CAL EPA - STATES' COMMON MEASURES PROJECT

Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	California	GROUP			Would do	X Most Interested	
Easier to	Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Conside	ration	Co	mplexity of	Metrics			
Single Me	edia		X		Multi Media		
Regulator	y or Good Practices Only	X			Both Regulatory and	Good Practices	
Few requi	rements			X	Many Requirements		
Clear Cut	Requirements	X			Subjective Requirem	ients	
		Cor	mplexity of	Sector			
Similar Fa	acilities			X	Diverse Facilities		
Small Uni	verse			X	Large Universe		
		Prior E	xperience V	Vith Sector	r		
Existing S	ector	X			New Sector		
Existing I	Data System	X			No Data System		
Existing C	Common Definitions	X			No Common Definit	ions	
Known U	niverse	X			Unknown Universe		
Existing C	Checklists	X			No Checklists		
Historical	Data	X			No Historical Data		
Similar re	quirements across states		Х		Dissimilar requireme	ents across states	
		Oth	er Conside	rations			
More De	sirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distr states	ibution of facilities across		Х		Uneven distribution states	of facilities across	
Important	environmental concern		Х		Lesser environmenta	l concern	
Regulated	by the states and EPA		Х		State only sector		
Ability to outcome	link to an environmental			X	Inability to link to an outcome	environmental	
	are sophisticated about ental regulation	Х			Facilities are unsoph environmental regula		
No langua	ge barriers		Х		Language barriers		
Other (list	:)						

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of 1

STATE	California			GRO	OUP	Any					
#	Indicator Description	Regulato	egulatory Compliance								
	Data Source	Existing	g data	systems	5						
Data Qu	good	Okay	Prob- lem	Issue	::						
Precision			Х								
Sensitivit	у	Х									
Represen	tativeness	Х									
Complete	eness	Х									
Bias		Х									
Validatio		Х									
Other issued	ue:										

#	Indicator Description	TBD	BD						
	Data Source								
Data Quality Indicator		good	Okay	Prob- lem	Issue:				
Precision									
Ser	Sensitivity								
Rej	presentativeness								
Co	mpleteness								
Bias									
Va	lidation								
Otł	ner issue:								

Colorado - STATES' COMMON MEASURES PROJECT Groups and Indicators Packet:

STATE	Colorado	GROUP	Small Qua	ntity Generat	ors	Would do	_x_ Most Interested	
Easier to	Collect Good D	ata	Easier	Somewhat difficult	More difficult	More Difficult to	Collect Good Data	
Conside	ration		Co	mplexity of	Metrics			
Single Me	edia		х			Multi Media		
Regulator	y or Good Practice	es Only	Х			Both Regulatory and	I Good Practices	
Few requi	irements			х		Many Requirements		
Clear Cut	Requirements			х		Subjective Requirem	nents	
			Сог	nplexity of	Sector			
Similar Fa	acilities				х	Diverse Facilities		
Small Uni	iverse				х	Large Universe		
			Prior E	xperience V	Vith Sector	r		
Existing S	Sector		х			New Sector		
Existing I	Data System		Х			No Data System		
Existing C	Common Definition	ns		х		No Common Definit	ions	
Known U	niverse		х			Unknown Universe		
Existing C	Checklists		х			No Checklists		
Historical	Data		х			No Historical Data		
Similar re	equirements across	states		х		Dissimilar requireme	ents across states	
			Oth	er Conside	rations			
More De	sirable/Easier S	ector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distr states	ribution of facilitie	s across		x		Uneven distribution states	of facilities across	
Important	environmental co	ncern		Х		Lesser environmenta	ıl concern	
Regulated	by the states and	EPA	Х			State only sector		
Ability to link to an environmental outcome					x	Inability to link to an outcome	1 environmental	
	are sophisticated a ental regulation	bout		x		Facilities are unsoph environmental regula		
No langua	age barriers			х		Language barriers		
Other (list	t:)							

GROUP EVALUATION CHART:

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet: INDICATOR CHARTS**

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ST	ATE	Colorado				GROUP	Hazardous Waste Small Quantity Generators
#	1	Indicator Description	Facility	did not	exceed	the timeline	ess thresholds for hazardous waste storage
Data Source New inspection results or historic data							
Da	Data Quality Indicator		r good	Okay	Prob- lem	Issue:	
Precision		х			Non-com allowed.	pliance threshold is clearly defined. No lapses are	
Sei	Sensitivity		X			No issues	due to yes/no answers.
Re	Representativeness		x			useful bu	new data. There is lots of historical data that could be t has the potential for variation because the SQGs were pections due geographic areas, sector work, or ts.
Co	mplet	eness	X			Easy to g	ather complete information for every inspection
Bia	Bias		х			Should be inspection	e okay, provided proper training is given, if new ns.
Va	lidati	on					
Ot	her iss	sue:					

#	2 Indicator Description	Facility of	Facility did not exceed the quantity thresholds for hazardous waste storage.						
Data Source Inspection results on file and/or new data									
Data	a Quality Indicato	r good	Okay	Prob- lem	Issue:				
Preci	ision	X			Same as #1				
Sens	itivity	X			Same as #1				
Repr	resentativeness	X			Same as #1				
Com	pleteness	X			Same as #1				
Bias		X			Same as #1				
Validation									
Othe	er issue:								

Groups and Indicators Packet

INDICATOR CHARTS cont. page 2 of 6

ST	ATE	Colorado				GROUP	Hazardous Waste Small Quantity Generators
#	3	Indicator Description					waste manifests and land disposal restriction paperwork ent and disposal of all hazardous waste.
		Data Source					
Da	ıta Qı	ality Indicator	r good	Okay	Prob- lem	Issue:	
Precision			х		What if trash?	something minor like HW rags are being thrown into	
Sensitivity			Х			Same as	indicator #1
Representativeness		Х			Same as	indicator #1	
Co	mplet	eness	Х			Same as indicator #1	
Bia	as		Х			Same as	indicator #1
Va	lidati	on					
Other issue:					shipping necessa for ALI obvious the trash proper o	PI would be to assess the overall performance of proper g, disposal, and record keeping. However it will not rily be an assessment of performance for proper disposal hazardous wastes. A facility could be manifesting the HW off site but might be throwing HW solvent rags in n or illegally evaporating solvent. Colorado added a lisposal EBPI to help further assess the performance of lisposal. See #10.	

#	4	Indicator Description	All haza	All hazardous waste containers are properly labeled							
		Data Source	Same as	indicat	or #1						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:					
Precision		Х			Provided noncompliance threshold is clearly defined (e.g. ANY barrel with no label, or any barrel with a label that is incomplete or falling off)						
Sei	nsitiv	vity	Χ			Same as indicator #1					
Re	prese	entativeness	Х			Same as indicator #1					
Co	mple	eteness	Х			Same as indicator #1					
Bias		X			Same as indicator #1						
Validation											
Otl	her is	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR CHARTS cont. page 3 of 6

#	5	Indicator Description	All haza	All hazardous waste containers are in good condition							
		Data Source	Same as	indicat	or #1						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:					
Precision			х		Same as indicator 4, also "good condition" can be somewhat subjective-Colorado goes by no leaking, little rust, and no bulging.						
Sei	nsiti	vity	х			Same as indicator #1					
Re	pres	entativeness	х			Same as indicator #1					
Co	ompl	eteness	х			Same as indicator #1					
Bias		х			Same as indicator #1						
Validation											
Ot	her i	ssue:									

ST	ATE	Colorado				GROUP	Small Quantity Generators	
#	6	Indicator Description	All haza	rdous w	vaste co	ntainers ar	e kept closed except when being filled.	
		Data Source	Same as	indicat	or #1			
Da	Data Quality Indicator		r good	Okay	Prob- lem	Issue:		
Pre	Precision			х		Should be assessed as a snap funnel or secured closed lid= i.e. if the container were knocked over would the contents out.		
Sei	nsitivi	ity	х			Same as indicator #1		
Re	prese	ntativeness	X			Same as	s indicator #1	
Co	mplet	eness	X			Same as	s indicator #1	
Bia	as		X			Same as	s indicator #1	
Va	Validation							
Ot	Other issue:					potentia	o uses this as an EBPI because it is a spill threat causing l harm to the environment for air, ground, and water. s an air and HW violation if solvent is evaporating.	

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR CHARTS cont. page 4 of 6

ST	ATE	Colorado				GROUP	Small Quantity Generators
#	7	Indicator Description	All haza	rdous w	vaste co	ntainers ar	e inspected weekly checking for leaks or deterioration.
Data Source Same as indicator #1							
Da	Data Quality Indicator		r good	Okay	Prob- lem	Issue:	
Precision			х		suppose	uld be checking to see if the facility knows they are d to do this. Could be subjective. (i.e. is being in the om once per week conducting the inspection?)	
Sensitivity		X			Same as	s indicator #1	
Re	prese	ntativeness	X			Same as	s indicator #1
Co	mplet	eness	X			Same as	s indicator #1
Bia	as		X			Same as	s indicator #1
Va	lidati	on					
Ot	Other issue:					because inspecti training	e this is a great EBPI but it is a big penalty for Colorado we can assess a 1-day penalty for each weekly on missed for the last 2 years. It would be a good tool for the facilities to have this type of question on f-audit if we include it as a data indicator.

#	8	Indicator Description	.i.e. HW	The facility operates in a way that minimizes the potential for releases of hazardous wastes. i.e. HW containers are stored on a crack free surface that will contain leaks or spills and there is no evidence of significant releases outside the building.							
	Data Source Same as Indicator 1										
Data Quality Indicator good Okay Prob- lem					Prob- lem	Issue:					
Pre	Precision			x		"Crack free and stains" might be a subjective (i.e. many floors could be OK but not spotless or crack free).					
Sei	nsiti	vity	Х			Same as indicator #1					
Re	pres	sentativeness	х			Same as indicator #1					
Co	mpl	eteness	х			Same as indicator #1					
Bia	Bias		Х			Same as indicator #1					
Validation											
Ot	her i	issue:									

Groups and Indicators Packet

INDICATOR CHARTS cont. page 5 of 6

#	9		dicator cription		The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers.						
		Data	Source	Same as	indicat	or #1					
Da	Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Pre	Precision			х			Provided compliance threshold is clear (e.g. must meet all)				
Se	Sensitivity				X		Need to clarify whether inspector must verify accuracy of posted info				
Re	epre	sentative	ness	х			Same as indicator #1				
Co	omp	leteness		х			Same as indicator #1				
Bi	as			х			Same as indicator #1				
Va	alida	ation									
Ot	Other issue:						On our last survey Colorado separated out the ID of an EC and the postings. Could be done together but would be all or nothing.				

#	10	Indicator Description	that haza	The facility has properly disposed of all it's hazardous wastes. i.e. There is no evidence that hazardous waste has been disposed of in the trash, down the storm or sanitary sewer, or on the ground.							
		Data Source									
Da	Data Quality Indicator			Okay	Prob- lem	Issue:					
Pre	Precision			Х		None					
Sei	Sensitivity			Х		Could be minor like solvent rags going into the trash, or major like liquid solvent on the ground. Might be hard to evaluate in the sense of a major or minor threat.					
Re	prese	ntativeness	Х			Same as indicator #1					
Co	mple	teness	х			Same as indicator #1					
Bia	Bias					Same as indicator #1					
Va	Validation										
Ot	her is	sue:									

Groups and Indicators Packet

INDICATOR CHARTS cont. page 6 of 6

#	11	Indicator Description		The facility has properly trained it's employees on the hazardous waste management requirements.							
		Data Source									
Da	nta Q	uality Indicator	good	Okay	Prob- lem	Issue:					
Pre	Precision			Х		None					
Sei	Sensitivity				Х	Hard to evaluate. Could be subjective.					
Re	prese	ntativeness	х			Same as indicator #1					
Co	mple	teness	х			Same as indicator #1					
Bia	as		х			Same as indicator #1					
Va	Validation										
Ot	Other issue:					Colorado added this because we are changing our rules to require documentation of training for SQGs.					

Colorado - STATES' COMMON MEASURES PROJECT Groups and Indicators Packet:

STATE	Colorado	GROUP	Auto Body	or Auto Rep	air	X Would do	Most Interested
Easier to	Collect Good D	ata	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data
Conside	ration		Co	mplexity of	Metrics		
Single Me	edia		Х			Multi Media	
Regulator	y or Good Practice	es Only	х			Both Regulatory and	Good Practices
Few requi	rements			х		Many Requirements	
Clear Cut	Requirements			х		Subjective Requirem	ents
			Cor	nplexity of	Sector		
Similar Fa	acilities				х	Diverse Facilities	
Small Uni	iverse				х	Large Universe	
			Prior E	xperience V	Vith Sector	r	
Existing S	Sector		Х			New Sector	
Existing I	Data System		Х			No Data System	
Existing C	Common Definition	ns		х		No Common Definit	ions
Known U	niverse		х			Unknown Universe	
Existing C	Checklists		Х			No Checklists	
Historical	Data		Х			No Historical Data	
Similar re	quirements across	states		х		Dissimilar requireme	ents across states
			Oth	er Conside	rations		
More De	sirable/Easier S	ector	Most desirable	Somewhat desirable	Less desirable	Less Desirable	e/Harder Sector
Even distr states	ribution of facilitie	s across		x		Uneven distribution states	of facilities across
Important	environmental co	ncern		Х		Lesser environmenta	l concern
Regulated	by the states and	EPA	Х			State only sector	
Ability to link to an environmental outcome				X		Inability to link to an outcome	environmental
Facilities are sophisticated about environmental regulation				x		Facilities are unsoph environmental regula	
No langua	age barriers			х		Language barriers	
Other (list	t:)						

GROUP EVALUATION CHART:

Groups and Indicators Packet:

INDICATOR CHARTS page 1 of 5

ST	ATE	Colorado			GF	ROUP	Auto Body or Auto Repair				
#	1	Indicator Description	Facility d	lid not e	exceed t	he time	liness thresholds for hazardous waste storage				
		Data Source	New insp	pection	results o	ults or historic data					
Da	ta Qu	ality Indicator	good	Okay	Prob -lem	Issue					
Pre	ecision	n	х			Non-c allow	compliance threshold is clearly defined. No lapses are ed.				
Ser	nsitivi	ity	х			No iss	No issues due to yes/no answers.				
Rej	presei	ntativeness	X			useful only t	for new data. There is some historical data that could be but has a potential risk because the auto body shops were arget inspections due to geographical interests, sector work, nplaints.				
Co	mplet	eness	х			Easy	o gather complete information for every inspection				
Bia	ıs		х			Shoul inspec	d be okay, provided proper training is given, if new ctions.				
Val	lidatio	on									
Oth	ner iss	sue:									

#	2	Indicator Description	Facility of	Facility did not exceed the quantity thresholds for hazardous waste storage							
		Data Source	Inspectio	n result	s on file	and/or new data					
Da	ita Ç	Quality Indicator	good	Okay	Prob- lem	Issue:					
Pre	Precision					Same as #1					
Sei	nsiti	vity	X			Same as #1					
Re	pres	entativeness	X			Same as #1					
Co	mpl	eteness	Х			Same as #1					
Bias			Х			Same as #1					
Va	lidat	tion				Same as #1					

Groups and Indicators Packet

INDICATOR CHARTS cont. page 2 of 5

ST	ATE	Colorado			G	ROUP	Auto Body or Auto Repair				
#	3	Indicator Description		The facility maintained hazardous waste manifests that documented the proper shipment and disposal of all hazardous waste.							
Da	Data Source Data Quality Indicator			Okay	Prob- lem	Issue					
Precision			Х			Same	as indicator #1				
Se	nsitiv	ity	Х			Same	as indicator #1				
Re	Representativeness					Same	as indicator #1				
Co	mple	teness	Х			Same	as indicator #1				
Bi	as		Х			Same	as indicator #1				
Va	lidati	on									
Other issue:						shippi necess for Al obvio the tra prope	EBPI would be to assess the overall performance of proper ng, disposal, and record keeping. However it will not sarily be an assessment of performance for proper disposal LL hazardous wastes. A facility could be manifesting the us HW off site but might be throwing HW solvent rags in ash or illegally evaporating solvent. Colorado added a r disposal EBPI to help further assess the performance of r disposal. See #10.				

#	4	Indicator Description	All haza	All hazardous waste containers are properly labeled					
		Data Source	Same as	indicat	or #1				
Da	Data Quality Indicator			Okay	Prob- lem	Issue:			
Precision			Х			Provided noncompliance threshold is clearly defined (e.g. ANY barrel with no label, or any barrel with a label that is incomplete or falling off)			
Sei	nsitiv	vity	X			Same as indicator #1			
Re	prese	entativeness	X			Same as indicator #1			
Co	mple	eteness	Х			Same as indicator #1			
Bia	Bias					Same as indicator #1			
Va	Validation								
Ot	her is	ssue:							

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR CHARTS cont. page 3 of 5

#	5	Indicator Description	All haza	All hazardous waste containers are in good condition						
		Data Source	Same as	indicat	or #1					
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision			х		Same as indicator 4, also "good condition" can be somewhat subjective-we go by no leaking, little rust, and no bulging.				
Sei	nsiti	ivity	х			Same as indicator #1				
Re	pres	sentativeness	X			Same as indicator #1				
Co	ompl	leteness	х			Same as indicator #1				
Bia	Bias					Same as indicator #1				
Va	Validation									
Ot	her	issue:								

#	6	5	Indicator Description	All haza	All hazardous waste containers are kept closed except when being filled.					
			Data Source	Same as	indicat	or #1				
Da	ata (Qı	ality Indicato	good	Okay	Prob- lem	Issue:			
Pre	Precision				х		Should be assessed as a snap funnel or secured closed lid=closed, i.e. if the container were knocked over would the contents spill out.			
Se	nsit	tivi	ty	Х			Same as indicator #1			
Re	epres	esei	ntativeness	Х			Same as indicator #1			
Co	omp	olet	eness	Х			Same as indicator #1			
Bi	as			Х			Same as indicator #1			
Va	Validation									
Ot	Other issue:						Colorado uses this as an EBPI because it is a spill threat causing potential harm to the environment for air, ground, and water. Also it is an air and HW violation if solvent is evaporating.			

Groups and Indicators Packet INDICATOR CHARTS cont. page 4 of 5

#	7	,	Indicator Description	.i.e. are	The facility operates in a way that minimizes the potential for releases of hazardous wastes. i.e. are HW containers are stored on a crack free surface that will contain leaks or spills. There is no evidence of significant releases outside the building on the ground.						
			Data Source	Same as	Same as Indicator 1						
Da	Data Quality Indicator			r good	good Okay Prob- lem Issue:						
Pre	Precision			x			Crack free and stains" might be a subjective (i.e. many floors could be OK but not spotless or crack free).				
Sei	nsit	tivi	ity	х			Same as #1				
Re	pres	esei	ntativeness	х			Same as #1				
Co	mp	olet	teness	х			Same as #1				
Bia	Bias			х			Same as #1				
Va	Validation										
Ot	her	iss	sue:								

#	8	Indicator Description		The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers and evacuation routes							
		Data Source	Same as	indicat	or #1						
Da	nta Q	Quality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	ecisi	on	х			Provided compliance threshold is clear (e.g. must meet all)					
Sei	Sensitivity			х		Need to clarify whether inspector must verify accuracy of posted info					
Re	pres	entativeness	х			Same as indicator #1					
Co	mpl	eteness	х			Same as indicator #1					
Bia	as		х			Same as indicator #1					
Va	lidat	tion									
Ot	her i	ssue:				On our last survey Colorado separated out the ID of an EC and the postings. Could be done together but would be all or nothing.					

Groups and Indicators Packet

INDICATOR CHARTS cont. page 5 of 5

#	9	Indicator Description	The facility has properly disposed of all it's hazardous wastes.					
		Data Source						
Data Quality Indicator		good	ood Okay Prob- lem Issue:		Issue:			
Pre	ecisio	n	X			None		
Sei	Sensitivity			х		Could be minor like solvent rags going into the trash, or major like liquid solvent on the ground. Might be hard to evaluate.		
Re	prese	ntativeness	Х			Same as #1		
Co	mple	teness	X			Same as #1		
Bias		Х			Same as #1			
Validation								
Other issue:								

Group and Indicator Packet

GROUP EVALUATION CHART:

STATE	Connecticut	GROUP	SQG		Would do	_x Most Interested	
Easier to	Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consider	ation	Co	mplexity of	Metrics			
Single Med	dia	Х			Multi Media		
Regulatory	or Good Practices Only	X			Both Regulatory and	Good Practices	
Few requir	rements		х		Many Requirements		
Clear Cut I	Requirements		х		Subjective Requirem	ients	
		Cor	nplexity of	Sector			
Similar Fac	cilities			х	Diverse Facilities		
Small Univ	verse			х	Large Universe		
		Prior E	xperience V	Vith Sector	r		
Existing Se	ector	х			New Sector		
Existing D	ata System	X			No Data System		
Existing C	ommon Definitions			х	No Common Definitions		
Known Un	iverse	X			Unknown Universe		
Existing C	hecklists	X			No Checklists		
Historical	Data	X			No Historical Data		
Similar req	uirements across states			х	Dissimilar requireme	ents across states	
		Oth	er Conside	rations			
More Des	irable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distri states	bution of facilities across		x		Uneven distribution states	of facilities across	
Important e	environmental concern		х		Lesser environmenta	l concern	
Regulated	by the states and EPA		х		State only sector		
Ability to l outcome	ink to an environmental			x	Inability to link to ar outcome	environmental	
	re sophisticated about ntal regulation		x		Facilities are unsoph environmental regula		
No languag	ge barriers		х		Language barriers		
Other (list:)						

Group and Indicator Packet

INDICATOR EVALUATION CHARTS

STATE CT

GROUP SQGs

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#	1	L	Indicator Description	Are empl	Are employees trained to their level of responsibility?					
			Data Source	Data co	ollected	d on site	e visits by summer interns for 3 years			
Data Quality Indicato		good	Okay	Prob- lem	Issue: Main issue is that CT has some requirements for SQGs that are more stringent than the federal requirement and therefore may not be consistent with other states					
Pre	ecis	sio	n		х		Dependent on the knowledge of the inspector			
Se	nsit	tivi	ty		х					
Re	pres	esei	ntativeness	X			Over 3 years, nearly all SQGs have been visited			
Completeness		X								
Bias		X			Sites were randomly selected					
Validation										

#	2	2	Indicator Description	Are inspe	Are inspections of hazardous waste storage areas being conducted and documented?						
			Data Source	Data co	ollected	l on site	e visits by summer interns for three years				
Data Quality Indicator			ality Indicator	good	Okay	Prob- lem	Issue:				
Pre	Precision			X							
Sei	nsiti	tivi	ity		Х		2 part question could be problematic-they could conduct, but not document				
Re	pres	sei	ntativeness	х							
Co	Completeness		X								
Bias		X									
Validation			on								

#	3	Indicator Description		Are all containers of hazardous waste labeled with the words "Hazardous Waste" and a description of heir contents.						
		Data Source	Data colle	ected on	site visits	by summer interns for 3 years				
Data Quality Indicato			good	Okay	Prob- lem	Issue:				
Pre	ecisio	on		Х						
Sei	nsitiv	vity		Х		Another 2 part question				
Re	prese	entativeness	Х							
Co	Completeness									
Bias			Х							
Va	lidat	ion								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 2 of 2

STATE	СТ	GROUP	SQG

#	4	Indicator Description	Is there a	Is there at least three feet of aisle space between containers						
		Data Source	Data colle	ected on	site visits	by summer interns for three years				
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Pre	Precision			х						
Sei	nsitiv	vity		х						
Re	prese	entativeness	X							
Co	Completeness									
Bia	Bias									
Va	lidat	ion								

#	5	Indicator Description	IS the had amage	IS the hazardous waste being stored in containers that are closed and free of significant damage							
		Data Source	Data co	ollecte	d on site	e visits by summer interns					
Da	nta Q	Quality Indicator	good	Okay	Prob- lem	Issue:					
Pre	ecisi	on		Х							
Sei	nsiti	vity		х							
Re	pres	entativeness	Х								
Co	Completeness										
Bia	Bias										
Va	lida	tion									

#	6	Indicator Description	Have ha	Have hazardous waste determinations been conducted on all waste streams?						
		Data Source								
Data Quality Indicator			r good	Okay	Prob- lem	Issue:				
Pr	Precision			Х						
Se	Sensitivity			Х						
Re	pres	entativeness	х							
Completeness			х							
Bi	Bias									
Va	alidat	ion								

MA DEP - STATES' COMMON MEASURES PROJECT

Group and Indicator Packet:

GROUP EVALUATION CHART:

STATE	Massachusetts	GROUP	Autobody		_X_ Would do	Most Interested	
Easier to	Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consider	ration	Co	mplexity of	Metrics			
Single Me	dia			X	Multi Media		
Regulator	y or Good Practices Only	Х			Both Regulatory and	Good Practices	
Few requi	rements		X		Many Requirements		
Clear Cut	Requirements	Х			Subjective Requirem	ents	
		Cor	nplexity of	Sector			
Similar Fa	cilities	Х			Diverse Facilities		
Small Uni	verse			X	Large Universe		
		Prior E	xperience V	Vith Sector	r		
Existing S	ector		Х		New Sector		
Existing D	Data System		Х		No Data System		
Existing C	Common Definitions		Х		No Common Definitions		
Known U	niverse			X	Unknown Universe		
Existing C	Checklists		X		No Checklists		
Historical	Data			X	No Historical Data		
Similar re	quirements across states		X		Dissimilar requireme	ents across states	
		Oth	er Conside	rations			
More De	sirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distr states	ibution of facilities across		Х		Uneven distribution states	of facilities across	
Important	environmental concern		Х		Lesser environmenta	l concern	
Regulated	by the states and EPA		X		State only sector		
Ability to link to an environmental outcome			X		Inability to link to an outcome	environmental	
	are sophisticated about ental regulation			X	Facilities are unsoph environmental regula		
No langua	ge barriers		X		Language barriers		

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of 6

ST	TATI	E Massachusett	IS		GR	OUP	Autobody			
#	# 1 Indicator Use same hazardous wast						ors as for small quantity generators.			
	I	Data Source	(see haza	rdous v	vaste sma	te small quantity generator indicators charts)				
D٤	ata Q	uality Indicator	good	Okay	Prob- lem	Issue:				
Pr	ecisio	on								
Se	nsitiv	vity								
Re	prese	entativeness								
Co	omple	eteness								
Bi	Bias									
Validation										
Ot	her is	ssue:								

#	2	Indicator Description		Industrial wastewater (e.g. wash water) is discharged in compliance with surface water groundwater or sewer discharge standards.						
		Data Source								
Data Quality Indicator		good	Okay	Prob- lem	Issue:					
Precision		X			Inspector observations, questions and records					
Sei	Sensitivity		Х							
Re	prese	entativeness	Х							
Co	mple	eteness	Х							
Bia	Bias		Х							
Va	lidat	tion	Х							
Ot	Other issue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _2_ of 6

STATI	E Massachusetts	3		G	ROUP	Autobody				
# 3	Indicator Description	Paint	Paint spray guns use either electrostatic spray application method or High Volume Low Pressure (HVLP) application method.							
	Data Source					Field observations				
Data Q	Quality Indicator	good	Okay	Prob- lem	Issue					
Precisio	on	Х			-	Inspectors must be trained about methods and observe operations.				
Sensitiv	vity	Х								
Repres	entativeness	Х								
Comple	eteness	Х								
Bias		Х								
Validat	tion	Х								
Other issue:										
# 4	Indicator Description	Paint spi	ray boot	th achie	ves parti	culate control efficiency of 97% by weight.				

Description				
Data Source				Field observations
Data Quality Indicator	good	Okay	Prob- lem	Issue:
Precision	Х			Inspectors must be trained to observe operations.
Sensitivity	Х			
Representativeness	Х			
Completeness	Х			
Bias	Х			
Validation	Х			
Other issue:				

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _3_ of 6

STATE Massachusetts GROUP Autobody Indicator The face velocity of air at the filter shall not exceed 200 feet per minute. # 5 Description **Data Source** Field observations Prob-Okay **Data Quality Indicator** good **Issue:** lem Precision Sensitivity Representativeness Completeness Bias Validation Other issue: Need more information Indicator The VOC content of any preparation/cleanup solution does not exceed 1.67 pound per # 6 Description gallon. Field observations **Data Source** Prob-Okay **Data Quality Indicator** good **Issue:** lem Precision Inspector must look at container or MSDS sheets. Х Sensitivity Х Х Representativeness Completeness Х

Bias

Validation Other issue: X X

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 4 of 6

ST	ATE	Massachuset	ts		GF	ROUP	Autobody					
#	7	Indicator Description	Spray gi	pray gun cleaning is performed in a totally enclosed gun washer system.								
		Data Source	Field ob	servatio	ns							
Data Onality Indicator good Okay				Okay	Prob- lem	Issue						
Pre	Precision											
Se	Sensitivity											
Re	prese	ntativeness										
Co	Completeness											
Bi	Bias											
Validation												
Ot	her is	sue:										

#	8	8	Indicator Description	Cleanup	Cleanup solutions are stored in a container with a tight fitting cover.							
Data Source				Field ob	Field observations							
Da	Data Quality Indicator			good	Okay	Prob- lem	Issue:					
Pre	Precision		Х									
Sei	Sensitivity		X									
Re	Representativeness		X									
Co	Completeness		X									
Bias		X										
Va	Validation		Х									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _5 of 6

ST	АТЕ	Massachusetts			G	ROUP	Autobody		
#	9	Indicator Description					The stack conforms with regulatory standards		
Data Source							Field observations		
Data Quality Indicator		good	Okay	Prob- lem	Issue:				
Precision		Х			Inspec	Inspector must be trained on standards.			
Ser	Sensitivity		Х						
Re	prese	ntativeness	Х						
Co	Completeness		Х						
Bias		Х							
Validation X		Х							
Otl	ner iss	sue:							

#	10	Indicator Description	Emission	ns from	stack ha	ve 0% opacity.
		Data Source				Field observation
Data Quality Indicator		good	Okay	Prob- lem	Issue:	
Precision		Χ				
Sei	Sensitivity		X			
Re	prese	ntativeness	X			
Completeness			Х		Possibly not operating during inspection.	
Bias		X				
Va	lidati	on	Х			
Ot	Other issue:					

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 6 of 6

ST	ATE	Massachusetts	3		GR	OUP	Autobody				
#	11	Indicator Description	Sufficier	Sufficient records are maintained to demonstrate compliance.							
		Data Source									
D٤	Data Quality Indicator			Okay	Prob- lem	Issue	:				
Pre	Precision		Х								
Se	nsitivi	ty	Х								
Re	preser	ntativeness	Х								
Co	Completeness			Х		Must must	have a common understanding of how complete records be				
Bi	Bias			Х		Some	e judgement on what is sufficient.				
Va	Validation		Х								
Ot	her iss	ue:									

MA DEP - STATES' COMMON MEASURES PROJECT Group and Indicator Packet:

GROUP EVALUATION CHART:

ollect Good Data ion r Good Practices Only nents quirements ities	X X X X	Somewhat difficult mplexity of X	More difficult Metrics	More Difficult to C Multi Media Both Regulatory and	Collect Good Data
r Good Practices Only nents quirements ities	X X X X		Metrics		
r Good Practices Only nents quirements ities	X X X	X			
nents quirements ities	X X X			Both Regulatory and	
quirements ities	X				Good Practices
ities				Many Requirements	
	Cor			Subjective Requirem	ients
		mplexity of	Sector		
	X			Diverse Facilities	
se		X		Large Universe	
	Prior E	xperience V	Vith Sector	r	
or	X			New Sector	
n System	X			No Data System	
nmon Definitions			X	No Common Definit	ions
erse		Х		Unknown Universe	
cklists	X			No Checklists	
ta		Х		No Historical Data	
rements across states			X	Dissimilar requireme	ents across states
	Oth	er Conside	rations		
able/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector
tion of facilities across	X			Uneven distribution states	of facilities across
vironmental concern	X			Lesser environmenta	l concern
the states and EPA			X	State only sector	
k to an environmental		Х		Inability to link to an outcome	environmental
sophisticated about al regulation		Х			
barriers	X			Language barriers	
ates have a program			Х		
	or System mon Definitions erse Cklists ta rements across states able/Easier Sector tion of facilities across vironmental concern the states and EPA to an environmental sophisticated about l regulation barriers	Prior E or X System X imon Definitions Image: Section of facilities across states cklists X ta Image: Section of facilities across <i>tion of facilities across</i> X <i>x x</i> <	Prior Experience WorXSystemXSystemXamon DefinitionsIerseXcklistsXcklistsXtaIrements across statesIOther ConsiderMost desirableton of facilities acrossXvironmental concernXthe states and EPAIc to an environmentalXiregulationXbarriersXInterpretentionXInterpretentionIInterpre	Prior Experience With SectororXSystemXsystemXXamon DefinitionsXXerseXcklistsXtaXXtaXXrements across statesXXOther ConsiderationsAlble/Easier SectorMost desirableSomewhat desirableLess desirabletion of facilities acrossXrironmental concernXXthe states and EPAXXsophisticated about l regulationXbarriersXion of facilities acrossXthe states and EPAXstates and EPAXsophisticated about l regulationXion of facilities acrossXion of facilities across <t< td=""><td>Prior Experience With SectororXNew SectorSystemXNo Data Systemmon DefinitionsXNo Common DefiniterseXUnknown UniversesklistsXNo CheckliststaXNo CheckliststaXNo Historical Datarements across statesXNo Historical DataOther Considerationsthe/Easier SectorMost desirableSomewhat desirablethe states and EPAXLess environmentathe states and EPAXState only sectorsophisticated about l regulationXFacilities are unsoph environmental regulationXXXLanguage barriersSophisticated about l regulationXLanguage barriersXXXXLanguage barriers</td></t<>	Prior Experience With SectororXNew SectorSystemXNo Data Systemmon DefinitionsXNo Common DefiniterseXUnknown UniversesklistsXNo CheckliststaXNo CheckliststaXNo Historical Datarements across statesXNo Historical DataOther Considerationsthe/Easier SectorMost desirableSomewhat desirablethe states and EPAXLess environmentathe states and EPAXState only sectorsophisticated about l regulationXFacilities are unsoph environmental regulationXXXLanguage barriersSophisticated about l regulationXLanguage barriersXXXXLanguage barriers

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _5

ST	ATE	2 Massachuse	tts		GR	OUP	Dentists				
#	1	Indicator Description		ne facility has installed an amalgam separator system (ASS) according to manufacturer's specifications at serves all chairs and cuspidors							
Data Source Field observation											
Data Onality Indicator good Okay			Prob- lem	Issu	Issue:						
Pre	ecisio	on	X			Assu	Assuming field observations				
Sei	nsitiv	vity	Х								
Re	prese	entativeness	Х			Assu	Assuming random sample				
Co	mple	eteness	X								
Bia	Bias X		Х	If us	If use voluntary certification data only						
Validation X											
Ot	her is	ssue:									

#	2	Indicator Description	The ASS	The ASS is appropriately sized (given the number of chairs and flow rates)						
Data Source Field observation										
Data Quality Indicator		good	Okay	Prob- lem	Issue:					
Pre	ecisio	on	Х			Inspector would need training/information on ASS models and performance levels				
Ser	nsitiv	vity	X							
Re	prese	entativeness	Х							
Co	mple	eteness	Х							
Bia	as		Х							
Va	lidat	ion	Х							
Otl	her is	ssue:								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _2_ of _5_

STATE	Massachusetts			GROUP Dentists						
# 3	Indicator Description	The ASS meets the regulatory or voluntary program efficiency stand								
	Data Source					Field observations				
Data Qu	ality Indicator	good	Okay	Prob- lem	Issue					
Precision		X				need to identify ASS specs in the field or have knowledge O certification standards.				
Sensitivit	у	Х								
Represen	tativeness	Х								
Completeness		Х								
Bias		Х								
Validation		Х								
Other issue	Other issue:									

#	4	Indicator Description				erates and maintains the ASS according to manufacturer cartridge changes and regular service).
		Data Source				Field observations
Data Quality Indicator			r good	Okay	Prob- lem	Issue:
Precision			X		Need to understand specifications for ASS and ask questions or observe records to determine.	
Se	Sensitivity			Х		
Re	pres	entativeness	Χ			
Co	mpl	eteness	Х			
Bi	Bias			Х		
Va	lida	tion	Х			
Other issue:						

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _3_ of _5

ST	ATE	Massachuset	ts		GR	ROUP	Dentists					
#	5	Indicator Description		The facility stores all amalgam waste it generates in containers that are sealed and tructurally sound.								
		Data Source	Field ob	servatio	ns							
Da	Data Quality Indicator good Okay Prolem					Issue	:					
Pre	ecision	1	Х									
Se	nsitivi	ty	Х									
Re	preser	ntativeness	Х									
Co	mplet	eness	Х									
Bia	Bias											
Va	lidatio	on	Х									

#	6	Indicator Description		The facility has at least one person who is familiar with the procedures to follow to ensure compliance with the ASS standards and operation and maintenance requirements.						
		Data Source	Field ob	servatic	ons					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:				
Pre	Precision			Х		Inspector must question the person to judge performance with indicator.				
Sei	nsiti	vity		Х						
Re	pres	entativeness	Х							
Co	mpl	eteness	Х							
Bia	Bias			Х						
Validation		Х								
Ot	her i	ssue:								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _4_ of _5

ST	ATE	E Massachuset	ts		Gl	ROUP	Dentists		
#	7	Indicator Description					lgam waste it generates at the location (from separators, inused in procedures).		
Data Source Field observations									
Data Quality Indicator			r good	Okay	Prob- lem	Issue	Issue:		
Pre	Precision					Inspec	Inspector questions, observations and records		
Se	nsitiv	vity	Х						
Re	prese	entativeness	Х						
Co	mple	eteness	Х						
Bias			Х						
Validation			Х						
Ot	her is	ssue:							

#	8	Indicator Description	The faci	The facility has records that show the amalgam was shipped to an authorized recycler.						
		Data Source	Field ob	servatio	ons					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:				
Precision			Х			Records – yes or no. "authorized recycler" determination may require investigation				
Sei	Sensitivity		Х							
Re	pres	entativeness	Х							
Co	mpl	eteness	Х							
Bias		Х								
Va	Validation									
Ot	her i	ssue:								

Group and Indicator Packet

INDICATOR EVALUATION CHARTS page 5 of _5

ST	ATE	Massachusett	ts		GR	OUP	Dentists		
#	9	Indicator Description					treatments or cleaners with pH between 6.5 and 9 when ng) vacuum system lines.		
Data Source Field observation									
Da	ta Q	uality Indicator	good	Okay	Prob- lem	Issue	Issue:		
Pre	ecisio	n	X			Inspe	Inspector observes cleaner information/specifications		
Sei	nsitiv	rity	Х						
Re	prese	entativeness	Х						
Co	mple	teness	Х						
Bias			Х						
Validation			Х						
Ot	her is	sue:							

#	1 0	Indicator Description		The facility maintains records demonstrating compliance with standards operation and maintenance equirements, and shipping and recycling.							
		Data Source									
Da	Data Quality Indicator			Okay	Prob- lem	Issue:					
Pre	Precision					Need to decide how complete records must be.					
Sei	Sensitivity		Х								
Re	prese	entativeness	Х								
Co	mple	eteness	Х								
Bia	Bias			Х							
Validation		Х									
Ot	her is	ssue:									

ME DEP - STATES' COMMON MEASURES PROJECT

Groups and Indicators Packet:

STATE	Maine	GROUP	Small Quar body Sector	ntity Generat or	ors-Auto	Would do	_x_Most Interested	
Easier to	Collect Good Da	ta	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Conside	ration		Cor	nplexity of	Metrics			
Single Me	edia				х	Multi Media		
Regulator	y or Good Practices	Only			х	Both Regulatory and	Good Practices	
Few requi	rements				х	Many Requirements		
Clear Cut	Requirements		Х			Subjective Requirem	ents	
			Cor	nplexity of	Sector			
Similar Fa	acilities		Х			Diverse Facilities		
Small Uni	verse		Х			Large Universe		
			Prior Ex	xperience V	Vith Secto	r		
Existing S	Sector		Х			New Sector		
Existing I	Data System		Х			No Data System		
Existing C	Common Definition	s	X			No Common Definitions		
Known U	niverse		Х			Unknown Universe		
Existing C	Checklists		Х			No Checklists		
Historical	Data		Х			No Historical Data		
Similar re	quirements across s	tates		Х		Dissimilar requireme	ents across states	
			Oth	er Conside	rations			
More De	sirable/Easier Se	ctor	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distr states	ibution of facilities	across		Х		Uneven distribution states	of facilities across	
Important	environmental con	cern		Х		Lesser environmenta	l concern	
Regulated	by the states and E	PA	Х			State only sector		
Ability to outcome	link to an environm	Х			Inability to link to an outcome	environmental		
	are sophisticated ab ental regulation		х		Facilities are unsoph environmental regula			
No langua	age barriers		х		Language barriers			
Other (list	::)							

GROUP EVALUATION CHART:

Groups and Indicators Packet:

INDICATOR CHARTS page 1 of 4

STATE	Maine			GROU	JP	Hazardous Waste Small Quantity Generators-Auto Body				
# 1	Indicator Description	Facility did not exceed the timeliness thresholds for hazardous waste storage								
	Data Source	New insp	pection re	esults or h	isto	ric data from auto body sector				
Data Qu	Data Quality Indicator good Okay P				Issue:					
Precision		х			per	noncompliance threshold is clearly defined in terms of time riod assessed (e.g. past X yrs) and if any lapses are allowed g. NO exceedances at all)				
Sensitivit	у	х			Sei	nsitivity is not an issue because of yes / no answers				
Represen	tativeness	x			Go	od.				
Complete	eness	Х			Co	nsistent checklist used during each inspection				
Bias			X		So	uthern Maine Region coverage of inspections				
Validation		Х			Fo	llow up inspections through ERP model				
Other issued	ue:									

#	2	Indicator Description	Facility of	acility did not exceed the quantity thresholds for hazardous waste storage						
		Data Source	Same as	indicato	or #1					
Data Quality Indicator			good	Okay	Problem	Issue:				
Precision			х			Same as #1				
Sensitivity			Х			Same as #1				
Re	prese	entativeness	х			Same as #1				
Co	mple	eteness	х			Same as #1				
Bias			X		Same as #1					
Validation		Х			Same as #1					
Otl	ner is	ssue:								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR CHARTS cont. page 2 of 4

ST	TATE	Maine			GRO	OUP	Hazardous Waste Small Quantity Generators-Auto Body					
	1 1											
#	3	Indicator Description	The faci	he facility manifested all hazardous wastes and used a licensed transporter								
		Data Source	Same as	indicate	or #1							
Data Quality Indicator good Okay				Okay	Problem	Iss	16:					
Precision			х			Go	Good, file search					
Se	nsitiv	ity	х			Same as #1						
Re	eprese	entativeness	X			Sar	ne as #1					
Co	omple	teness	X			Sar	ne as #1					
Bias				х		Sar	ne as #1					
Validation x		х			Sar	ne as #1						
Ot	her is	sue:										

#	4	Indicator Description	All haza	All hazardous waste containers are properly labeled							
		Data Source	Same as indicator #1								
Data Quality Indicator			good	Okay	Problem	Issue:					
Precision			х			ANY barrel with no label, or any barrel with a label that is incomplete or falling off					
Se	nsitiv	vity	Х			Same as #1					
Re	prese	entativeness	Х			Same as #1					
Completeness			Х			Same as #1					
Bias			х		Same as #1						
Validation			х			Same as #1					

#	5	Indicator Description	All hazardous waste containers are closed					
	Data Source			Same as indicator #1				
Da	Data Quality Indicator			Okay	Prob- lem	Issue:		
Pre	Precision					Good, container cover check method is consistent		
Sei	Sensitivity					Same as #1		
Re	Representativeness					Same as #1		
Co	Completeness					Same as #1		
Bias				х		Same as #1		
Va	Validation					Same as #1		

Groups and Indicators Packet

INDICATOR CHARTS cont. page 3 of 4

STATE		Maine		GR	OUP	Hazardous Waste Small Quantity Generators-Auto Body			
#	6	Indicator Description	Does the shop containerize the wastes (like rags and other absorbent material) generated from cleanups of hazardous waste spills and treat or dispose of it as hazardous waste?						
	Data Source								
Data Quality Indicator			good	Okay	Prob- lem	Issue:			
Precision			х			Good	Good, observable during inspection		
Sensitivity			х			Same as #1			
Re	prese	ntativeness	х			Same as #1			
Co	mple	teness	х			Same as #1			
Bias				X		Same as #1			
Validation			X			Same as #1			
#	7	Indicator Description	Does the shop train all employees in the proper use and handling of paints and coatings according to the manufacturers' recommendations to minimize air emissions?						
Data Source Same as Indica					or 1				

Data Source S	Same as Indicator 1					
Data Quality Indicator	good	Okay	Prob- lem	Issue:		
Precision	X			Good, training records on file to review		
Sensitivity	X			Same as #1		
Representativeness	х			Same as #1		
Completeness	X			Same as #1		
Bias		х		Same as #1		
Validation	х			Same as #1		

Groups and Indicators Packet

INDICATOR CHARTS cont. page 4 of 4

STATE		Maine				OUP	Hazardous Waste Small Quantity Generators-Auto Body		
#	8	Indicator Description	Do any airborne emissions from painting/coating leave the business premises?						
Data Source Same as indicator #					or #1	<i>ŧ</i> 1			
Da	Data Quality Indicator good Oka				Prob- lem	Issue:			
Precision			Х			Determine if exceed 20% opacity and/or exceed 10 tons/yr HAPs, 50 tons/yr VOCs or a combined 25 tons/yr of HAPs & VOCs			
Sensitivity			Х			Same as #1			
Representativeness			Х			Same	e as #1		
Completeness			Х			Same	e as #1		
Bias				x		Same	Same as #1		
Validation			х			Same	e as #1		

NH DES - STATES' COMMON MEASURES PROJECT Group and Indicator Packet

INDICATOR EVALUATION CHARTS page 1 of _5

ST	TATI	E New Ham	pshire	hire		OUP	Hazardous Waste Small Quantity Generators						
#	1	Indicator Description	Facility waste.	Facility has made efforts to reduce the toxicity or volume of its hazardous waste.									
Data Source RCRA summer intern inspections													
Data Quality Indicator good Okay Prolem						Issue:							
Pre	ecisio	n			Х	Lacks	s common definitions of "efforts" and "reduce"						
Sei	nsitiv	ity			Х	Same	Same as above						
Re	prese	ntativeness	Х			From	past survey but chosen randomly						
Co	mple	teness	Х										
Bia	Bias X			Х	Subject to data collector's definition								
Validation X													
Otl	her is	sue:											

#	2	Indicator Description	Facility	Facility conducts facility-wide compliance assessments						
Data Source RCRA summer intern inspections										
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Precision				Х	Lacks common definition of "facility-wide assessment"					
Sei	Sensitivity				Х	Same as above				
Re	pres	entativeness	Х			From past survey but chosen randomly				
Co	mpl	eteness	Х							
Bia	as				Х	Subject to data collector's definition				
Va	lida	tion	Х							
Otl	her i	issue:								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _2_ of _5

ST	ATE	New Hamp	oshire		GF	ROUP	Hazardous Waste Small Quantity Generators		
#	3	Indicator Description	Primar manage				coordinators received hazardous waste		
		Data Source	RCRA	summ	er inter	rn insp	ections		
Data Quality Indicator good Okay Prolem					Prob- lem	Issue	Issue:		
Pre	ecisio	n		Х		Wide	Wide variation in what constitutes training.		
Sei	nsitiv	ity		Х		Same	Same as above		
Re	prese	ntativeness	Х			From	From past survey but chosen randomly		
Co	mple	teness	Х						
Bia	Bias								
Validation X									
Ot	her is	sue:							

#	4	Indicator Description		All containers of hazardous waste are labeled with the words, "Hazardous Wastes."							
		Data Source	RCRA	summ	er inter	n surveys					
Da	Data Quality Indicator good Okay Prob- lem					Issue:					
Pre	Precision										
Se	nsitiv	vity	Х								
Re	pres	entativeness	Х			From past survey but chosen randomly					
Co	mple	eteness	Х								
Bia	Bias										
Validation		Х									
Ot	her i	ssue:									

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _3_ of _5

STATE New Hampshire					GR	ROUP	OUP Hazardous Waste Small Quantity Generators						
#	5	Indicator Description		There is a distance of at least 2 feet of access (aisles) space on at least one side of each HW container.									
		Data Source	RCRA	summ	er inter	n insp	ections						
Data Chiality Indicator good Ukav					Prob- lem	Issue	:						
Pre	ecisio	n	Х										
Se	nsitivi	ity	Х										
Re	presei	ntativeness	Х			From	past survey but chosen randomly						
Co	mplet	teness	Х										
Bias X													
Validation X			X										
Other issue: X													

#	6	Indicator Description		Hazardous wastes are stored in containers that are closed and free of damage or deterioration.						
		Data Source	RCRA	summ	ner inter	n inspections				
Da	nta Q	Quality Indicate	or good	Okay	Prob- lem	Issue:				
Precision				Х	Requires clear definition of "closed and free of damage or deterioration"					
Sei	nsiti	vity			Х	Same as above				
Re	pres	entativeness	X			From past survey but chosen randomly				
Co	mpl	eteness	X							
Bia	Bias				Х	Subject to data collectors definition.				
Va	Validation		X							
Ot	her i	ssue:								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 4 of 5

ST	ATE	New Hamp	oshire		GR	ROUP	OUP Hazardous Waste Small Quantity Generators				
#	7	Indicator Description	-	Facility has emergency postings at telephone nearest hazardous waste storage area							
		Data Source	RCRA	summ	er inter	n insp	ections				
Da	Data Quality Indicator			Okay	Prob- lem	Issue	Issue:				
Pre	ecision	1		Х		Could	Could be problem with definition of "nearest"				
Sei	nsitivi	ty		Х							
Re	presei	ntativeness	Х			From past survey but chosen randomly					
Co	mplet	eness	Х								
Bia	Bias X										
Va	Validation X										
Ot	her iss	sue:									

#	8	Indicator Description	All exi	All existing waste streams have been characterized							
		Data Source	RCRA	summ	er inter	n inspections					
Da	nta (Quality Indicator	good	good Okay Prob- lem Issue:							
Pre	Precision										
Se	Sensitivity										
Re	pres	sentativeness	Х			From past survey but chosen randomly					
Co	mpl	eteness	Х								
Bia	Bias										
Validation		Х									
Ot	her i	issue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _5 of 5_

ST	STATE New Hamps				G	ROUP	Hazardous Waste Small Quantity Generators				
#	9	Indicator Description	Facility	Facility practices good housekeeping							
		ections									
Data Quality Indicator goo			good	Okay	Prob- lem	Issue	Issue:				
Pre	Precision				Х	Diffic	ult to define what "good housekeeping" consists of				
Sei	nsitivi	ty			Х	Same	as above				
Re	preser	tativeness	Х			From	past survey but chosen randomly				
Co	mplet	eness	Х								
Bia	Bias				Х	Subje	ct to data collector's definition.				
Validation		Х									
Otl	her iss	ue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _1 of 3

ST	ATE	New Hamp	oshire		GR	ROUP	Underground Storage Tanks (USTs)					
#	1	Indicator Description	Facility	Facility operators have written tightness testing records for USTs								
		Data Source	Underg	ground	Storag	e Tanl	k Program historic data and inspection results					
Da	ita Qi	ality Indicato	r good	Okay	Prob- lem	Issue	Issue:					
Pre	ecisio	n		Х		Possi	Possible variation in definition of acceptable written records					
Sei	nsitiv	ity	Х									
Re	prese	ntativeness	Х									
Co	mple	teness	Х									
Bia	Bias											
Validation			Х									
Otl	her is	sue:										

#	2	Indicator Description	Gallon	Gallons of oil/gasoline reduced through leaking tank replacement							
		Data Source	Underg	ground	Storag	e Tank Program historic data and inspection results					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:					
Precision			X								
Sei	nsitiv	vity	X								
Re	prese	entativeness	Х								
Co	mple	eteness		Х							
Bia	Bias			Х							
Validation				Х	Difficult to measure "gallons not leaked" other than by modeling						
Ot	her i	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 2 of 3

ST	ATE	New Hamp	oshire		GR	OUP	Underground Storage Tanks (USTs)					
#	3	Indicator Description	Facility	Facility has all registered tanks equipped with overfill protection								
		Data Source	Underg	ground	Storag	age Tank Program historic data and response results						
Da	Data Quality Indicator			Okay	Prob- lem	Issue	:					
Pre	ecisio	n	X									
Sei	nsitiv	ity	X									
Re	prese	ntativeness	Х									
Co	mple	teness	Х									
Bia	Bias											
Va	Validation											
Ot	her is	sue:										

#	4	Indicator Description	Facility	Facility has SPCC Plan in place							
		Data Source	Histori	cal dat	ta and I	nspections					
Da	ita Q	Quality Indicator	good	Okay	Prob- lem	Issue:					
Pre	Precision			X		Could be issue with definition of SPCC Plan although PE stamp required					
Sei	nsitiv	vity	Х								
Re	pres	entativeness	Х								
Co	mple	eteness	Х								
Bias		X									
Validation		Х									
Ot	her i	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 3 of 3

ST	TATE	New Hamp	oshire		GR	OUP	Underground Storage Tanks (USTs)
#	5	Indicator Description	Facility	docui	ments r	outine	UST inspections in writing
			Histori	cal dat	a and in	nspect	ions
Da	Data Quality Indicator			Okay	Prob- lem	Issue	:
Pre	ecisio	n	Х				
Se	nsitiv	ity	Х				
Re	prese	ntativeness	Х				
Co	mplet	eness	Х				
Bi	Bias						
Va	Validation						
Ot	her is:	sue:					

#	6	Indicator Description	Facility	Facility has all tanks registered with Department of Environmental Services							
		Data Source	"One S	top" d	atabase	e, site inspections and historical records					
Data Quality Indicator			good	od Okay Prob- lem Issue:							
Pre	Precision										
Sei	nsitiv	vity	X								
Re	prese	entativeness	Х								
Co	mple	eteness	Х								
Bia	Bias										
Va	Validation			Х		Only addresses facilities already registered in state system					
Ot	her is	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _1 of 2

ST	TATE	New Hamp	shire		G	ROUP	Dental Facilities					
#	1	Indicator Description	Facility	Facility uses approved Amalgam Separator to recycle mercury								
		Data Source	Inspect	ections, survey data and historical data								
Da	Data Quality Indicator			Okay	Prob- lem	Issue	:					
Pre	ecisio	n	Х									
Sei	nsitiv	ity	Х									
Re	prese	ntativeness		Х								
Co	Completeness											
Bia	as		Х									
Va	lidati	on	Х									

#		2	Indicator Description	-	Facility has eliminated mercury amalgam fillings (switch to non-mercury restorative)									
			Data Source	Inspect	tions, s	survey o	lata and historical data							
Da	Data Ouality Indicator good Okay .					Prob- lem	Issue:							
Pre	Precision			Х										
Se	ens	sitiv	vity	Х										
Re	epr	rese	entativeness		Х									
Co	om	nple	teness	Х										
Bia	Bias			Х										
Va	Validation			Х										

#	3	Indicator Description	Facility	Facility has eliminated all X-ray waste (switched to digital radiography)								
		Data Source	Inspect	tions, s	urvey d	lata and historical data						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:						
Pre	ecisio	on	Х									
Sei	nsitiv	vity	Х									
Re	prese	entativeness		Х								
Co	Completeness											
Bia	Bias											
Va	Validation			Х		Facility could "farm out" x-ray service – not real P2						

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 2 of 2

ST	ATE	New Hamp	oshire		G	ROUP	Dental Facilities
#	4	Indicator Description	Facility	recov	ers sil	ver fro	m spent X-ray solution
		Data Source	Inspect	ions, s	urvey	data ar	nd historical data
Da	ıta Qı	ality Indicato	r good	Okay	Prob- lem	Issue	:
Pre	ecisio	n	Х				
Sei	nsitiv	ity	Х				
Re	prese	ntativeness		Х			
Co	mplet	eness	Х				
Bia	Bias X						
Va	Validation X						
Ot	her is:	sue:					

#	5	Indicator Description	Facility waste	Facility recycles waste amalgam or manages waste amalgam as hazardous waste							
		Data Source	Inspect	tions, s	survey d	lata and historical data					
Da	Data Quality Indicator			Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsitiv	vity	Х								
Re	prese	entativeness		Х							
Co	mple	eteness	Х								
Bia	Bias										
Validation			Х								
Otl	her is	ssue:									

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _1 of 5

ST	TATE	New Hamp	oshire		GR	OUP	Auto Repair/Auto Body Facilities					
#	1	Indicator Description	2	Facility has obtained EPA ID number from Department of Environmental Services								
		Data Source	"One S	top" D	atabas	e, hist	orical data, inspections					
Da	Data Quality Indicator g			Okay	Prob- lem	Issue	:					
Pre	ecisio	n	Х									
Sei	nsitiv	rity	Х									
Re	prese	entativeness	Х									
Co	Completeness X											
Bia	Bias X											
Va	lidati	on	Х									

#	2	Indicator Description	Facility	Facility only uses EPA-approved Low VOC paint							
		Data Source	Historic	Historical data, inspections							
Da	ita Q	uality Indicator	good	Okay	Prob- lem	Issue:					
Pre	ecisic	on	Х								
Ser	nsitiv	vity	Х								
Rej	prese	entativeness	Х								
Co	mple	eteness	Х								
Bia	as		Х								
Va	lidati	ion	X								
#	3	Indicator Description	Facility	recyc	les (BT	U recovery or Re-refining) used oil					
		Data Source	Historic	Historical data, inspections							
Da	ita Q	uality Indicator	good	Okay	Prob- lem	Issue:					
Pre	ecisio	on	X								
Ser	Sensitivity										
Rej	Representativeness										
Co	mple	eteness	Х								
Bia	as		Х								
Va	lidati	ion	Х								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _2 of 5

ST	ATE	New Hamp	oshire			GROUP	Auto Repair/Auto Body Facilities					
Otl	her is	sue:										
#	4	Indicator Description	Facility	y has c	ertifie	d CFC technician & EPA-certified CFC evacuator						
		Data Source	Histori	cal dat	ta, insp	spections						
Da	Data Quality Indicator g			Okay	Prob- lem	Issue:						
Pre	ecisio	n	X									
Ser	nsitiv	ity	X									
Re	prese	ntativeness	X									
Co	mple	teness	X									
Bia	as		Х									
Va	lidati	on	Х									
#	5	Indicator Description	Facility	y recyc	cles an	tifreeze						
		Data Source	inspect	nspections								
Da	ita Qi	uality Indicator	r good	Okay	Prob- lem	Issue:	Issue:					
Pre	ecisio	n	Х									
Sei	nsitiv	ity	Х									
Rej	prese	ntativeness	Х									
Co	mple	teness	Х									
Bia	as		Х									
Va	lidati	on	Х									
#	6	Indicator Description	Hazard contair			andled/sto	pred in a compliant manner (labels,					
		Data Source	Inspect	tions								
Da	ita Qi	uality Indicator	good	Okay	Prob- lem	Issue:						
Pre	Precision											
Sensitivity			Х									
Re	Representativeness											
Co	mple	teness	Х									
Bia	as		Х									
Va	lidati	on		Х		Not con	firmed by RCRA Inspectors					

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _3 of 5

ST	ATE	New Hamp	oshire			GROUP	Auto Repair/Auto Body Facilities				
#	7	Indicator Description	Spray]	Booths	s utiliz	ed at auto	o body shops				
		Data Source	Inspecti	ons							
Da	ta Qu	ality Indicato	r good	Okay	Prob- lem	Issue:	Issue:				
Pre	Precision X					Definiti	on of a spray booth				
Ser	nsitivi	ty	Х								
Rej	presei	ntativeness	Х								
Co	mplet	eness	Х								
Bia	ıs		Х								
Va	lidatio	on	Х								
#	8	Indicator Description	Solven	ts reco	overed	/reused					
		Data Source	Inspect	tion/re	cords						
Da	ta Qu	ality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	cisio	1		Х		Amount	ts usually not determined with precision				
Ser	nsitivi	ty	Х								
Rej	presei	ntativeness	Х								
Co	mplet	eness	Х								
Bia	ıs		Х								
Va	lidatio	on	Х								
#	9	Indicator Description	HVLP	Spray	guns	utilized					
		Data Source	Inspec	tions							
Da	ta Qu	ality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	cisio	1	Х								
Sensitivity X											
Representativeness X											
Co	mplet	eness	Х								
Bia	ıs		Х								
Va	lidatio	on	Х								

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet**

ST	ATE	New Hamp	oshire			GROUP	Auto Repair/Auto Body Facilities					
Ot	her iss	ue:										
#	10	Indicator Description	Parts w	vashing	g done	e with low	v VOC solvents in approved units					
		Data Source	Inspection	Inspections								
Da	ita Qu	ality Indicator	good	Okay	Prob- lem	Issue:						
Pre	ecision	1	Х									
Sei	nsitivi	ty	Х									
Re	preser	ntativeness		Х		New red	quirements being implemented					
Co	mplet	eness	Х									
Bia	as		Χ									
Va	lidatio	on	Χ									
Ot	her iss	ue:										
#	11	Indicator Description	Spill R	Spill Response Kits available								
		Data Source	Inspect	Inspections								
Da	ita Qu	ality Indicator	good	Okay	Prob- lem	Issue:						
Pre	ecision	1	Χ									
Sei	nsitivi	ty	Χ									
Re	Representativeness											
Completeness			Х									
Bia	Bias											
Va	lidatio	on	Х									
Ot	her iss	ue:										

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont.** page _5 of 5

ST	STATE New Hampshire				(GROUP	Auto Repair/Auto Body Facilities				
#	12	Indicator Description	Floor c	lrains s	sealed o	l or registered/permitted					
		Data Source	Inspect	tions/H	Iistoric	al data					
Da	Data Quality Indicator			Okay	Prob- lem	Issue:	Issue:				
Pre	ecisio	n	Χ								
Sei	nsitiv	ity	Х								
Re	prese	ntativeness	Х								
Co	mple	teness	Х								
Bias X											
Validation X											
Ot	her is	sue:									

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Group and Indicator Packet

INDICATOR EVALUATION CHARTS page 1 of _5_

STATE New Hamp		pshire			ROUP	Hazardous Waste Small Quantity Generators							
#	1	Indicator Description	Facility waste.	Facility has made efforts to reduce the toxicity or volume of its hazardous waste.									
		Data Source	RCRA	summe	er inter	n insp	ections						
Data Quality Indicator good Okay ==					Prob- lem	Issue:							
Pre	ecisio	on			Х	Lacks	s common definitions of "efforts" and "reduce"						
Sei	nsitiv	vity			Х	Same	e as above						
Rej	prese	entativeness	X			From	past survey but chosen randomly						
Co	mple	eteness	X										
Bia	Bias				Х	Subje	ect to data collector's definition						
Validation		Х											
Otl	ner is	ssue:											

#	2	Indicator Description	Facility	Facility conducts facility-wide compliance assessments						
		Data Source	RCRA	summ	er interi	n inspections				
Data Quality Indicator			good	Okay Prob- lem Issue:		Issue:				
Precision				Х	Lacks common definition of "facility-wide assessment"					
Sei	Sensitivity				Х	Same as above				
Re	pres	entativeness	Х			From past survey but chosen randomly				
Co	mple	eteness	Х							
Bia	as				Х	Subject to data collector's definition				
Validation		Х								
Otl	her i	ssue:								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _2_ of 5_

STATE New Hamps			oshire		GF	ROUP	Hazardous Waste Small Quantity Generators		
#	3	Indicator Description	Primar manage	<i>,</i>			coordinators received hazardous waste		
		Data Source	RCRA	summ	er inter	rn insp	ections		
Data Quality Indicator good Oka				Okay	Prob- lem	Issue	Issue:		
Pre	ecisio	n		Х		Wide	variation in what constitutes training.		
Sei	nsitiv	ity		Х		Same	Same as above		
Re	prese	ntativeness	Х			From	past survey but chosen randomly		
Co	mplet	eness	Х						
Bia	Bias		Х						
Validation		Х							
Ot	her is:	sue:							

#	4	Indicator Description		All containers of hazardous waste are labeled with the words, "Hazardous Wastes."								
		Data Source	RCRA	summ	er inter	n surveys						
Da	nta Q	Quality Indicato	r good	Okay	Prob- lem	Issue:						
Pre	Precision											
Se	nsitiv	vity	Х									
Re	prese	entativeness	Х			From past survey but chosen randomly						
Co	mple	eteness	Х									
Bi	Bias											
Va	Validation											
Ot	her is	ssue:										

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 3 of 5 ____

STATE New Hamps			oshire		GR	ROUP	Hazardous Waste Small Quantity Generators						
#	5	Indicator Description		There is a distance of at least 2 feet of access (aisles) space on at least one side of each HW container.									
	I I	Data Source	RCRA	summ	er inter	m insp	ections						
Da	ıta Qı	uality Indicato	r good	Okay	Prob- lem	Issue	:						
Pre	ecisio	n	Х										
Se	nsitiv	ity	Х										
Re	prese	ntativeness	Х			From	past survey but chosen randomly						
Сс	mplet	teness	Х										
Bias			Х										
Validation			Х										
Other issue: X			v										

#	6	Indicator Description		Hazardous wastes are stored in containers that are closed and free of damage or deterioration.						
		Data Source	RCRA	summ	er inter	n inspections				
Da	ita Q	Quality Indicato	r good	Okay	Prob- lem	Issue:				
Precision				Х	Requires clear definition of "closed and free of damage or deterioration"					
Sei	nsiti	vity			Х	Same as above				
Re	pres	entativeness	Χ			From past survey but chosen randomly				
Co	mple	eteness	Χ							
Bias				Х	Subject to data collectors definition.					
Validation		Х								
Ot	her i	ssue:								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _4 of _5_

ST	STATE New Hamps				GR	GROUP Hazardous Waste Small Quantity Generator						
#	7	Indicator Description	•	Facility has emergency postings at telephone nearest hazardous waste storage area								
		Data Source	RCRA	summ	er inter	n insp	ections					
Data Ouality Indicator good Okay					Prob- lem	Issue:						
Pre	ecisio	n		Х		Could	be problem with definition of "nearest"					
Sei	nsitiv	ity		Х								
Re	prese	ntativeness	Х			From	past survey but chosen randomly					
Co	mple	teness	Х									
Bia	Bias X											
Validation X												
Ot	her is	sue:										

#	8	Indicator Description	All exi	All existing waste streams have been characterized						
		Data Source	RCRA	summ	er inter	n inspections				
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Precision		Х								
Sei	nsiti	vity	Х							
Re	pres	entativeness	Х			From past survey but chosen randomly				
Co	mpl	eteness	Х							
Bias		Х								
Validation		Х								
Otl	her i	ssue:								

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _5 of 5_

STATE New Hamps		oshire		G	ROUP	Hazardous Waste Small Quantity Generators					
#	9	Indicator Description	Facility	Facility practices good housekeeping							
		Data Source	RCRA	summ	er inte	ern inspections					
Data Quality Indicator			good	Okay	Prob- lem	Issue	Issue:				
Pre	ecision	l			Х	Diffic	ult to define what "good housekeeping" consists of				
Ser	nsitivi	ty			Х	Same	as above				
Rej	presen	tativeness	Х			From	past survey but chosen randomly				
Co	mplete	eness	Х								
Bia	Bias				Х	Subje	ct to data collector's definition.				
Validation		Х									
Otl	ner iss	ue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page _1 of 3

ST	ATE	New Hamp	oshire		GI	ROUP	Underground Storage Tanks (USTs)				
#	1	Indicator Description	Facility	Facility operators have written tightness testing records for USTs							
		Data Source	Underg	ground	Storag	ge Tanl	k Program historic data and inspection results				
Da	ta Qu	ality Indicato	r good	Okay	Prob- lem	Issue	Issue:				
Pre	ecisio	1		Х		Possi	Possible variation in definition of acceptable written records				
Sei	nsitivi	ty	Х								
Re	presei	ntativeness	Х								
Co	mplet	eness	Х								
Bia	Bias		Х								
Validation		Х									
Otl	her iss	sue:									

#	2	Indicator Description	Gallon	Gallons of oil/gasoline reduced through leaking tank replacement							
		Data Source	Underg	Underground Storage Tank Program historic data and inspection results							
Data Quality Indicator			r good	Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsiti	vity	Х								
Re	pres	entativeness	Х								
Co	mpl	eteness		Х							
Bias			Х								
Va	Validation				Х	Difficult to measure "gallons not leaked" other than by modeling					
Ot	her i	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 2 of 3

ST	ATE	New Hamp	oshire		GR	OUP	Underground Storage Tanks (USTs)				
#	3	Indicator Description	Facility	acility has all registered tanks equipped with overfill protection							
		Data Source	Underg	ground	Storag	e Tanl	k Program historic data and response results				
Da	ita Q	ality Indicato	good	Okay	Prob- lem	Issue	:				
Pre	ecisio	n	X								
Sei	nsitiv	ity	X								
Re	prese	ntativeness	Х								
Co	mple	teness	Х								
Bia	Bias										
Va	Validation										
Ot	her is	sue:									

#	4	Indicator Description	Facility	Facility has SPCC Plan in place							
		Data Source	Histori	cal dat	a and I	nspections					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:					
Precision			Х		Could be issue with definition of SPCC Plan although PE stamp required						
Sei	nsitiv	vity	Х								
Re	prese	entativeness	Х								
Co	mple	eteness	Х								
Bias		Х									
Va	lidat	ion	Х								
Ot	her is	ssue:									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 3 of 3

ST	ATE	New Hamp	oshire		GR	ROUP	Underground Storage Tanks (USTs)
#	5	Indicator Description	Facility	y docui	ments r	UST inspections in writing	
			Histori	cal dat	a and i	nspect	ions
Da	ıta Qu	ality Indicato	r good	Okay	Prob- lem	Issue	:
Pre	ecisio	1	Х				
Sei	nsitivi	ty	Х				
Re	presei	ntativeness	Х				
Co	mplet	eness	Х				
Bia	Bias						
Va	Validation						
Ot	her iss	ue:					

#	6	Indicator Description	Facility	Facility has all tanks registered with Department of Environmental Services							
		Data Source	"One S	top" d	atabase	, site inspections and historical records					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsiti	vity	Х								
Re	pres	entativeness	Х								
Co	mpl	eteness	Х								
Bia	Bias		Х								
Va	Validation			Х		Only addresses facilities already registered in state system					
Ot	her i	ssue:									

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 1 of 3

ST	ATE	New Hamp	New Hampshire				Dental Facilities				
#	1	Indicator Description	Facility	Facility uses approved Amalgam Separator to recycle mercury							
		Data Source	Inspect	tions, s	urvey c	v data and historical data					
Da	Data Onality Indicator good Okay				Prob- lem	Issue					
Pre	ecisio	1	Χ								
Se	nsitivi	ty	Х								
Re	presei	ntativeness		Х							
Co	mplet	eness	X								
Bi	Bias										
Va	Validation										
Ot	her iss	sue:									

#	2	Indicator Description	-	Cacility has eliminated mercury amalgam fillings (switch to non-mercury estorative)							
		Data Source	Inspect	tions, s	urvey d	lata and historical data					
Data Quality Indicator			r good	Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsitiv	vity	Х								
Re	pres	entativeness		Х							
Co	mple	eteness	Х								
Bia	Bias										
Validation		Х									
Ot	her i	ssue:									

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet**

INDICATOR EVALUATION CHARTS cont. page 2 of 3

ST	ATE	New Hamp	New Hampshire				Dental Facilities					
#	3	Indicator Description	Facility	Facility has eliminated all X-ray waste (switched to digital radiography)								
		Data Source	Inspect	ions, s	urvey o	y data and historical data						
Da	Data Quality Indicator good Okay Pr len					Issue						
Pre	ecisio	n	Χ									
Sei	nsitivi	ty	Х									
Re	prese	ntativeness		Х								
Co	mplet	eness	Х									
Bia	Bias X											
Va	Validation X			Х		Facili	ty could "farm out" x-ray service – not real P2					
Ot	her iss	sue:										

#	4	Indicator Description	Facility	Facility recovers silver from spent X-ray solution							
		Data Source	Inspect	tions, s	survey o	lata and historical data					
Data Quality Indicator			good	Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsiti	vity	Х								
Re	pres	entativeness		Х							
Co	mpl	eteness	Х								
Bia	Bias										
Va	Validation										
Ot	her i	issue:									

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 3 of 3

ST	ATE	New Hamp	oshire		GR	ROUP	Dental Facilities					
#	5	Indicator Description	Facility waste	acility recycles waste amalgam or manages waste amalgam as hazardous vaste								
		Data Source	Inspect	ions, s	urvey c	lata ar	nd historical data					
Da	Data Quality Indicator good Okay Pla					Issue	:					
Pre	ecisio	n	Х									
Sei	nsitiv	ity	Х									
Re	prese	ntativeness		Х								
Co	mple	teness	Х									
Bia	Bias X											
Va	Validation X											
Ot	her is	sue:										

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 1 of 5

 STATE
 New Hampshire
 GROUP
 Auto Repair/Auto Body Facilities

#	1	Indicator Description	-	Facility has obtained EPA ID number from Department of Environmental ervices									
		Data Source	"One S	top" [Database	e, historical data, inspections							
Da	ita Q	Quality Indicator	good	Okay	Prob- lem	Issue:							
Pre	ecisio	on	Х										
Se	nsitiv	vity	Х										
Re	prese	entativeness	Х										
Co	Completeness												
Bia	Bias												
Va	lidat	ion	Х										

#	2	2 Indicator Description	Facility	Facility only uses EPA-approved Low VOC paint							
		Data Source	Historic	al data	a, inspe	ctions					
Data Quality Indicator			good	Okay	Prob- lem	Issue:					
Pre	Precision										
Sei	nsit	tivity	X								
Re	pre	esentativeness	X								
Co	Completeness										
Bia	Bias										
Va	lida	ation	X								

#	3	Indicator Description	Facility	Facility recycles (BTU recovery or Re-refining) used oil						
		Data Source	Historic	cal data	a, inspe	ctions				
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Pre	ecisio	on	X							
Sei	nsitiv	vity	Х							
Re	prese	entativeness	Х							
Co	mple	eteness	Х							
Bia	as		Х							
Va	Validation		Х							

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _2 of 5

						10 -					
ST	ATE	New Hamp	oshire			GROUP Auto Repair/Auto Body Facilities					
#	4	Indicator Description	Facility	y has c	ertified CFC technician & EPA-certified CFC evacuator						
		Data Source	pections								
Da	ta Qı	ality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	ecisio	n	Х								
Sei	nsitiv	ity	Х								
Re	prese	ntativeness	Х								
Co	mplet	teness	Х								
Bia	as		Х								
Va	lidati	on	Х								
Otl	her is	sue:									
#	5	Indicator Description	Facility	y recyc	cles an	ntifreeze					
		Data Source	inspect	inspections							
Da	ta Qı	ality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	ecisio	n	Х								
Sei	nsitiv	ity	Х								
Re	prese	ntativeness	Х								
Co	mplet	teness	Х								
Bia	as		Х								
Va	lidati	on	Х								
Otl	her is:	sue:									
#	6	Indicator Description	Hazard contair			andled/stored in a compliant manner (labels,					
		Data Source	Inspect	tions							
Da	ta Qı	ality Indicator	r good	Okay	Prob- lem	Issue:					
Precision		Х									
Sei	nsitiv	ity	Х								
Re	prese	ntativeness	Х								
Co	mplet	teness	Х								
Bia	ıs		Х								
Va	lidati	on		Х		Not confirmed by RCRA Inspectors					

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _3 of 5

STATE New Hamps		pshire			GROUP	Auto Repair/Auto Body Facilities	
Otl	ner is	ssue:					
#	7	Indicator Description	Spray	Booths	s utiliz	zed at auto	body shops
		Data Source	Inspecti	ons			
Da	ta Q	uality Indicato	r good	Okay	Prob- lem	Issue:	
Pre	ecisio	on		Х		Definiti	on of a spray booth
Sei	nsitiv	vity	Χ				
Re	prese	entativeness	Х				
Co	mple	eteness	Χ				
Bia	as		X				
Va	lidat	ion	Χ				
Otl	her is	ssue:					
#	8	Indicator Description	Solven	ts reco	overec	l/reused	
		Data Source	Inspec	tion/re	cords		
Da	ta Q	uality Indicato	r good	Okay	Prob- lem	Issue:	
Pre	ecisio	on		Х		Amount	s usually not determined with precision
Sei	Sensitivity		Χ				
Representativeness		Χ					
Completeness		Χ					
Bias		Χ					
Va	lidat	ion	Χ				
Otl	ner is	ssue:					

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 4 of 5

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities
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#	9	Indicator Description	HVLP Spray guns utilized								
		Data Source	Inspect	inspections							
Da	ta Q	uality Indicato	good	Okay	Prob- lem	Issue:					
Pre	ecisic	on	Х								
Sei	nsitiv	vity	Х								
Re	prese	entativeness	Х								
Co	mple	eteness	Х								
Bia	as		Х								
Va	lidati	ion	Х								
Otl	her is	sue:									
Otl	her is	sue:									
#	10	Indicator Description	Parts v	vashin	g done	with low VOC solvents in approved units					
		Data Source	Inspecti	ons							
Da	ta Q	uality Indicato	r good	Okay	Prob- lem	Issue:					
Pre	ecisic	on	X								
Sei	nsitiv	vity	X								
Re	Representativeness			Х		New requirements being implemented					
Co	Completeness		X								
Bia	as		Х								
Va	lidati	ion	X								
Otl	her is	ssue:									

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page _5 of 5

STATE	New Hampshire	GROUP	Auto Repair/Auto Body Facilities
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#	11	Indicator Description	Spill R	Spill Response Kits available						
		Data Source	Inspect	tions						
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Pre	Precision		Х							
Ser	nsitiv	ity	Х							
Rej	prese	ntativeness	Х							
Co	mplet	teness	Х							
Bia	ıs		Х							
Va	Validation		Х							
Otł	ner is:	sue:								

#12Indicator Description	Floor c	Floor drains sealed or registered/permitted						
Data Source	Inspec	tions/H	Historica	al data				
Data Quality Indicator	good	Okay	Prob- lem	Issue:				
Precision	Χ							
Sensitivity	Х							
Representativeness	Х							
Completeness	Х							
Bias	Х							
Validation	Х							
Other issue:								

NJ DEP - STATES' COMMON MEASURES PROJECT

Group and Indicator Packet

GROUP EVALUATION CHART:

STATE NJ	GROUP	Dental Ama	lgam	Would do	X Most Interested
Easier to Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to	Collect Good Data
Consideration	Co	mplexity of	Metrics		
Single Media		X		Multi Media	
Regulatory or Good Practices Only		X		Both Regulatory and	d Good Practices
Few requirements	Х			Many Requirements	3
Clear Cut Requirements	X			Subjective Requirer	nents
	Сог	nplexity of	Sector		
Similar Facilities	X			Diverse Facilities	
Small Universe		X		Large Universe	
	Prior E	xperience V	Vith Secto	r	
Existing Sector	X			New Sector	
Existing Data System			Х	No Data System	
Existing Common Definitions		X		No Common Defini	tions
Known Universe	X			Unknown Universe	
Existing Checklists		Х		No Checklists	
Historical Data		X		No Historical Data	
Similar requirements across states	X			Dissimilar requirem	ents across states
	Oth	er Consider	rations		
More Desirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirab	le/Harder Sector
Even distribution of facilities across states	X			Uneven distribution states	of facilities across
Important environmental concern	X			Lesser environment	al concern
Regulated by the states and EPA		X		State only sector	
Ability to link to an environmental outcome	X			Inability to link to a outcome	n environmental
Facilities are sophisticated about environmental regulation			Х	Facilities are unsopl environmental regul	
No language barriers	X			Language barriers	
Other (list:)					

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of 3

STATE NJ				(GROUP	DENTAL AMALGAM			
# 1	Indicator Description	Installatio	on of an	algam se	eparator				
	Data Source	New in	spectio	on resul	ts				
Data Quality Indicator good Okay Problem					Issue:				
Precision	1	Х			Yes or I	No Data			
Sensitivit	ty	Х			Yes or I	No Data			
Represen	ntativeness	Х			No histo	oric data, only new inspections			
Complete	eness	Х			Easy inf	o to collect at inspection			
Bias X					Amalga	m Separator identification training needed for inspectors			
Validation									
Other iss	ue:								

#	2	Indicator Description	The facility has an Amalgam Separator operator manual					
		Data Source	New in	spectio	on resul	ts		
Da	ta Q	Quality Indicator	good	Okay	Prob- lem	Issue:		
Pre	ecisio	on				Yes or No Data		
Sei	nsitiv	vity				Yes or No Data		
Rej	pres	entativeness				No historic data, only new inspections		
Co	mple	eteness				Easy info to collect at inspection		
Bia	as					Amalgam Separator identification training needed for inspectors		
Va	lidat	ion						
Otl	her i	ssue:						

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 2 of 3

STATE NJ

GROUP Dental Amalgam

#	3	Indicator Description	The facili	The facility is operating in accordance with the amalgam separator operator manual					
		Data Source	New in	spectio	on resul	ts			
Da	ta Q	Quality Indicator	r good	Okay	Prob- lem	Issue:			
Pre	ecisio	on				This measurement is a partially subjective			
Sei	nsitiv	vity				There can be varying grades of compliance			
Re	prese	entativeness				No historic data, only new inspections			
Co	Completeness					Easy info to collect at inspection			
Bias			Training in amalgam separator performance parameters required						
Validation									

#	4	Indicator Description	Pounds of amalgam separator waste collected							
		Data Source	Data Su	Data Submittal to the Environmental Agency						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision					Must weigh collected waste				
Se	nsiti	vity				Easy to measure				
Re	pres	entativeness				Relies on generator to measure				
Co	Completeness					Easy info to be submitted to the environmental agency				
Bia	Bias					Relies on generator to measure				
Va	Validation			Validation			Field review of records can be conducted to ensure values are within expected norms.			

#	5	Indicator Description	Pounds of mercury removed from wastewater discharges							
		Data Source	Data Su	Data Submittal to the Environmental Agency						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision					Based on generator info and estimate of mercury contained in amalgam waste				
Sei	Sensitivity					Mercury content may be small compared to total Amalgam waste collected				
Re	pres	entativeness				Relies on generator to measure				
Co	Completeness					Easy info to be submitted to the environmental agency				
Bia	Bias					Relies on generator to measure				
Va	Validation									

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet INDICATOR EVALUATION CHARTS cont. page 3 of 3

STATE NJ				Dental Amalgam	
#	6	Indicator Description	Proper container for	amalgam w	aste
Data Source Data Submittal to t			Data Submittal to t	he Enviro	nmental Agency

Data Quality Indicator	good	Okay	Prob- lem	Issue:
Precision				Not leaking with lid
Sensitivity				Yes or No answer
Representativeness				No historic data, only new inspections
Completeness				Easy info to collect at inspection
Bias				Train inspectors on good vs bad containers
Validation				

#	7	Indicator Description	Proper label for amalgam waste containers				
Data Source Data Submitt				ıbmitta	al to the	Environmental Agency	
Dat	Data Quality Indicator			Okay	Prob- lem	Issue:	
Pre	Precision					Container content information and accumulation start date	
Sen	Sensitivity					Yes or No answer	
Rep	Representativeness					No historic data, only new inspections	
Cor	Completeness		ess			Easy info to collect at inspection	
Bias						Train inspectors on label requirements	
Val	idati	ion					

#	8	8	Indicator Description	Record of amalgam waste disposal					
Data Source Data Submittal to the					ıbmitta	al to the	Environmental Agency		
Da	Data Onality Indicator good Okay .			Okay	Prob- lem	Issue:			
Pre	Precision						Amalgam waste records kept by generator.		
Sei	nsit	tivi	ity				Yes or No answer		
Re	Representativeness					No historic data, only new inspections			
Co	omp	plet	teness				Easy info to collect at inspection		
Bia	Bias					Train inspectors amalgam waste record keeping requirements.			
Va	Validation								
Ot	Other issue:								

STATES' COMMON MEASURES PROJECT GROUP PREFERENCE CHECKLIST

STATE: New Jersey Check if Also Check if									
GROUP	Check if your state would do this group	Check if your state would not do this group	this is a group your state is very interested in doing						
Small quantity hazardous waste generators									
Large quantity hazardous waste generators									
TSDFs									
Air Operating Permits		X							
Marinas									
Soils Recyclers									
Underground Storage Tanks									
Colleges and Universities									
Hospitals									
Photo Processors									
Commercial Offsite HW Recyclers									
Printers									
Stage 2 Programs									
NPDES Majors		X							
NPDES Minors		Х							
Active Landfills		Х							
Exterior Lead Paint Contractors									
K-12 Schools									
Auto Salvage / Junk Yards		Х							
Dry Cleaners		Х							
Auto body	Х								
Auto repair	Х								
Dental clinics			Х						
Used oil handlers and recyclers									
Electronics recyclers									
Furniture strippers									
Radiator repair									
Metal fabricators									
Spray booth operators									
Platers		Х							
Boat builders		Х							
Small automotive touch up operations	X								
Portable minor air sources eg. wood chippers, stump grinders)	X								
Municipal operations: POTWS, DPWs, Water Uitlities									

NYS DEC - STATES' COMMON MEASURES PROJECT

Groups and Indicators Packet

STATE	New York	GROUP	HW Smal	l Quantity G	enerators	_x_ Would do	Most Interested	
Easier to	Collect Good D	ata	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consider	ration		Co	mplexity of	Metrics			
Single Me	edia		х			Multi Media		
Regulator	y or Good Practice	es Only		х		Both Regulatory and	Good Practices	
Few requi	rements			х		Many Requirements		
Clear Cut	Requirements			х		Subjective Requirem	ents	
			Cor	mplexity of	Sector			
Similar Fa	acilities				х	Diverse Facilities		
Small Uni	verse				х	Large Universe		
			Prior E	xperience V	Vith Sector	r		
Existing S	lector			Х		New Sector		
Existing D	Data System				х	No Data System		
Existing C	Common Definition	15		x		No Common Definit	ions	
Known U	niverse			x		Unknown Universe		
Existing C	Checklists		x			No Checklists		
Historical	Data			x		No Historical Data		
Similar re	quirements across	states		x		Dissimilar requirements across states		
			Oth	er Conside	rations	1		
More De	sirable/Easier S	ector	Most desirable	Somewhat desirable	Less desirable	Less Desirable	e/Harder Sector	
Even distr states	ibution of facilitie	s across		x		Uneven distribution states	of facilities across	
Important	environmental con	ncern		х		Lesser environmenta	l concern	
Regulated	by the states and	EPA	х			State only sector		
Ability to outcome	link to an environ	mental		х		Inability to link to an outcome	environmental	
Facilities are sophisticated about environmental regulation			х		Facilities are unsoph environmental regula			
No langua	ge barriers			х		Language barriers		
Other (list	::)							

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet INDICATOR CHARTS**

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ST	ATE	New York			GR	ROUP Hazardous Waste Small Quantity Generators				
#	1	Indicator Description	The facil	The facility has made a HW determination.						
	Da	ta Source	New insp	New inspection results or historic data						
Da	Data Quality Indicator			Okay	Prob -lem	Issue	:			
Pre	ecisio	n	x			No is	sue if noncompliance threshold is clearly defined.			
Sei	Sensitivity					Sensitivity is not an issue because of yes / no answers				
Re	Representativeness					becau popul	, if new data. Potential problem if historic data is used see SQGs that were inspected may not represent random ation (In general, SQGs historically been inspected due to laints or some suspected problems at facility.			
Co	mple	teness	x			Easy	to gather complete information for every inspection			
Bia	Bias						d be okay, provided proper training is given, if new ctions.			
Va	Validation x				_		d be okay, provided proper training is given, if new ctions.			
Ot	her is	sue:								

#	2	Indicator Description	The facil	The facility has made appropriate HW generator classification as an SQG.					
	Da	ta Source	Inspectio	n result	s on file	and/or new data			
Da	ita Q	uality Indicator	good	Okay	Prob- lem	Issue:			
Pre	Precision					Same as #1			
Ser	nsitiv	vity	х			Same as #1			
Re	prese	entativeness	х			Same as #1			
Co	mple	eteness	х			Same as #1			
Bia	Bias					Same as #1			
Va	Validation					Same as #1			
Otl	her is	ssue:							

Groups and Indicators Packet

INDICATOR CHARTS cont. page 2 of 5

STATE	New York	GROUP	Hazardous Waste Small Quantity Generators
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# 3 Indicator Description	Facility	Facility did not exceed the timeliness thresholds for hazardous waste storage.					
Data Source	Same as	Indicat	or #1				
Data Quality Indicator	good	Okay	Prob- lem	Issue:			
Precision	Х			Same as indicator #1			
Sensitivity	X			Same as indicator #1			
Representativeness	Х			Same as indicator #1			
Completeness	Х			Same as indicator #1			
Bias	х			Same as indicator #1			
Validation	Х			Same as indicator #1			
Other issue:							

#	4	Indicator Description	•	Facility has provided proper waste handling and emergency procedures training to employees.						
	Da	ita Source	Same as	Indicat	or #1					
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pr	Precision					Same as indicator #1				
Se	nsiti	vity	х			Same as indicator #1				
Re	pres	entativeness	х			Same as indicator #1				
Сс	omple	eteness	х			Same as indicator #1				
Bi	Bias					Same as indicator #1				
Va	Validation					Same as indicator #1				
Ot	her i	ssue:								

#	5	Indicator Description	All haza areas).	All hazardous waste containers are properly labeled (for both accumulation and storage areas).							
	Data Source		Same as	Same as indicator #1							
Da	Data Quality Indicator			good Okay Prob- lem Issue:							
Pre	Precision		х			Provided noncompliance threshold is clearly defined (e.g. ANY container with no label, label that is incomplete, illegible or falling off)					
Se	Sensitivity		х			Same as indicator #1					
Re	Representativeness		х			Same as indicator #1					

Groups and Indicators Packet

INDICATOR CHARTS cont. page 3of 5

STATE	New York		GR	OUP	Hazardous Waste Small Quantity Generators
Complete	ness	X		Same	e as indicator #1
Bias	Bias Validation			Same	e as indicator #1
Validation				Same	e as indicator #1
Other issue:					

#	6	Indicator Description	All haza areas).	All hazardous waste containers are in good condition (for both accumulation and storage areas).					
	Da	ata Source	Same as	indicat	or #1				
Da	Data Quality Indicator		r good	Okay	Prob- lem	Issue:			
Pre	Precision			Х		Same as indicator #5, also "good condition" can be somewhat subjective			
Sei	nsiti	vity	х			Same as indicator #1			
Re	pres	entativeness	х			Same as indicator #1			
Co	mpl	eteness	х			Same as indicator #1			
Bia	Bias					Same as indicator #1			
Va	Validation					Same as indicator #1			
Otl	Other issue:								

#	7	Indicator Description	All haza	All hazardous waste containers are closed (both accumulation and storage areas).						
	Data Source		Same as Indicator #1							
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Precision			Х			No issue. Good precision, yes/no answer.				
Se	Sensitivity					No issue, yes/ no answer				
Re	prese	entativeness	Х			Same as Indicator #1.				
Co	mple	eteness	Х			Easy to gather complete information for every inspection				
Bias			Х			No bias, yes/no answer.				
Validation						Same as indicator #1				
Ot	her is	ssue:								

Groups and Indicators Packet

INDICATOR CHARTS cont. page 4 of 5

 STATE
 New York
 GROUP
 Hazardous Waste Small Quantity Generators

#	8	Indicator Description		For Facilities located over sole source aquifers, containers storage is within secondary containment areas if more than 185 gallons are accumulated for storage. – For New York Only						
	Da	ata Source	Same as	Same as Indicator #1						
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision		х			Same as Indicator #1.				
Sei	nsiti	vity	х			No issue, yes/ no answer.				
Re	pres	entativeness	Х		Same as Indicator #1.					
Co	mple	eteness	х			Easy to gather complete information for every inspection.				
Bia	Bias		Х			No bias, yes/no answer.				
Va	Validation					Same as indicator #1				
Ot	her i	ssue:								

#	9	Indicator Description		The facility has posted emergency coordinator names and telephone numbers, fire department telephone numbers, locations of fire alarms and extinguishers and evacuation routes.					
	Da	ata Source	Same as	Indicat	or #1				
Data Quality Indicator			r good	Okay	Prob- lem	Issue:			
Pr	Precision					Same as indicator #1			
Se	Sensitivity					Same as indicator #1			
Re	pres	entativeness	х	Same as indicator #1		Same as indicator #1			
Сс	omple	eteness	X			Same as indicator #1			
Bias			X			Same as indicator #1			
Validation						Same as indicator #1			
Ot	her is	ssue:							

#	10	Indicator Description		The facility manifested all hazardous wastes to an authorized TSD using a licensed ransporter.								
	Da	ta Source	Same as indicator #1									
Da	Data Quality Indicator		good	Okay	Prob- lem	Issue:						
Pre	Precision		X			Same as indicator #1						
Se	Sensitivity		X			Same as indicator #1						
Re	Representativeness		X			Same as indicator #1						

Groups and Indicators Packet

INDICATOR CHARTS cont. page 5 of 5

STATE	ATE New York		GRO	OUP	Hazardous Waste Small Quantity Generators				
Completeness X					Same as indicator #1				
Bias X				Same as indicator #1					
Validation				Same as indicator #1					
Other issue:									

#	11	Indicator Description	The faci	The facility has made arrangements with local authorities.							
	Da	ata Source	Same as	Same as Indicator #1							
Data Quality Indicator			good	Okay	Prob- lem	Issue:					
Pre	Precision					Same as indicator #1					
Se	Sensitivity					Same as indicator #1					
Re	prese	entativeness	Х			Same as indicator #1					
Co	mple	eteness	х			Same as indicator #1					
Bi	Bias					Same as indicator #1					
Va	Validation					Same as indicator #1					
Ot	her is	ssue:									

#	12	Indicator Description									
	Da	ta Source	Same as	Same as Indicator #1							
Da	ita Qi	uality Indicator	good	Okay	Prob- lem	Issue:					
Pre	Precision					Same as indicator #1					
Se	nsitiv	ity	X			Same as indicator #1					
Re	prese	ntativeness	X			Same as indicator #1					
Co	mple	teness	Х			Same as indicator #1					
Bia	Bias					Same as indicator #1					
Va	Validation					Same as indicator #1					
Ot	her is	sue:									

Groups and Indicators Packet:

STATE	New York	GROUP	Auto Body	y Shops (CES	SQGs)	Would do	_x_ Most Interested	
Easier to	Collect Good Da	ta	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consider	ration		Co	mplexity of	Metrics			
Single Me	dia			Х		Multi Media		
Regulatory	y or Good Practices	Only	x			Both Regulatory and	Good Practices	
Few requir	rements			х		Many Requirements		
Clear Cut	Requirements			х		Subjective Requirem	ents	
			Cor	nplexity of	Sector			
Similar Fa	cilities		X			Diverse Facilities		
Small Univ	verse				х	Large Universe		
			Prior E	xperience V	Vith Sector	r		
Existing Sector				х		New Sector		
Existing D	Data System				х	No Data System		
Existing C	Common Definitions		х		No Common Definit	ions		
Known Ur	niverse			x		Unknown Universe		
Existing C	Checklists		x			No Checklists		
Historical	Data				х	No Historical Data		
Similar rec	quirements across s	tates		х		Dissimilar requirements across states		
			Oth	er Consider	rations			
More Des	sirable/Easier Sec	ctor	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distri states	ibution of facilities	across		х		Uneven distribution states	of facilities across	
Important	environmental cond	cern		х		Lesser environmenta	l concern	
Regulated	by the states and E	PA	x			State only sector		
Ability to link to an environmental outcome				х		Inability to link to an outcome	environmental	
Facilities are sophisticated about environmental regulation			х		Facilities are unsoph environmental regula			
No langua	ge barriers			х		Language barriers		
Other (list:	:)							

STATES' COMMON MEASURES PROJECT **Groups and Indicators Packet: INDICATOR CHARTS**

page 1 of 2

ST	ATE	New York S	tate	GRO		OUP	UP Auto Body Shops (CESQGS)				
#	1	Indicator Description	The facil	ity has	made a	HW de	termination.				
	Dat	a Source	New insp	pection	results o	or histo	ric data				
Da	Data Quality Indicator good Okay				Prob -lem	Issue	Issue:				
Precision x			х			No is:	No issue if noncompliance threshold is clearly defined.				
Sei	nsitivi	ity	х			Sensi	ivity is not an issue because of yes / no answers				
Representativeness X					becau popul	Good, if new data. Potential problem if historic data is used because previously inspected facilites may not represent random population (In general, facilities have historically been inspected due to complaints or some suspected problems at facility.)					
Co	Completeness X					Easy to gather complete information for every inspection					
Bias X						Should be okay, provided proper training is given, if new inspections.					
Validation X						Should be okay, provided proper training is given, if new inspections.					

#	2	Indicator Description	The facil	ity has a	made app	propriate HW generator classification as a CESQG.
	Da	ata Source	Inspectio	n result	s on file a	and/or new data
Da	ta Q	Quality Indicator	good	Okay	Prob- lem	Issue:
Pre	Precision					Same as #1
Ser	nsiti	vity	х			Same as #1
Re	pres	entativeness	х			Same as #1
Co	Completeness					Same as #1
Bia	Bias		Х			Same as #1
Va	lidat	tion	Х			Same as #1

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR CHARTS cont. page 2 of 2

ST	ATE	New York	v York			OUP Auto Body Shops					
#	2	Indicator Description	Facility of	Facility did not exceed the quantity thresholds for hazardous waste accumulation.							
Data Source Inspection results on file ar						and/oi	new data				
Da	Data Quality Indicator good Okay			Prob- lem	Issue:						
Pre	cisio	n	x			Same as #1					
Ser	nsitiv	ity	х			Sam	e as #1				
Rej	prese	ntativeness	х			Sam	e as #1				
Co	mple	teness	х			Sam	e as #1				
Bias		Х			Sam	e as #1					
Va	Validation		x			Sam	e as #1				

#	3	Indicator Description		All hazardous waste containers are labeled, in good condition, and closed. (<i>not a regulatory requirement if CESQG</i>)							
	Da	ita Source	Same as indicator #1								
Da	Data Quality Indicato		r good	Okay	Prob- lem	Issue:					
Precision		х			Same as indicator #1, also "good condition" can be somewhat subjective.						
Se	nsitiv	vity	х			Same as indicator #1					
Re	prese	entativeness	х			Same as indicator #1					
Completeness			х			Same as indicator #1					
Bias		х			Same as indicator #1						
Validation			Х			Same as indicator #1					

#	4	Indicator Description	The faci	lity has	ensured	delivery of HW to an authorized TSD.				
	D	ata Source	Same as	Same as Indicator #1						
Da	ta (Quality Indicato	r good	Okay	Prob- lem	Issue:				
Pre	Precision		х			No issue. Good precision, yes/no answer.				
Sei	nsiti	vity	Х			No issue, yes/ no answer.				
Re	pres	sentativeness	х			Same as Indicator#1.				
Co	Completeness		х			Easy to gather complete information for every inspection				
Bia	Bias		х			No bias, yes/no answer.				
Validation						Same as indicator #1				

RI DEM - STATES' COMMON MEASURES PROJECT Group and Indicator Packet

STATE Rhode Island	GROUP	Small Quantity	/ Generators	Would do	_ <u>X</u> Most Interested
Easier to Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to	Collect Good Data
Consideration	Co	mplexity of	Metrics		
Single Media	X			Multi Media	
Regulatory or Good Practices Only	X			Both Regulatory and	Good Practices
Few requirements		X		Many Requirements	
Clear Cut Requirements		Х		Subjective Requirem	nents
	Cor	mplexity of	Sector		
Similar Facilities			X	Diverse Facilities	
Small Universe			X	Large Universe	
	Prior E	xperience V	Vith Sector	r	
Existing Sector			X	New Sector	
Existing Data System		Х		No Data System	
Existing Common Definitions		Х		No Common Definit	ions
Known Universe	X			Unknown Universe	
Existing Checklists			X	No Checklists	
Historical Data	X			No Historical Data	
Similar requirements across states		Х		Dissimilar requireme	ents across states
	Oth	er Conside	rations		
More Desirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector
Even distribution of facilities across states		Х		Uneven distribution states	of facilities across
Important environmental concern		Х		Lesser environmenta	al concern
Regulated by the states and EPA	X			State only sector	
Ability to link to an environmental outcome		Х		Inability to link to an outcome	n environmental
Facilities are sophisticated about environmental regulation		Х		Facilities are unsoph environmental regula	
No language barriers		X		Language barriers	
Other (list:)					

Group and Indicator Packet

ST	ATE	Rhode Island			GRO	OUP	Hazardous Waste Small Quantity Generators			
#		Indicator Description	Nev	v Sec	tor, in	r, indicators not established				
		Data Source								
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	ecisior	l								
Sei	nsitivi	ty								
Re	presen	itativeness								
Co	mplete	eness								
Bia	Bias									
Va	Validation									
Ot	Other issue:									

Group and Indicator Packet

STATE	Rhode Island	GROUP	Large Quanti	ty Generators	<u>X</u> Would do	Most Interested
	Collect Good Data	Easier	Somewhat difficult	More difficult		Collect Good Data
Consider	ation	Co	mplexity of	Metrics		
Single Me	dia	X			Multi Media	
Regulatory	y or Good Practices Only	X			Both Regulatory an	d Good Practices
Few requir	rements		X		Many Requirement	s
Clear Cut	Requirements		X		Subjective Require	ments
		Сог	nplexity of	Sector		
Similar Fa	cilities			Х	Diverse Facilities	
Small Uni	verse		X		Large Universe	
		Prior E	xperience V	Vith Sector		
Existing S	ector			Х	New Sector	
Existing D	ata System		Х		No Data System	
Existing C	ommon Definitions		Х		No Common Defin	itions
Known Ur	niverse	X			Unknown Universe	
Existing C	hecklists			Х	No Checklists	
Historical	Data	X			No Historical Data	
Similar red	quirements across states		X		Dissimilar requirem	nents across states
		Oth	er Conside	rations		
More Des	sirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	le/Harder Sector
Even distri states	ibution of facilities across		Х		Uneven distribution states	n of facilities across
Important	environmental concern		Х		Lesser environment	tal concern
Regulated	by the states and EPA	X			State only sector	
Ability to outcome	link to an environmental		X		Inability to link to a outcome	an environmental
Facilities are sophisticated about environmental regulation			X		Facilities are unsop environmental regu	
No langua	ge barriers		X		Language barriers	
Other (list	:)					

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _1_

STA	ATE	Rhode Island			GRC	OUP	Hazardous Waste Large Quantity Generators					
#		Indicator Description	Ne	New Sector, indicators not established								
		Data Source										
Data Quality Indicator			good	Okay	Prob- lem	Issue:						
Prec	Precision											
Sen	sitivit	у										
Rep	resent	tativeness										
Con	nplete	eness										
Bias	Bias											
Vali	Validation											
Oth	er issu	ie:										

Group and Indicator Packet:

STATE	Rhode Island	GROUP	Marinas		_ <u>X</u> Would do	Most Interested
Easier to	Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data
Consider	ration	Co	mplexity of	Metrics		
Single Me	dia		Х		Multi Media	
Regulator	y or Good Practices Only				Both Regulatory and	Good Practices
Few requir	rements		X		Many Requirements	
Clear Cut	Requirements		X		Subjective Requirem	ents
		Cor	nplexity of	Sector		
Similar Fa	cilities	Х			Diverse Facilities	
Small Uni	verse		Х		Large Universe	
		Prior Ex	xperience V	Vith Sector	r	
Existing S	ector			X	New Sector	
Existing D	Pata System			X	No Data System	
Existing C	common Definitions				No Common Definit	ions
Known Ur	niverse	Х			Unknown Universe	
Existing C	hecklists		Х		No Checklists	
Historical	Data		Х		No Historical Data	
Similar red	quirements across states		Х		Dissimilar requirements across states	
		Oth	er Conside	rations		
More Des	sirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector
Even distr states	ibution of facilities across		X		Uneven distribution states	of facilities across
Important	environmental concern		Х		Lesser environmenta	l concern
Regulated	by the states and EPA	Х			State only sector	
Ability to outcome	link to an environmental		X		Inability to link to an outcome	environmental
Facilities are sophisticated about environmental regulation			X		Facilities are unsoph environmental regula	
No langua	ge barriers		Х		Language barriers	
Other (list	:)					

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _1_

STATE	Rhode Island			GRO	OUP	Marinas					
#	Indicator Description	Ne	New Sector, indicators not established								
	Data Source										
Data Qu	good	Okay	Prob- lem	Issue:							
Precision	Precision										
Sensitivit	y										
Represen	tativeness										
Complete	eness										
Bias											
Validation											
Other iss	ue:										

Group and Indicator Packet:

STATE	Rhode Island	GROUP	Underground S	Storage Tanks	Would do	<u>X</u> Most Interested	
Easier to	Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consider	ration	Co	mplexity of	Metrics			
Single Me	dia	Х			Multi Media		
Regulator	y or Good Practices Only			X	Both Regulatory and	Good Practices	
Few requir	rements			X	Many Requirements		
Clear Cut	Requirements		X		Subjective Requirem	ients	
		Co	mplexity of	Sector			
Similar Fa	cilities	Х			Diverse Facilities		
Small Uni	verse			X	Large Universe		
		Prior E	xperience V	Vith Sector	r		
Existing S	ector	Х			New Sector		
Existing D	Pata System	Х			No Data System		
Existing C	common Definitions	X			No Common Definit	ions	
Known Ur	niverse	Х			Unknown Universe		
Existing C	hecklists	X			No Checklists		
Historical	Data	X			No Historical Data		
Similar red	quirements across states		X		Dissimilar requirements across states		
		Oth	er Conside	rations	•		
More Des	sirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distr states	ibution of facilities across	X			Uneven distribution states	of facilities across	
Important	environmental concern	X			Lesser environmenta	l concern	
Regulated	by the states and EPA	X			State only sector		
Ability to outcome	link to an environmental	X			Inability to link to an outcome	environmental	
Facilities are sophisticated about environmental regulation			Х		Facilities are unsoph environmental regula		
No langua	ge barriers		Х		Language barriers		
Other (list	:)						

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _3_

STATE	Rhode Island	d		GRO	UP	Underground Storage Tanks					
# 1	Indicator Description	Facility h	Facility has a leak detection system in place for each tank								
	Data Source	Inspectio	n or auc	lit results	5						
Data Qu	Data Quality Indicator good			Prob- lem	Issu	ie:					
Precision		X			Con	npliance with requirement is clearly defined					
Sensitivi	ty	X			Not	an issue, because of Yes/No answer					
Represen	itativeness	Х			Goo	od for new inspections or audits					
Complete	eness	X				y to gather information at inspection or audit, with review verification of documentation as warranted					
Bias		X			Sho	uld be no bias with trained inspector					
Validatio	n	Х				y to validate at inspection or audit, with review and fication of documentation as warranted					
Other iss	ue:										

#	2	Indicator Description	Facility h	Facility has records of the last thirty-six (36) months of inventory control						
		Data Source	Inspectio	n or au	dit results	;				
Data Quality Indicator		good	Okay	Prob- lem	Issue:					
Precision		X			Same as # 1					
Sei	nsiti	vity	X			Same as # 1				
Re	pres	entativeness	X			Same as # 1				
Co	mpl	eteness	X			Same as # 1				
Bia	Bias		Х			Same as # 1				
Va	lidat	tion	Х			Same as # 1				
Ot	her i	ssue:								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>2</u> of <u>3</u>

STATE Rhode Island GROUP

ROUP Underground Storage Tanks

#	3	Indicator Description	•	Facility has records of passing Leak Line Detection tests conducted annually for the past three (3) years						
		Data Source	Inspectio	on or au	dit result	s				
Data Quality Indicator		good	Okay	Prob- lem	Issue:					
Pre	ecisio	on	Х			Same as # 1				
Sei	nsitiv	vity	Х			Same as # 1				
Re	prese	entativeness	Х			Same as # 1				
Co	mple	eteness	Х			Same as # 1				
Bias		Х			Same as # 1					
Va	lidat	ion	Х			Same as # 1				
Otl	her is	ssue:								

#	4	Indicator Description	Facility	Facility sumps are free of water, debris, and product						
		Data Source	Inspectio	on or au	dit result	S				
Data Quality Indicator		good	Okay	Prob- lem	Issue:					
Pre	ecisi	ion	Х			Same as # 1				
Sei	nsiti	ivity	Х			Same as # 1				
Re	pres	sentativeness	Х			Same as # 1				
Co	mpl	leteness	Х			Easy to gather information at inspection or audit				
Bia	as		Х			Same as # 1				
Va	lida	tion	Х			Easy to gather information at inspection or audit				
Otl	her i	issue:								

#	5	Indicator Description	The disp	ensers a	are equip	ped with a pan or a sump					
		Data Source	Inspectio	Inspection or audit results							
Data Quality Indicator		good	Okay	Prob- lem	Issue:						
Pre	ecisi	on	Х			Same as # 1					
Se	nsiti	vity	Х			Same as # 1					
Re	pres	entativeness	Х			Same as # 1					
Co	Completeness		Х			Same as # 4					
Bia	as		Х			Same as # 1					
Va	lida	tion	Х			Same as # 4					

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>3</u> of <u>3</u>

 STATE
 Rhode Island
 GROUP
 Underground Storage Tanks

#	6	Indicator Description	The disp	The dispenser's pan or sumps are free of water, debris, and product						
		Data Source	Inspectio	on or au	dit result	S				
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	ecisio	on	Х			Same as # 1				
Sei	nsiti	vity	X			Same as # 1				
Re	pres	entativeness	X			Same as # 1				
Co	mple	eteness	X			Same as # 4				
Bia	as		Х			Same as # 1				
Va	lidat	tion	Х			Same as # 4				

#	7	Indicator Description	The faci	The facility has records of groundwater monitoring well checks for the past three (3) years inspection or audit results						
		Data Source	Inspectio	on or au	dit result	S				
Da	Data Quality Indicator		r good	Okay	Prob- lem	Issue:				
Pre	ecisi	ion	Х			Same as # 1				
Sei	nsiti	ivity	Х			Same as # 1				
Re	pres	sentativeness	Х			Same as # 1				
Co	mpl	leteness	Х			Same as # 1				
Bias		Х			Same as # 1					
Validation		Х			Same as # 1					

#	8	Indicator Description	The Stage 1 system is inspected on a weekly basis						
		Data Source	Inspectio	on or au	dit result	S			
Data Quality Indicator good			Okay	Prob- lem	Issue:				
Pre	Precision					Same as # 1			
Sei	nsiti	vity	X			Same as # 1			
Re	pres	entativeness	X			Same as # 1			
Co	mpl	eteness	Х			Same as # 1			
Bia	Bias					Same as # 1			
Validation			Х			Same as # 1			
Ot	her i	ssue:							

Group and Indicator Packet GROUP EVALUATION CHART:

STATE Rhode Island	GROUP	Stage 2 Pro	grams	Would do	_ <u>X_</u> Most Interested
Easier to Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to O	Collect Good Data
Consideration	Co	mplexity of	Metrics		
Single Media	Х			Multi Media	
Regulatory or Good Practices Only			X	Both Regulatory and	Good Practices
Few requirements		Х		Many Requirements	
Clear Cut Requirements		Х		Subjective Requirem	nents
	Сог	mplexity of	Sector		
Similar Facilities	Х			Diverse Facilities	
Small Universe			X	Large Universe	
	Prior E	xperience V	Vith Sector	r	
Existing Sector	Х			New Sector	
Existing Data System	X			No Data System	
Existing Common Definitions	X			No Common Definit	ions
Known Universe	Х			Unknown Universe	
Existing Checklists	X			No Checklists	
Historical Data	X			No Historical Data	
Similar requirements across states		Х		Dissimilar requireme	ents across states
	Oth	er Conside	rations		
More Desirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector
Even distribution of facilities across states	X			Uneven distribution states	of facilities across
Important environmental concern	Х			Lesser environmenta	l concern
Regulated by the states and EPA	X			State only sector	
Ability to link to an environmental outcome	X			Inability to link to ar outcome	n environmental
Facilities are sophisticated about environmental regulation		Х		Facilities are unsoph environmental regula	
No language barriers		Х		Language barriers	
Other (list:)					

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _1_

STATE Rhode Island		1		GROUP		Stage 2 Programs			
# 1 Documentation of the Stage II system training is maintained at the facility									
# I Description Description Data Source Inspection or audit results									
Data Quality Indicator good Okay			Okay	Prob- lem	Issu	Issue:			
Precision		X			Compliance with requirement is clearly defined				
Sensitivity		Х			Not an issue, because of Yes/No answer				
Represen	tativeness	Х			Good for new inspections or audits				
Complete	eness	Х			-	y to gather information at inspection or audit, with review verification of documentation as warranted			
Bias		Х			Sho	uld be no bias with trained inspector			
Validation		X			-	y to validate at inspection or audit, with review and fication of documentation as warranted			
Other issued	ue:								

#	2	Indicator Description	The Stage II system is inspected on a weekly basis					
		Data Source	Inspectio	n or au	dit results			
Data Quality Indicator			good	Okay	Prob- lem	Issue:		
Precision			X			Same as # 1		
Sensitivity			X			Same as # 1		
Re	pres	sentativeness	X			Same as # 1		
Co	mpl	leteness	X			Same as # 1		
Bias			Х			Same as # 1		
Validation			Х			Same as # 1		
Otl	her i	issue:						

Group and Indicator Packet

STATE Rhode Island	GROUP	Exterior Lead Pa	int Contractors	Would do	_X_Most Interested	
Easier to Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consideration	Co	mplexity of	Metrics			
Single Media	X			Multi Media		
Regulatory or Good Practices Only	X			Both Regulatory and	Good Practices	
Few requirements	Х			Many Requirements		
Clear Cut Requirements	Х			Subjective Requirem	nents	
	Co	mplexity of	Sector			
Similar Facilities	Х			Diverse Facilities		
Small Universe		Х		Large Universe		
	Prior E	xperience V	Vith Sector	r		
Existing Sector	X			New Sector		
Existing Data System		X		No Data System		
Existing Common Definitions	Х			No Common Definitions		
Known Universe		X		Unknown Universe		
Existing Checklists	Х			No Checklists		
Historical Data		X		No Historical Data		
Similar requirements across states			Х	Dissimilar requirements across states		
	Oth	er Conside	rations			
More Desirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distribution of facilities across states	X			Uneven distribution states	of facilities across	
Important environmental concern	Х			Lesser environmenta	l concern	
Regulated by the states and EPA	Х			State only sector		
Ability to link to an environmental outcome		Х		Inability to link to an outcome	n environmental	
Facilities are sophisticated about environmental regulation			Х	Facilities are unsoph environmental regula		
No language barriers		Х		Language barriers		
Other (list:)						

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _2_

STATE Rhode Island		d		GR	OUP	Exterior Lead Paint Contractors				
# 1 Description removal) provides t					es the El	ral law, contractor renovating pre-1978 housing (including paint ne EPA pamphlet titled, " <i>Protect Your Family from Lead in Your</i> a signed statement of receipt of the pamphlet, before starting work				
		Data Source								
Da	ita Q	uality Indicato	good	Okay	Prob- lem	Issue	Issue:			
Precision		Х			Compliance with requirement is clearly defined					
Sensitivity		Х			Not an issue because of Yes/No answer					
Re	prese	entativeness	Х			Good	for new inspections or audits			
Co	mple	eteness		Х		May require later follow-up with contractor to produce signed statement				
Bi	as		X			Shou	ld be no bias with trained inspector			
Validation			Х		May require later follow-up with contractor to produce signed statement					
Other issue:						actor is not at fixed facility, must perform inspection or at an ongoing operation				

#	2	Indicator Description	Contractor uses only approved methods in removing exterior lead paint, or receive approval for use of alternative methods prior to use.				
		Data Source	Inspectio	on or au	dit result	S	
Da	ita Q	Quality Indicator	good	Okay	Prob- lem	Issue:	
Pre	ecisio	on	X			Same as # 1	
Sei	Sensitivity		Х			Not an issue because of approved methods specified in regulation, alternative methods require prior written approval from DEM	
Re	prese	entativeness	X			Same as # 1	
Co	mple	eteness	Х			Easy to gather data from inspection or audit of ongoing operation	
Bia	as		X			Same as # 1	
Va	Validation		Х			Easy to validate with inspection or audit at an ongoing operation	
Otl	her is	ssue:			X	Same as # 1	

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>2</u> of <u>2</u>.

STATE	Rhode Island	GROUP	Exterior Lead Paint Contractors

#	3	Indicator Description	fifty (50) fe	Contractor uses adequate ground cover, and removes or covers all toys, play equipment, and furnishings within fifty (50) feet of the paint removal project, erect vertical containment if paint debris is observed going beyond ground sheeting.						
		Data Source	Inspectio	on or au	dit results	3				
Data Quality Indicator good Okay Prob				Okay	Prob- lem	Issue:				
Precision			X			Same as # 1				
Sei	Sensitivity			X		Only issue may be observation by inspector of debris going beyond ground sheeting at the appropriate time				
Re	pres	entativeness				Same as # 1				
Co	mple	eteness				Same as # 2				
Bia	as					Same as # 1				
Validation						Same as # 2				
Otl	her i	ssue:				Same as # 1				

#	4	Indicator Description	Contractor complies with end of day inspection and storage requirements					
		Data Source	Inspectio	on or au	dit result	S		
Data Quality Indicator			good	Okay	Prob- lem	Issue:		
Precision		Х			Same as # 1			
Sei	Sensitivity			Х		Only issue may be actual observation of all requirements, may require a follow- up visit		
Re	pres	entativeness	Х			Same as # 1		
Co	mpl	eteness	Х			Same as # 2		
Bia	as		Х			Same as # 1		
Va	Validation			Х		Only issue may be actual observation of all requirements, may require a follow- up visit		
Other issue:				Х	Same as # 1			

Group and Indicator Packet GROUP EVALUATION CHART:

STATE Rhode Islam	d GROUP	Auto Salvage	z/Junkyards	Would do	_ <u>X_Most Interested</u>	
Easier to Collect Good	l Data Easier	Somewhat difficult	More difficult	More Difficult to (Collect Good Data	
Consideration	Co	omplexity of	Metrics			
Single Media			X	Multi Media		
Regulatory or Good Prac	tices Only		X	Both Regulatory and	Good Practices	
Few requirements			X	Many Requirements		
Clear Cut Requirements		Х		Subjective Requirem	ients	
	Co	omplexity of	Sector			
Similar Facilities	X			Diverse Facilities		
Small Universe	X			Large Universe		
	Prior I	Experience V	Vith Sector	r		
Existing Sector		Х		New Sector		
Existing Data System		Х		No Data System		
Existing Common Defini	tions	X		No Common Definitions		
Known Universe	X			Unknown Universe		
Existing Checklists		X		No Checklists		
Historical Data		X		No Historical Data		
Similar requirements acro	oss states	X		Dissimilar requirements across states		
	Ot	her Conside	rations			
More Desirable/Easier	r Sector Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distribution of facil states	ities across X			Uneven distribution states	of facilities across	
Important environmental	concern X			Lesser environmenta	l concern	
Regulated by the states a	nd EPA X			State only sector		
Ability to link to an enviroutcome	ronmental X			Inability to link to an outcome	environmental	
Facilities are sophisticate environmental regulation		X		Facilities are unsoph environmental regula		
No language barriers		X		Language barriers		
Other (list:)						

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of <u>3</u>

ST	ATE	Rhode Islan	d		GRO	UP	Auto Salvage/Junkyards		
#	1	Indicator Description	Facility h	Facility has submitted a list of authorized agents that are allowed to sign the manifest					
		Data Source	Inspectio	n or auc	lit results				
Da	ita Qi	ality Indicator	good	Okay	Prob- lem	Issue:			
Pre	ecisio	n	Х			Compliance with requirement is clearly defined			
Sensitivity		Х			Not an issue, because of Yes/No answer				
Re	prese	ntativeness	Х			Good for new inspections or audits			
Co	mple	teness	Х		· · · · · · · · · · · · · · · · · · ·		y to gather information at inspection or audit, with review verification of documentation as warranted		
Bia	as		X			Should be no bias with trained inspector			
Validation		Х			Easy to validate at inspection or audit, with review and verification of documentation as warranted				
Ot	her is	sue:							

#	2	Indicator Description	•	Facility has appropriate documentation or process knowledge that supports its hazardous waste determination for all waste streams						
		Data Source	Inspectio	on or au	dit results	3				
Data Quality Indicator			good	Okay	Prob- lem	Issue:				
Pre	Precision					Same as # 1				
Sei	nsiti	vity	X			Same as # 1				
Re	pres	entativeness	X			Same as # 1				
Co	mple	eteness	X			Same as # 1				
Bia	Bias					Same as # 1				
Va	Validation					Same as # 1				
Ot	her i	ssue:								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>2</u> of <u>3</u>

STATE Rhode Island

GROUP Auto Salvage/Junkyards

#	3	Indicator Description	Facility has appropriate documentation to show where waste is being shipped						
		Data Source	Inspectio	on or au	dit result	s			
Data Quality Indicator			good	Okay	Prob- lem	Issue:			
Precision			X			Same as # 1			
Sei	nsiti	vity	Х			Same as # 1			
Re	pres	entativeness	Х			Same as # 1			
Co	mple	eteness	Х			Same as # 1			
Bia	Bias		Х			Same as # 1			
Validation		Х			Same as # 1				
Ot	her i	ssue:							

#	4	Indicator Description		For satellite accumulation area storage, container is labeled with the words "Hazardous Waste" and the contents of the container						
		Data Source	Inspectio	on or au	dit result	S				
Da	nta Q	Quality Indicator	good	Okay	Prob- lem	Issue:				
Pre	Precision					Same as # 1				
Se	nsitiv	vity	X			Same as # 1				
Re	prese	entativeness	Х			Same as # 1				
Completeness			X			Same as # 1				
Bias			X			Same as # 1				
Va	alidat	ion	X			Same as # 1				

#	5	Indicator Description		All containers are kept closed when not in use, with bung plugs or covers in place and funnels in use only when needed					
		Data Source	Inspectio	on or au	dit result	S			
Da	Data Quality Indicator			Okay	Prob- lem	Issue:			
Pre	Precision					Same as # 1			
Se	nsitiv	vity	Х			Same as # 1			
Re	prese	entativeness	Х			Same as # 1			
Co	Completeness					Same as # 1			
Bia	Bias					Same as # 1			
Va	lidat	ion	Х			Same as # 1			

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>3</u> of <u>3</u>

STATE Rhode Island			GRO	OUP	Auto Salvage/Junkyards							
#	6	Indicator Description		Facility removes convenience light switches from vehicles								
		Data Source	e Inspectio	on or au	dit result	S						
Da	ata Q	Quality Indicat	tor good	Okay	Prob- lem	Issue	*:					
Pr	ecisi	on	Х			Same	Same as # 1					
Sensitivity X						Same as # 1						
Re	epres	entativeness	X			Same as # 1						
Co	ompl	eteness	Х			Same as # 1						
Bi	as		Х			Same as # 1						
Va	alidat	tion	Х			Same as # 1						
#	7	Indicator Description		All business activities that can cause a spill or leak are conducted on an impermeable surface where spills/leaks are cleaned up promptly								
	1]	Data Source Inspection or audit results										

Data Source	Inspecti	nspection or audit results						
Data Quality Indicator	good	Okay	Prob- lem	Issue:				
Precision	Х			Same as # 1				
Sensitivity	Х			Same as # 1				
Representativeness	Х			Same as # 1				
Completeness	Х			Same as # 1				
Bias	Х			Same as # 1				
Validation	Х			Same as # 1				

#	8	Indicator Description		Facility has a Stormwater Pollution Prevention Plan in place, in compliance with the Stormwater Multi-Sector General Permit					
		Data Source	Inspectio	on or au	dit result	S			
Data Quality Indicator good Okay				Okay	Prob- lem	Issue:			
Pre	ecisi	on	Х			Same as # 1			
Se	nsiti	vity	Х			Same as # 1			
Re	pres	entativeness	Х			Same as # 1			
Co	Completeness					Same as # 1			
Bias		Х			Same as # 1				
Va	lidat	tion	Х			Same as # 1			

Group and Indicator Packet GROUP EVALUATION CHART:

STATE Rhode Islan	d GR	OUP	Auto Body		Would do	<u>X</u> _Most Interested	
Easier to Collect Good	Data E	asier	Somewhat difficult	More difficult	More Difficult to C	Collect Good Data	
Consideration		Cor	mplexity of	Metrics			
Single Media				Х	Multi Media		
Regulatory or Good Pract	ices Only			Х	Both Regulatory and	Good Practices	
Few requirements				Х	Many Requirements		
Clear Cut Requirements					Subjective Requirem	ents	
		Cor	nplexity of	Sector			
Similar Facilities		Х			Diverse Facilities		
Small Universe			Х		Large Universe		
	Р	rior Ex	xperience W	ith Sector	r		
Existing Sector		Х			New Sector		
Existing Data System			Х		No Data System		
Existing Common Definit	tions	Х			No Common Definit	ions	
Known Universe		Х			Unknown Universe		
Existing Checklists		Х			No Checklists		
Historical Data		Х			No Historical Data		
Similar requirements acro	oss states	Х			Dissimilar requirements across states		
	·	Oth	er Consider	ations	•		
More Desirable/Easier	Noctor	Most sirable	Somewhat desirable	Less desirable	Less Desirable	e/Harder Sector	
Even distribution of facili states	ties across	X			Uneven distribution of states	of facilities across	
Important environmental	concern		Х		Lesser environmenta	l concern	
Regulated by the states an	nd EPA	Х			State only sector		
Ability to link to an enviroutcome	onmental	Х			Inability to link to an outcome	environmental	
Facilities are sophisticate environmental regulation	d about		X		Facilities are unsophienvironmental regula		
No language barriers			X		Language barriers		
Other (list:)							

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of <u>3</u>

ST	ATE	Rhode Islan	d	GRO		OUP	Auto Body		
#	1	Indicator Description		Facility has appropriate documentation or process knowledge that supports its hazardous waste determination for all waste streams					
Data Source Inspection or audit results									
Data Quality Indicator g			good	Okay	Prob- lem	Issu	e:		
Pre	cision	l	Х			Con	pliance with requirement is clearly defined		
Ser	nsitivi	ty	Х			Not	an issue, because of Yes/No answer		
Rej	presen	tativeness	Х			Goo	d for new inspections or audits		
Co	mplete	eness	Х				to gather information at inspection or audit, with review verification of documentation as warranted		
Bias		Х			Shou	ald be no bias with trained inspector			
Validation		Х				to validate at inspection or audit, with review and fication of documentation as warranted			
Oth	ner iss	ue:							

#	2	Indicator Description	Facility has submitted a list of authorized agents that are allowed to sign the manifest						
Data Source Inspection or audit results									
Data Quality Indicator			good	Okay	Prob- lem	Issue:			
Pre	Precision					Same as # 1			
Sei	Sensitivity					Same as # 1			
Re	pres	entativeness	X			Same as # 1			
Co	mpl	eteness	X			Same as # 1			
Bia	Bias					Same as # 1			
Validation		Х			Same as # 1				
Otl	her i	ssue:							

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>2</u> of <u>3</u>

ST	STATE Rhode Isla		d		GR	OUP	Auto Body					
#	3	Indicator Description	Facility	Facility has appropriate documentation to show where waste is being shipped								
		Data Source	Inspectio	on or au	dit result	s						
Data Quality Indicator good Okay					Prob- lem	Issue	Issue:					
Pre	ecisio	on	Х			Same	as # 1					
Sei	nsitiv	vity	Х			Same	as # 1					
Re	prese	entativeness	Х			Same	as # 1					
Completeness			Х			Same	as # 1					
Bias X			Х			Same	as # 1					
Va	lidati	on	Х			Same	as # 1					

#	4	Indicator Description		For satellite accumulation area storage, the container is labeled with the words "Hazardous Waste" and the contents of the container						
		Data Source	Inspectio	on or au	dit result	S				
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision					Same as # 1				
Sei	nsiti	vity	Х			Same as # 1				
Re	pres	entativeness	Х			Same as # 1				
Co	Completeness					Same as # 1				
Bias		Х			Same as # 1					
Validation		X			Same as # 1					

#	5		Indicator Description	For 90 day storage, the container is labeled with the date that it was placed in storage						
			Data Source	Inspectio	on or au	dit result	S			
Data Quality Indicator			ality Indicator	good	Okay	Prob- lem	Issue:			
Precision			Х			Same as # 1				
Sei	Sensitivity			Х			Same as # 1			
Re	pres	ser	ntativeness	Х			Same as # 1			
Co	mpl	let	eness	Х			Same as # 2			
Bia	Bias			Х			Same as # 1			
Validation				Х			Same as # 2			
Ot	heri	iss	ue:							

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page <u>3</u> of <u>3</u>

ST	ATE	Rhode Islan	Rhode Island				Auto Body				
#	6	Indicator Description	Facility	Facility does not use methylene chloride paint strippers							
		Data Source	Inspectio	on or au	dit result	ts					
Da	Data Onality Indicator good Okay				Prob- lem	Issue:					
Pre	ecisio	n	Х			Same	Same as # 1				
Sei	nsitivi	ity	Х			Same as # 1					
Re	presei	ntativeness	Х			Same as # 1					
Co	Completeness X				Same as # 1						
Bias X				Same as # 1							
Va	Validation X					Same	e as # 1				

#	7	Indicator Description	The spray gun cleaning device is totally enclosed during cleaning, rinsing, and draining operations					
		Data Source	Inspectio	on or au	dit result	S		
Da	ita Q	Quality Indicato	r good	good Okay Prob- lem Issue:				
Pre	Precision					Same as # 1		
Sei	Sensitivity					Same as # 1		
Re	prese	entativeness	Х			Same as # 1		
Completeness			X			Same as # 1		
Bia	Bias					Same as # 1		
Va	lidat	ion	Х			Same as # 1		

#	8	Indicator Description	Open floor drains are properly permitted						
		Data Source	Inspectio	on or au	dit result	S			
Da	Data Quality Indicator			Okay	Prob- lem	Issue:			
Pre	Precision					Same as # 1			
Sei	Sensitivity					Same as # 1			
Re	Representativeness					Same as # 1			
Co	mple	eteness	X			Same as # 1			
Bia	Bias					Same as # 1			
Va	Validation					Same as # 1			
Otl	her i	ssue:							

Group and Indicator Packet

STATE	Rhode Island	GROUP	Dental Clini	ics	Would do	X_Most Interested	
		Easier	Somewhat	More			
Easier to C	Collect Good Data	Lusier	difficult	difficult	More Difficult to (Collect Good Data	
Considera	tion	Co	mplexity of	Metrics			
Single Medi	ia	X			Multi Media		
Regulatory	or Good Practices Only				Both Regulatory and	Good Practices	
Few require	ments				Many Requirements		
Clear Cut R	equirements				Subjective Requirem	ents	
		Cor	nplexity of	Sector			
Similar Faci	ilities	X			Diverse Facilities		
Small Unive	erse	X			Large Universe		
		Prior E	xperience V	Vith Sector	r		
Existing Sec	ctor			X	New Sector		
Existing Dat	ta System			X	No Data System		
Existing Co	mmon Definitions		Х		No Common Definit	ions	
Known Univ	verse		Х		Unknown Universe		
Existing Ch	ecklists		X		No Checklists		
Historical D	lata			X	No Historical Data		
Similar requ	uirements across states		X		Dissimilar requirements across states		
		Oth	er Conside	rations			
More Desi	rable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distrib states	oution of facilities across	X			Uneven distribution states	of facilities across	
Important er	nvironmental concern	X			Lesser environmenta	l concern	
Regulated b	by the states and EPA	X			State only sector		
Ability to lin outcome	nk to an environmental		X		Inability to link to an outcome	environmental	
Facilities are sophisticated about environmental regulation		X			Facilities are unsoph environmental regula		
No language	e barriers		X		Language barriers		
Other (list:)							

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of _1_

ST	ATE	Rhode Island			GRO	OUP	Dental Clinics				
#		Indicator Description	Ne	New Sector, indicators not established							
		Data Source									
Da	Data Quality Indicator			Okay	Prob- lem	Issu	e:				
Pre	cision										
Ser	nsitivit	у									
Rej	present	tativeness									
Co	mplete	eness									
Bia	Bias										
Val	Validation										
Oth	ner issu	ie:									

#	Indicator Description				
	Data Source				
Data Quality Indicator		good	Okay	Prob- lem	Issue:
Precision					
Sens	Sensitivity				
Repr	resentativeness				
Com	pleteness				
Bias					
Valio	dation				
Othe	r issue:				

VT DEC -STATES' COMMON MEASURES PROJECT

Group and Indicator Packet

v	Would do	_X_ Most Interested
More difficult Mor	$\Lambda/I \cap \mathcal{V} \cap \mathcal{V} \cap \mathcal{V}$	
letrics		
Mult	ti Media	
Both	h Regulatory and	Good Practices
Man	ny Requirements	
Subj	jective Requireme	ents
ector		
Dive	erse Facilities	
Larg	ge Universe	
th Sector		
New	v Sector	
No I	Data System	
No C	Common Definiti	ons
Unk	nown Universe	
No C	Checklists	
No I	Historical Data	
Diss	similar requirement	nts across states
tions		
Less desirable	Less Desirable	/Harder Sector
Une ^s state		of facilities across
Less	ser environmental	concern
X State	e only sector	
	bility to link to an come	environmental
	lities are unsophi ronmental regula	
Lang	guage barriers	
		Language barriers

VT DEC-STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of 3

ST	ATE	E Vermont	Vermont			OUP	Dental
#	1	Indicator Description	All amalga container,				ad properly stored (not placed in trash, wastewater, sharps
		Data Source					
Da	ta Q	uality Indicator	good	Okay	Prob- lem	Issu	e:
Pre	Precision						
Sei	nsitiv	vity	Х				
Re	prese	entativeness	Х				
Co	mple	eteness	Х				
Bia	Bias						
Va	Validation						
Ot	her is	ssue:					

#	2	Indicator Description	All amalgam wastes are transported off site by a licensed transporter to a licensed recycling facility.						
		Data Source							
Da	ita Q	Quality Indicator	good	Okay	Prob- lem	Issue:			
Pre	Precision								
Sei	Sensitivity								
Re	pres	entativeness	X						
Co	Completeness		Х						
Bia	Bias								
Va	Validation								
Otl	her i	ssue:							

VT DEC - STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 2 of 3

ST	ATE	E Vermont			GR	OUP	Dental				
#	3	Indicator Description	Amalgar	Amalgam separators are installed in practices that place or remove amalgam.							
		Data Source									
Da	Data Quality Indicator			Okay	Prob- lem	Issue	:				
Pre	Precision										
Se	nsitiv	vity	Х								
Re	prese	entativeness	Х								
Co	Completeness		Х								
Bi	Bias										
Va	Validation										

#	4	Indicator Description	U	Amalgam separators are routinely inspected and maintained (including cartridge or unit replacement).						
		Data Source								
Da	Data Quality Indicator			Okay	Prob- lem	Issue:				
Pre	Precision									
Se	nsitiv	vity	Χ							
Re	prese	entativeness	Χ							
Completeness			Х							
Bi	Bias									
Va	lidat	ion	Х							

#	5	Indicator Description								
		Data Source								
Data Quality Indicator			r good	Okay	Prob- lem	Issue:				
Pr	ecisio	on	Х							
Se	nsiti	vity	Х							
Re	pres	entativeness	Х							
Completeness			Х							
Bi	Bias									
Va	alidat	ion								

Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 3 of 3

ST	ATE	E			GR	OUP	
#	6	Indicator Description					us wastes (X-ray fixer, lead foils/shields/aprons, and sposed as a hazardous waste.
		Data Source					
Data Quality Indicator			good	Okay	Prob- lem	Issue	:
Pre	ecisio	on	Х				
Sei	nsitiv	vity	Х				
Re	prese	entativeness	Х				
Co	mple	eteness	Х				
Bias		Х					
Validation							
Ot	her is	ssue:					

#	Indicator Description				
	Data Source				
Data Quality Indicator		good	Okay	Prob- lem	Issue:
Precision					
Sen	Sensitivity				
Rep	presentativeness				
Cor	npleteness				
Bias					
Val	idation				
Oth	er issue:				

VT DEC STATES' COMMON MEASURES PROJECT

Group and Indicator Packet

STATE Vermont	GROUP	Small Quan Generators	tity	_X_ Would do	Most Interested	
Easier to Collect Good Data	Easier	Somewhat difficult	More difficult	More Difficult to Collect Good Data		
Consideration	Co	mplexity of	Metrics			
Single Media	х			Multi Media		
Regulatory or Good Practices Only	Х			Both Regulatory and	Good Practices	
Few requirements		Х		Many Requirements		
Clear Cut Requirements		Х		Subjective Requirem	nents	
	Col	mplexity of	Sector			
Similar Facilities			Х	Diverse Facilities		
Small Universe			х	Large Universe		
	Prior E	xperience V	Vith Secto	r		
Existing Sector	х			New Sector		
Existing Data System	X			No Data System		
Existing Common Definitions		X		No Common Definit	ions	
Known Universe	х			Unknown Universe		
Existing Checklists	Х			No Checklists		
Historical Data		х		No Historical Data		
Similar requirements across states		х		Dissimilar requireme	ents across states	
	Oth	er Conside	rations			
More Desirable/Easier Sector	Most desirable	Somewhat desirable	Less desirable	Less Desirabl	e/Harder Sector	
Even distribution of facilities across states		х		Uneven distribution states	of facilities across	
Important environmental concern	х			Lesser environmenta	ıl concern	
Regulated by the states and EPA	X			State only sector		
Ability to link to an environmental outcome		х		Inability to link to an outcome	n environmental	
Facilities are sophisticated about environmental regulation		х		Facilities are unsoph environmental regula		
No language barriers	х			Language barriers		
Other (list:)						

STATES' COMMON MEASURES PROJECT Group and Indicator Packet INDICATOR EVALUATION CHARTS page 1 of 3

ST	ATE	Vermont	Vermont			ROUP Hazardous Waste Small Quantity Generators		
#	1	Indicator Description	All hazar	dous wa	aste is sto	ored ir	closed containers	
		Data Source	New insp	pections	and histo	oric da	ita	
Da	Data Quality Indicator good Okay					Issu	e:	
Pre	ecisio	n	х					
Sei	nsitiv	ity	х					
Re	prese	ntativeness	x					
Co	Completeness							
Bia	Bias							
Va	Validation							
Otl	her is:	sue:						

#	2	Indicator Description	All hazardous waste is stored on an impervious surface					
		Data Source	New insp	pections	and hist	pric data		
Da	ita (Quality Indicator	good	Okay	Prob- lem	Issue:		
Pre	ecisi	ion		X		"impervious" is somewhat subjective		
Sei	nsiti	ivity	х					
Re	pres	sentativeness	х					
Co	mpl	leteness	х					
Bias		х						
Va	Validation							
Otl	her i	issue:						

STATES' COMMON MEASURES PROJECT Groups and Indicators Packet

INDICATOR EVALUATION CHARTS cont. page 2 of 3

 STATE
 Vermont
 GROUP
 Hazardous Waste Small Quantity Generators

#	3	Indicator Description	All hazardous waste is stored under cover and protected from freezing							
		Data Source	New ins	pections	s and hist	oric data				
Da	ita Q	Quality Indicator	good	Okay	Prob- lem	Issue:				
Pre	ecisio	on	X							
Sei	nsiti	vity	х							
Re	pres	entativeness	X							
Co	Completeness									
Bia	Bias									
Va	lidat	tion								

#	4	Indicator Description	Facility did not exceed quantity thresholds for SQGs						
		Data Source	New ins	pections	s and hist	toric data			
Data Quality Indicator			good	Okay	Prob- lem	Issue:			
Pre	Precision								
Sei	nsiti	ivity	X						
Re	pres	sentativeness	X						
Co	mpl	leteness	X						
Bia	Bias								
Va	Validation								
Otl	her i	issue:							

#	5	Indicator Description	Facility did not store waste for > 180 days						
		Data Source	New ins	pections	s and hist	oric data			
Data Quality Indicator			good	Okay	Prob- lem	Issue:			
Pre	Precision								
Sei	nsiti	ivity	X						
Re	pres	sentativeness	X						
Co	Completeness								
Bia	Bias								
Va	ılida	ntion							

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ST	STATE Vermont				GR	OUP	Hazardous Waste Small Quantity Generators			
#	6	Indicator Description	Facility	has idei	ntified all	ed all hazardous wastes on-site (HW determinations)				
		Data Source	New ins	pection	s and hist	toric da	ta			
Da	Data Quality Indicator			Okay	Prob- lem	Issue	Issue:			
Pr	ecisio	on	х							
Se	nsitiv	vity	х							
Re	Representativeness		х							
Сс	Completeness									
Bi	Bias		х							
Va	lidat	ion								

Other issue:

#	7	7	Indicator Description	All hazardous waste containers are properly labeled								
Data Source			Data Source	New ins	New inspections and historic data							
Data Quality Indicator			ality Indicato	r good	Okay	Prob- lem	Issue:					
Precision			n	х								
Sei	nsit	tivi	ity	х								
Re	pre	esei	ntativeness	х								
Co	mp	plet	teness	х								
Bia	Bias			х								
Validation			on									
Ot	Other issue:											