%		19	35	54%			
Regional response									
Recommendation	Same as recommendation 2-2.								

CWA Element 2 —	- Inspections
Finding 2-1	Area for Regional Attention
Summary	The combined regional and state inspections met or exceeded its inspection coverage commitment in the Massachusetts CMS plan for major NPDES facilities and non-majors with individual permits. However MS4, inspection coverage did not meet CMS commitments.
Explanation	Major and non-major individual permittees:
	Agencies are required to inspect 100% of their major permittees every two years and 100% of their non-major individual permittees every five years.
	Combined, Region 1 and MassDEP inspected 163% of major NPDES facilities (5a1). They also completed 160% of NPDES non-majors with individual permits. (5b1). The combined total of EPA and state inspections for traditional permittees significantly exceeded commitments and CMS goals.
	Other NPDES universes:
	OECA notes that Region 1 CMS commitments to conduct audits or inspections for certain universes were lower than goals established by the CMS policy. However, SRF evaluates performance against CMS commitments so the calculations below are based on regional commitments rather than CMS goals.
	The Region committed to two and completed 4 SSO audits in Massachusetts.
	The Region committed to 15 construction stormwater Phase I inspections and conducted 17. The NPDES CMS has a goal for annual inspections of 10% of the Phase I and 5% for of the Phase II Construction Site universe. In FY 2014, Region 1 committed to inspect less than 1%. The Region committed to completing 12 MS4 inspections and completed seven. (The reviewers did not include MS4 Recon inspections in the count.)
	Region 1 committed to 12 industrial stormwater inspections and completed 15 in FY14.

Relevant metrics	Metric ID Number and Description		Natl Avg	Region N	Region D	Region % or #
	4a1 Pretreatment compliance inspections and audits	100% of CMS		1	0	-
	4a2 Significant Industrial User inspections for SIUs discharging to non-authorized POTWs	100% of CMS		3	0	
	4a4 Major CSO inspections	100% of CMS		1	0	-
	4a5 SSO inspections	100% of CMS		4	2	200%
	4a7 Phase I & II MS4 audits or inspections	100% of CMS		7	12	58%
	4a8 Industrial stormwater inspections	100% of CMS		15	12	125%
	4a9 Phase I and II stormwater construction inspections	100% of CMS		15	15	100%
	4a10 Medium and large NPDES CAFO inspections	100% of CMS		0	0	-
	5a1 Inspection coverage of NPDES majors	100% of CMS		72	44	163%
	5b1 Inspection coverage of NPDES non-majors with individual permits	100% of CMS		37	23	160%
	5b2 Inspection coverage of NPDES non-majors with general permits	100% of CMS		6	0	
Regional response	Because of limited resources, Region 1 is We are considering the Region 6 approach Audits to review MS4 compliance.				_	
Recommendation						

CWA Element 2 —	- Inspections
Finding 2-2	Area for Regional Improvement
Summary	Reports from inspections completed by the region were generally sufficient to make a compliance determination. The region does not routinely receive state inspection reports from the state but obtained them for the purposes of this SRF review. The state inspection reports reviewed were lacking documentation to support compliance determinations and were not completed in a timely manner.
Explanation	Region 1 develops its CMS based on a combination of EPA and state inspections. MassDEP conducts a nearly half (46%) of the inspections in the state. Region 1 does not routinely receive inspection reports from the state but obtained them for the purposes of this SRF review
	Thirteen of the 23 (57%) inspection reports completed generally provided sufficient documentation to make a compliance determination at the facility. These were generally regional inspections. In the 10 instances where the state completed the inspection, reviewers found that generally there was an incomplete or missing 3560 inspection form, no checklists, and/or little or no narrative of observations during the inspection (see The <i>NPDES Enforcement Management System (EMS)</i> Chapter 5, section A citation in Finding 1-2) and in 2 instances, no state inspection report was provided to the Region.
	Only 65% of the inspection reports were completed within the prescribed timeframe. The national goal is 100%. On average, inspection reports took 66 days to complete. Three inspections reports took over 100 days to complete. The NPDES Enforcement Management System (EMS) recommends completion of inspection reports within 30-days of for non-sampling inspections.
	Where inspections conducted by MassDEP are used to fulfill CMS commitments, Region 1 must ensure that they are conducted according to EPA NPDES Inspection Manual guidelines, and that inspection reports from those inspections are timely, complete and sufficient to determine compliance.

Relevant metrics	Metric ID Number and Description Natl Natl Region/ Region/ Region/ State State State N D % or #								
	6a Inspection reports complete and sufficient to determine compliance at the facility 100% 13 23 57%								
	6b Inspection reports completed within prescribed timeframe 100% 15 23 65%								
Regional response	Region 1 is working with Massachusetts to address the concerns.								
Recommendation	 NOTE: This recommendation addresses findings 1-2, 2-2, and 3-1. 1. By September 30, 2016, Region 1 will submit to OECA for review a plan, negotiated with the State of Massachusetts, for improving the timeliness and completeness of inspection reports from inspections used to meet CMS commitments, and violation identification and data entry associated with those inspections. The plan will include: Process for annual coordination between Massachusetts and Region 1 to identify CMS inspections. Expectations for inspection report completeness, timely completion, and timely transmission to Region 1. The process for timely review of state inspection reports by Region 1, making compliance determinations, coordination with the state on enforcement, and entry of relevant inspection, violation and state enforcement data. Steps the Region will take if unable to reach agreement with the state to provide timely and complete inspection reports. 2. OECA will continue to monitor progress toward the completion of the plan. Monitoring frequency will be established based on key milestones established in the plan. 								

CWA Element 3 —	Violations							
Finding 3-1	Area for Regional Improvement							
Summary	Approximately one-quarter of inspection reports do not necessarily lead to accurate compliance determinations.							
	Region 1 is not accurately identifying SEVs as SNC.							
Explanation	Massachusetts is above the national average for major facilities with DMR violations as noted by metric 7d1. The SNC rate in Massachusetts appears to be on par with the national average (31% vs 34%). OECA reviewers found 6 instances (out of 23 files) in state inspection reports where there was insufficient detail to determine whether a compliance determination was made. During the review, OECA found 3 instances out of 5 files reviewed where SEV were not accurately identified as SNC. Only one of seven files reviewed contained information in ICIS that identified single event violations (SEVs) as SNC that was reported timely at major facilities. Regional offices are required to report SEVs as indicated in the <i>Single Event Violations - Data Entry Requirements Memo to EPA Regions</i> (October 15, 2008). In previous SRF reviews, it was noted that the region was not receiving the							
	information from the state on completed information could be appropriately entered				equirec	1		
Relevant metrics	Metric ID Number and Description	Natl Goal		Region N	Region D	Region % or #		
	7d1 Major facilities in noncompliance	N/A	71%	104	122	85%		
	7e Inspection reports reviewed that led to an accurate compliance determination	100%		17	23	74%		
	8a2 Percentage of major facilities in SNC	N/A	34%	39	127	31%		
	8b Single-event violations accurately identified as SNC or non-SNC	100%		2	5	40%		
	8c Percentage of SEVs identified as SNC reported timely at major facilities	100%		1	7	14%		
Regional response	Region 1 has been deploying data staff in rather than entry of single event violation	_						

	attention to SEV entry in FY17 once we permittees reporting electronically.	nattention to SEV entry in FY17 once we have the majority of our permittees reporting electronically.							
Recommendation	Same as recommendation 2-2.								
CWA Element 4 —	- Enforcement								
Finding 4-1	Meets or Exceeds Expectations								
Summary	Enforcement responses generally are expected to return sources in violation back to compliance.								
Explanation	Metric 9a evaluates the percentage of en the facility to return to compliance. Of the reviewed under this metric, 13 met these	he 14 en	forcen	nent ac	-	omote			
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	Region N	Region D	Region % or #			
	9a Percentage of enforcement responses that return or will return source in violation to compliance	100%		13	14	93%			
Regional response									
Recommendation									

CWA Element 4 —	- Enforcement								
Finding 4-2	Area for Regional Improvement								
Summary	Region 1 did not respond with appropriate enforcement to a significant proportion of violations. Region 1 does not generally take appropriate enforcement actions, particularly for non-reporting violations.								
Explanation	Metric 10a1 is a data metric that measures the timeliness of enforcement responses at major facilities with SNC. This metric shows that Region 1 took timely enforcement at only 4 of 18 major facilities with SNC violations.								
	Metric 10b is a file metric that evaluates whether appropriate enforcement action was taken in response to violations. The 35 facility files reviewed contained 84 violations. Region 1 did not take appropriate enforcement action in response to 31 (37%) of these violations.								
	A significant percentage of the unaddressed violations were reporting violations. The region has been testing an automated response to late reporting which may reduce the number of reporting violations in the future. OECA will monitor the results of this effort.								
	The majority of unaddressed violations or ongoing effluent violations. Since the dat has issued an Administrative Order to this outstanding violations.	e of the	on-si	te revie	w, the				
	Also since the on-site review, the region a resources to focus on DMR violations in o	_			_				
	According to ECHO data, about 31% of majors and 35% of non-majors were in SNC/Category 1 in 2014, about 10 and 15 percent above the national average, respectively. These percentages have been declining each of the last three years.								
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	Region N	Region D	Region % or #			
	10a1 Major facilities with timely action	>=98%		3	17	18%			
	10b Enforcement responses reviewed that address violations in an appropriate manner	100%		31	84	37%			

Regional response	One of the three facilities with multiple violations had received orders in 2008 and 2009. This facility was referred to Department of Justice in 2013 and the case had not yet settled in 2014. Another facility is a small school with copper violations of a permit limit 1000 times more stringent than the drinking water maximum contaminant level. The state is considering a site specific water quality standard for the stream near the school. Because of limited staff resources, Region 1 must regularly triage the facilities in violation, taking action on the worst cases first. To address non-reporting violations, Region 1 has been testing automated communication approaches that will require less staff time.						
Recommendation	Region 1 will continue to implement the automated communication approaches to reduce non-reporting violations.						
	At six months and one year from the finalization of this report, OECA will review Region 1 enforcement responses to determine if violations are being addressed with appropriate enforcement. If so, this recommendation will be considered complete.						
CWA Element 5 —	Penalties						
Finding 5-1	Meets or Exceeds Expectations						
Summary	Region 1 is documenting penalty calcula	tions, cl	nange	es and o	collecti	ons.	
Explanation	The region is documenting essential info penalties. Of the 3 penalties reviewed, the showing payment and a rationale for redu where applicable.	e region	n had	docum	entatio		
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	Region N	Region D	Region % or #	
	12a Documentation of the difference between initial and final penalty and rationale	100%		2	2	100%	
	12b Penalties collected	100%		3	3	100%	
Regional response							
Recommendation							

CWA Element 5 — Penalties								
Finding 5-2	Area for Regional Attention							
Summary	Region 1 is generally documenting gravity and economic benefit calculations.							
Explanation	Region 1 is generally documenting gravity and economic benefit calculations. In one instance the file reviewed did not contain information that economic benefit was considered in the penalty.							
Relevant metrics	Metric ID Number and Description	Natl Goal	Natl Avg	Region N	Region D	Region % or #		
	11a Penalty calculations reviewed that consider and include gravity and economic benefit	100%		3	4	75%		
Regional response	The case which did not include gravity a was an expedited settlement for a constr team used the penalty form approved by use.	uction	stormw	ater ca	se. Th	e case		
Recommendation								