

A R K A N S A S Department of Environmental Quality

Mercury Minimization Plan (MMP) Guidelines

NPDES Individual Discharge Permit



Background and Overview

The following guidance has been developed to address situations where a Mercury Minimization Plan (MMP) has been required through the National Pollutant Discharge Elimination System (NPDES) permit in Arkansas. Because existing Total Maximum Daily Loads (TMDLs) developed to address waterbodies impaired by mercury in Arkansas assumed all discharges from Publicly Owned Treatment Works (POTWs) do discharge some Mercury, this guidance document focuses on minimization from the POTWs perspective. However, this document is also intended to provide guidance for other facility types required to implement a MMP through their NPDES permit.

Traditional approaches to pollution control have emphasized treating for pollutants through end-of-pipe effluent limitations. Through a MMP, ADEQ anticipates that Mercury pollution prevention and waste minimization rather than end-of-pipe controls will result in the most efficient reduction of Mercury discharges to surface waters of Arkansas. Pollution prevention and waste minimization are more reasonably accomplished and cost productive than the implementation of controls and technologies to meet Mercury effluent limitations.

Until recently, EPA's approved method for the analysis of Mercury was not sensitive enough to measure Mercury at trace levels. Consequently, there is little reliable data available on Mercury loadings discharged from NPDES point sources. In 1998 EPA adopted a new analytical procedure that detects Mercury at trace levels, allowing more exact data to be collected and utilized in determining compliance with applicable water quality standards. The MMP employs EPA approved analytical methods (*EPA Methods 1631, 245.7*) through effluent sampling and system wide monitoring programs to locate and identify potential sources of Mercury in the treatment system. Once identified, the MMP integrates cost-effective reduction controls, either treatment or prevention based, to reduce or eliminate Mercury from the source.

While it is expected that specific permit language (see Appendix A, Sample NPDES Permit Language) may vary, there are two key elements for a MMP.

- The Mercury Minimization Plan (MMP) shall lay out guidelines for:
 - o Identification of potential sources of Mercury that contribute to discharge concentrations (includes a review of existing data);
 - Reasonable, cost effective activities to reduce or eliminate Mercury loadings from identified sources;
 - o Tracking Mercury source reduction and Mercury source monitoring;
 - o Quarterly monitoring of POTWs influent and effluent;
 - Resources and staffing;
- The <u>Status Report</u> which shall serve both as a compliance monitoring tool for the ADEQ, and as a revising process for the discharger to make necessary revisions to the MMP where problems are discovered and where new areas may develop that need investigation.

The Mercury Minimization Plan (MMP)

The Mercury Minimization Plan (MMP) must consist of the following sections.

- I. Identification of Potential Sources of Mercury
- II. Monitoring Plan
- III. Control Measures Development and Implementation
- IV. Resources and Staffing
- V. Reporting Requirements

The MMP shall be developed and provided to the ADEQ within 1 year of the effective date of the NPDES permit requiring the MMP. The following detailed sections are to serve as <u>guidelines</u> for development of each section. Conditions at each facility should be utilized to develop a plan best suited for that facility.

I. Identification of Potential Sources of Mercury – the facility should develop specific plans to identify and eliminate potential sources of Mercury to the discharge.

The NPDES permitted facility required to develop a MMP needs to examine all potential sources of Mercury to the discharge. Sources of Mercury include, but are not limited to, processing, raw materials, treatment chemicals, industrial users, commercial users, domestic users, stormwater, inflow and infiltration (I&I), groundwater, atmospheric deposition, source water and other wastestreams that contribute to the discharge. Three basic methods can be utilized to identify potential sources:

- A. Data gathering and review of existing information.
 - 1. Review existing information on industrial users. An Industrial User is any user who introduces pollutants into a treatment system from a non-domestic source including commercial users.
 - a. For any categorical industrial users contributing to the treatment system, review EPA standards in 40 CFR Parts 405-471 to determine if Mercury is a pollutant of concern for that industrial category. EPA Development Documents and Industrial Sector Notebooks on specific industrial categories are useful.

40 CFR Parts 405-471
EPA Development Documents and Industrial Sector Notebooks

- b. For those non-categorical users, determine if processes, materials or products stored or handled at the site have the potential to discharge Mercury into the treatment system.
- 2. Gather new or additional information from all industrial users.
 - a. Appendix B contains Mercury surveys for medical facilities, schools, dental offices and other general industrial users.

- b. Have industrial users provide the Material Safety Data Sheets (MSDS) or Certificate of Analysis (COA) for all chemicals/materials stored or handled on site.
- 3. Domestic/residential sources can be potential sources of pollutants; however, traditional controls are not appropriate. Pollution prevention for residential users would be better achieved through educational campaigns.
- 4. Chemicals, processes and materials stored or handled at the facility should be examined for the potential to contain Mercury. Review the MSDS for processes or chemicals to provide gross-level information on Mercury. Requesting a COA from the manufacturer of any chemicals handled or stored at the facility should specify the Mercury content in parts per billion (ppb) or parts per million (ppm).
- 5. Results of Mercury concentrations in precipitation are available online at http://nadp.sws.uiuc.edu/. Review average Mercury concentrations in precipitation to determine Mercury levels entering the system through stormwater flows.
 - a. Identify what steps the treatment system is taking to reduce I&I problems in the collection system.
- 6. Review collection system cleaning practices. Large amounts of Mercury reside in sediments that are introduced to the treatment system during collection system flushing.
- B. Monitoring for Mercury at various points within the facility/treatment system.

A system wide monitoring strategy is dependent upon the objective. Establishing levels associated with normal domestic and industrial sources are done to provide a baseline to measure progress and identify any hot spots that may be present in the system.

1. Monitoring of the treatment plant influent should be conducted. Because concentrations of Mercury entering the treatment plant are expected to be significantly higher than effluent concentrations, influent sampling should be conducted using EPA Method 245.1. If the results of the influent sampling yield results higher than the minimum quantification level (MQL), steps should be taken to conduct sampling of the collection system at various locations to isolate the potential source. A copy of the ADEQ Priority Pollutant Scan form can be found at the following link, on page two of the PPS form the mercury MQL is listed.

http://www2.adeq.state.ar.us/water/pdfs/pps_form.pdf

2. Monitoring throughout the treatment system as a result of elevated influent concentrations should be conducted working backwards from the headworks. Sampling for Mercury at lift stations can allow for easy and quick identification of the vicinity of a potential source of Mercury throughout the system. Identifying a general vicinity can allow for quick review of contributing industries in that area for possible independent sampling. Where practicable, sampling should be conducted within a given area

simultaneously. Because concentrations of Mercury in the treatment system are expected to be significantly high, system wide sampling should be conducted using EPA Method 245.1.

- 3. In some cases, mass-balance calculations may be more useful in monitoring progress than chemical analysis. Alternative monitoring mechanisms other than chemical analysis may be acceptable.
- 4. Direct monitoring of industrial users discharging into the treatment system can serve both as a tool to identify a source of Mercury contribution and to eliminate any sources that may be considered targets.
- C. Certification Statement that there are no known or suspected operations that would reasonably be expected of discharging mercury to the facility's Wastewater Treatment Plant.
 - 1. Facilities must complete the requirements of Part II.A or Part II.B, Monitoring requirements, of the MMP.
 - 2. Facilities must complete a certification statement as provided in Appendix D.
 - 3. Certification Statements must be completed with each renewal application for the NPDES permit.

II. Monitoring – Monitoring for Mercury.

A. Certification Statement for Major Dischargers, design flow of equal to or greater than 1.0 MGD, Monitoring Requirements.

Effluent monitoring shall not be less than quarterly for major NPDES facility's using the most sensitive EPA approved test methods and clean sampling techniques. Results of these tests shall be maintained on site in a report and submitted with the NPDES permit renewal application.

B. Certification Statement for Minor Dischargers, design flow of less than 1.0 MGD, Monitoring Requirements.

Minor NPDES facility's sampling requirements will be determined on a case by case basis but shall not be less than annual effluent monitoring. Results of these tests shall be maintained on site in a report and submitted with the NPDES permit renewal application.

- C. Mercury Minimization Plan Monitoring Requirements: Monitoring should be conducted of the facility's effluent, influent, biosolids and throughout the treatment system to establish base levels and goals for Mercury reduction.
 - 1. Effluent monitoring shall not be less than quarterly for major NPDES facilities using the most sensitive EPA approved test methods and clean sampling techniques. Minor NPDES facility sampling requirements will be determined on a case by case basis but shall not be

less than annual effluent monitoring. Results of these tests shall be maintained on site in a report and submitted with the NPDES permit renewal application.

- 2. If sampling of the sludge is conducted during the year, this information shall be maintained on site in a report and submitted with the NPDES permit renewal application.
- 3. Sampling of the treatment system influent and throughout the treatment system should be performed to establish baselines and goals for reduction. See Part I.B above for influent and treatment system sampling protocol.

III. Control Measures – Development and implementation of cost-effective control measures for those identified sources.

The plan should illustrate the treatment system's approach for development of cost-effective control strategies for those sources identified as contributors of Mercury to the treatment system. Activities selected by the treatment system for control measures should be based on the potential of those activities to reduce Mercury loadings into the system and ultimately its effluent. For each control measure, goals should be established and communicated to the source. Performance measures should be established to determine attainment of set goals.

- 1. The term *source* is loosely defined so that all inputs of Mercury into the system, not just pinpointed users of the system, are considered for control measures. Sources can include raw materials, chemicals used, atmospheric deposition, stormwater inputs, and sewer cleaning practices, along with domestic and industrial users. A control can be anything that reduces the amount of Mercury contributed to the system.
- 2. Source significance should be considered. An effort to quantify load potential from each identified source should be made. This quantification should assist in prioritizing sources for Mercury reduction and elimination efforts.
- 3. Economic considerations may be given regarding the reduction of Mercury from an identified source.
- 4. Treatability considerations may apply to specific sources. A complete description of any such consideration should be documented.
- 5. Control measures should be tracked to determine the measure of performance and goal achievement for each type of source. Tracking may indicate the need to change course as necessary for any given source.
- 6. Examples of Mercury Control Measures

Source	Control Measure Activity	Performance Measure	Goal
Medical Facilities (hospitals, clinics, nursing homes, veterinarians)	Deliver AHA BMP literature ¹ Conduct workshops Onsite visits Require participation in H2E ¹	Date Contacted Content Given Participation Progress	Mercury Free Spill Management
Dental Clinics	Deliver ADA BMP literature ² Meet with dentists Onsite visits Conduct workshops Require Mercury recycling/capture	Date Contacted Content Given Participation Progress Quantity Recycled	Mercury Capture/Recycling
Schools	Deliver BMP literature Conduct teacher ³ workshops Onsite visits Hg Inventory	Date Contacted Content Given Participation Progress Quantity Recycled	Mercury Free Spill Management
General Industrial Users	Deliver Chemical Literature Deliver Equipment Literature Application of BMPs Onsite visits Conduct workshops	Date Contacted Content Given Progress	Phase out Mercury containing devices and chemicals Spill Management
Facility/Treatment System	Evaluate chemical usage Evaluate equipment usage Evaluate septic haulers Evaluate sewer cleaning practices Evaluate industrial users	Progress	Phase out Mercury containing devices and chemicals
Plumbers	Evaluate pressure Devices Evaluate equipment usage Deliver Chemical Literature Deliver Equipment Literature Application of BMPs	Date Contacted Content Given	Phase out Mercury containing devices and chemicals
General Public – Residential Areas	Promote Mercury clean sweeps Displays at local events Public Service Announcements Outreach to Schools Local website Mercury content Local recycling day Local household hazardous recycling day	Date Contacted Content Given PSA Dates Website Hits Participants	Reduced use of Mercury containing products Spill Management Recycling of Mercury containing products

^{1.} https://practicegreenhealth.org/topics/chemicals/mercury/elimination-strategies

^{2.} http://www.google.com/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=2&cad=rja&uact=8&ved=0CCQQFjAB&url=htt p%3A%2F%2Fwww.ada.org%2F~%2Fmedia%2FADA%2FMember%2520Center%2FFIles%2Ftopics amalgamwaste brochur e.ashx&ei=MrBvVLSMFIHwggTKh4CwAg&usg=AFQjCNFcuuNij9ONC9XuKVro8tG6WK8U7A

^{3.} http://www.Mercuryinschools.uwex.edu/curriculum/index.htm

IV. Resources and Staffing – the plan should summarize resources and staff that will commit time and funding to development and implementation of the plan.

- 1. Indicate the source and amount of funding that will be available to carry out the plan.
- 2. Indicate the number and position of employees that will devote time to planning and implementation.
- 3. Where other entities will devote time and funding to planning or implementation, those resources should be included as well.

V. Reporting Requirements – Mercury Minimization Plan Status Report

The plan status report is an important element of a MMP. The original MMP is to be submitted within 1 year of the effective date of the NPDES permit for review. A plan status report as detailed in Appendix C must be submitted with every NPDES permit renewal application. The report should include the following at a minimum and be submitted on the form in Appendix C:

- A. A list of potential Mercury sources;
- B. A summary of actions taken to reduce or eliminate Mercury discharges to progress toward meeting water quality standards; and
- C. Mercury source reduction implementation, source monitoring results, influent and effluent, and results for the previous year; and proposed revisions to the plan based on findings from the previous year.

ADEQ Approval of the Mercury Minimization Plan

ADEQ will review the MMP to ensure that implementation of the plan moves the treatment system toward the goal of minimizing Mercury concentration in its effluent. Consideration will be given to those activities that address sources outside of the treatment facilities jurisdictional boundaries. Implementation is maintained as a condition of the NPDES permit. However, ADEQ encourages treatment facilities to begin implementation activities such as monitoring and outreach prior to approval and supports those treatment facilities that choose to implement a MMP without the requirement regulated through their NPDES permit.

The treatment system is responsible for implementation of the plan, its Mercury reduction strategies, and defined monitoring. The treatment system is encouraged to review available information and adopt approaches that others have already found to be effective.

References:

Pollutant Minimization Program Guidance, Ohio Environmental Protection Agency, Division of Surface Water, Revision 0, August 13, 1998.

Holly, Michigan Pollutant Minimization Program, March 12, 2003.

Blueprint for Mercury Elimination, Western Lake Superior Sanitary District, Great Lakes Protection Fund and the Great Lakes Pollution Prevention Centre. Revised January 2000.

Mercury Pollutant Minimization Program Guidance, USEPA Region 5, NPDES Programs Branch, November 2004.

Best Management Practices for Amalgam Waste, American Dental Association. September 2005.

Mercury in Your School and Community: A National Issue, Mercury in Schools Education Team, sponsored by the USEPA and the University of Wisconsin – Extension. March 2002.

Louisiana Department of Environmental Quality-"Mercury Minimization Program Guidance Document for Permits Issued Under the Louisiana Pollutant Discharge Elimination System" (February 2007, LDEQ).

Appendix A Sample Permit Language

The following permit language is a template that contains the basic requirement of the MMP Plan and can be customized to fit specific circumstances. It is intended to be used for both sanitary and non-sanitary permits that have identified Mercury in their effluent. The MMP Plan can be used as an alternative to a Waste Load Allocation (WLA) listed in the TMDL when treatment is not feasible. This language shall be required in Part II of the permit.

Part II – Condition

Mercury Minimization Plan (MMP)

The permittee must develop and implement a Mercury Minimization Plan (MMP) within one (1) year from the effective date of this permit. The MMP must identify potential sources of mercury and the measures to reduce or eliminate mercury loading. The MMP must be drafted and submitted to the Department for review within (1) year from the effective date of this permit. The MMP must include the following at a minimum:

- 1. A plan which includes the permittee's commitments for:
 - a) Identification of potential sources of mercury that contribute to discharge concentrations (includes a review of existing data);
 - b) Reasonable, cost-effective activities to reduce or eliminate mercury loadings from identified sources;
 - c) Tracking mercury source reduction implementation and mercury source monitoring;
 - d) Quarterly monitoring of POTW influent and effluent; and
 - e) Resources and staffing.
- 2. Implementation of cost-effective control measures for direct and indirect contributors.
- 3. An updated status report must be submitted to the Department with each renewal application that includes:
 - a) A list of potential mercury sources;
 - b) A summary of actions taken to reduce or eliminate mercury discharges and progress toward meeting water quality standards;
 - c) Mercury source reduction implementation, source monitoring results, and influent and effluent monitoring results for the previous year; and
 - d) Any proposed revisions to the plan based on findings from the previous year.

Appendix B Mercury Surveys

Medical Facility	Mercury Survey		
What Type of Me	dical Facility are you (hospi	ital, clinic):
What is the size of	f your facility (# of beds, # of	of patients	s/day):
Please provide the	following Mercury contact	informati	ion for your medical facility:
Name:			
Title:			
Phone:			
	narticipate in the Hospitals	for a Hea	llthy Environment (H2E) Program
☐ Yes	□ No		– not a hospital
			cated or used in your facility:
	Thermometers		Gastrointestinal diagnostic equipment
	nomanometers		Feeding Tubes
	ercial manometer		Thermostats
	es (relay, silent, tilt)		Barometers
	es (relay, shellt, tht)		Darometers
Chemicals	2 1 4	_	TI' 4 1 ' 1 IP' 4'
☐ Zenker's solution			Histological Fixatives
•	and Preservatives		Maranan (II) Orida
	ry Chloride		Mercury (II) Oxide
	ry (II) Chloride		Mercury (II) Sulfate
☐ Mercui	ry Nitrate		Mercury Iodide
Lamps			
☐ Fluores	scent	П	Metal Halide
☐ Ultravi			High Pressure Sodium
☐ Mercui			LCD Projectors
Batteries	y vapor	_	Leb Hojectors
	ric Oxide		Button Batteries
		_	y other materials that could be a concern for Mercury
pollution.	1	, ,	•
Have you conside:	red or adopted Mercury free	e alternativ	ves for any of the products listed above? Please explain.

Medical Facility Mercury Survey (continued)	
Please complete the following section on practices at your facility:	
Is staff training provided on the health and environmental concerns of Mercury? Is staff training provided on Mercury spill prevention or management? Is there a Mercury spill clean-up kit on site? Have there been any Mercury spills within the last ten years? □ Yes □ No No	
Does your facility have a policy on purchasing Mercury containing products? If yes, please attach a copy of the policy.	
Do you currently require disclosure by vendors of Mercury concentrations in solutions? \square Yes \square No	
What is the current procedure for disposal of medical waste? ☐ Autoclave ☐ Incineration ☐ Other	
Have your sewer drain traps/catch basins been cleaned to remove Mercury? ☐ Yes ☐ No	
If yes, was Mercury discovered? □ Yes □ No	
Are any Mercury products in your facility currently recycled? Yes No If there are other facility practices that you think should be a concern for Mercury pollution, please list them here:	

Dental Of	fice Mercury Survey
Dental Off	fice Name:
Please pro	vide the following Mercury contact information for your dental office:
Na	ame:
Ti	tle:
Ρŀ	none:
•	e amalgam?
	Yes
	No
	icate if the following equipment or materials are used in your office:
	raw Mercury
	pre-capsulated amalgam capsules
	water-injected vacuum pump
	dry turbine vacuum pump
	recycler on vacuum pump
	als collected on cuspidor, evacuation unit, vacuum pump and saliva ejector filters that are not please indicate the method of disposal.
	wash down the sink
	recycled
	other
	(non-contact) amalgam that is not recovered, please indicate the method of disposal.
-	wash down the sink
	recycled
	other:
	ou dispose of pulled teeth containing amalgam fillings?
	recycled. Provide the name of your recycler:
	washed down the sink
	put in infectious waste (red) bag
	hazardous waste hauler. Provide the name:
	other:

Dental Office Mercury Survey (continued)
Are chair-side traps, or some type of pre-filter used? ☐ Yes ☐ No
If yes:
How often are your traps/filters cleaned?
recycled. Provide the name of your recycler:
□ washed down the sink
□ put in infectious waste (red) bag
hazardous waste hauler. Provide the name:
other:
Of the amount of new amalgam placed, estimate the following percentages based on the amount of amalgam
mixed. Please include amalgam recovered from traps and filters.
Of the total old amalgams removed including those in pulled teeth, estimate the following percentages based on
total amount of amalgam removed. Please include the amalgam recovered from traps and filters.
What is your preferred method for learning about waste management? (check three)
☐ printed information (brochures, pamphlets, manuals, professional newsletters)
□ on-site consultation with a waste specialist
☐ informational hotline
☐ speakers at dental society meetings
☐ trade fairs
□ other

Dental Office Mercury Survey (continued)

If not curre waste?	ently recycling, what factors below would help you to change the way you presently dispose of
	consistency of information
	concern about governmental enforcement
	concern about liability
	concern about public image
	concern for the environment
	concise disposal guidelines
	professional association endorsement
	no cost increase
	concern for employee safety and health
	concern for public safety and health
	pick up services available for wastes
	drop off services available for wastes
	ease of disposal
If not curre	ently recycling, what factors keep your dental office from doing so?
	lack of information
	no regulatory requirement to do so
	to difficult
	to expensive
	difficulty in finding recyclers
	not aware that I should
	no or very little use of amalgam

eral I	ndustry Mercury Survey
lity/C	ompany Name:
se pro	vide the following Mercury contact information for your facility:
_	ame:
Ti	itle:
	none:
	icate if the following Mercury sources are located or used in your business. Place a check in the box the specific source listed. If you have identified a source of Mercury that is not listed, please add it to
	barometers
	batteries, list the types:
	DC watt hour meters, flow meters, vibration meters
	displacement/plunger relay
	power supply switching, 1 to 4 poles, NO, NC, many voltage and current ratings, generally for high-current, high-voltage applications such as lighting, resistance heating, commercial welders
	flame sensors/safety valves
	some infrared heaters, some furnaces, stainless steel bulb, capillary tube, bellows/control device, Used for unsupervised burners in certain gas-fired devices with standing pilot or electronic ignition pilot
П	lamps; fluorescent, high-pressure sodium, metal halide, ultraviolet
_	switches; relay switches, pressure control (mounted on bourdon tube or diaphragm), tilt switches, silent light switches (single pole and three way) temperature control (mounted on bimetal coil or attached to bulb device), fire alarm box switch, sump pump floats
	reed relays; used for low voltage, high precision analytical equipment
	thermometers
	thermostats; ovens, room temperature control, refrigerators
	vacuum gauges; needle or bourdon gauges, manometers
	other possible Mercury sources, please list here any other materials that you think should be a

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Merc	ury	Survey for Schools (continued)		
Medio	cal:			
_	\checkmark	Item	How much or many?	Items use?
		Mercury fever thermometers		
		sphygmomanometers with silver liquid (blood pressure)		
Home	Ecc	onomics and Art:		
_	$\overline{\checkmark}$	Item	How much or many?	Items use?
		Mercury cooking thermometer		
		true vermillion paint		
		cadmium vermillion red		
Other	:			
_	$\overline{\checkmark}$	Item	How much or many?	Items use?
		Mercury oxide/Mercury zinc batteries (old alkaline prior to 1996)		

Appendix C Mercury Minimization Plan Status Report

Arkansas Department of Environmental Quality Mercury Minimization Plan Status Report

This document is submitted to fulfill the requirements as set forth in the NPDES permit requiring the development of a Mercury Minimization Plan. The Report serves both as a compliance monitoring tool for the ADEQ, and as a revising process for the discharger to make necessary revisions to the MMP where problems were discovered and where new areas need investigation.

Date:			
Permit Number:	AR		
Additional Permits cover	red by this Report:		
Company Name:			_
Facility Name:			_
Contact Name:			_
Contact Phone:	()		-
Was the Mercury Mapermit cycle?	inimization Plan as submi	tted to ADEQ followed com	pletely during the previous
□ Yes	□ No		
• •	actions or conditions that	elearly describes any and al t lead to the variation as w	<u>*</u>

- 2. List any *confirmed* sources of Mercury to the treatment system including an average annual loading to the treatment system (may be estimated) and method by which the source was identified.
- 3. List any *potential* sources of Mercury to the treatment system including an average annual loading to the treatment system (may be estimated).
- 4. Attach all analytical results from all monitoring performed during the last year for Mercury, including detection/quantification level, method used and location of sample (ex: influent, effluent, sludge, Main Street Lift Station, XYZ Cleaners, etc..)
- 5. Attach a list of all actions taken to reduce or eliminate sources of Mercury from the treatment system. Actions may include treatment, remediation, investigation, operation, management activities, public outreach, distribution of materials, implementation of BMP's, contact with industrial users, inspection of industrial users, etc. If no actions were taken to reduce or eliminate sources of Mercury to the treatment system, please explain why.
- 6. Attach a list of all actions planned to further reduce or eliminate sources of Mercury.
- 7. Provide additional comments or information on the treatment systems progress using the Mercury Minimization Plan to proceed toward achievement of the goal to reduce effluent concentrations of Mercury.

Appendix D Mercury Certification Form for Municipalities

Mercury Certification Form for Municipalities

I. PERMITTEE/OPERATOR INFORMATION

"As the entities permit mercur dischar under a evaluat respons comple impriso	number listed above. Therefore, ry to the collection system servir rged from the wastewater treatmer my direction or supervision in the the information submitted. Basible for gathering the information etc. I am aware that there are somment for knowing violations."	bmit a Mercury Exclusion Certification form once every five years to	evels of mer chments were el properly g r those person lief, true, acc possibility of	discharge cury to be e prepare gather ar ns direct curate, ar f fine ar
"As the entities permit mercur dischar under revaluat respons comple	number listed above. Therefore, ry to the collection system servir rged from the wastewater treatment my direction or supervision in the the information submitted. Based sible for gathering the information etc. I am aware that there are	nent plant. I certify under penalty of law that this document and all attach accordance with a system designed to assure that qualified personner ased on my inquiry of the person or persons who manage the system, or ion, the information submitted is, to the best of my knowledge and bel significant penalties for submitting false information, including the	evels of mer chments were el properly g those person lief, true, acc	discharge cury to be prepare gather and the curate, and the cu
I.		stewater treatment plant and collection system, I hereby certify that non- wer collection system which serves the wastewater treatment plant perm e, there are no known or suspected operations that would reasonably be	itted under th	
	Do you accept waste that contains	ns mercury from other sources that may not be mentioned above?		
e.	Do you accept waste that contains			
c. d.		ns mercury from schools that have laboratories?		
b.	Do you accept waste that contains	•		
a.	Do you accept waste that contains Veterinarians?	ns mercury from Medical Facilities such as Hospital, Clinics, Nursing Homes, and	d 🗆	
or susp wastew Please throug	pected operations that would read water treatment plant. red each question and check eith gh (e), you are not eligible for the	ry Exclusion Certification form, the permittee in Section I is certifying the asonably be expected to contain mercury in their discharge that is accentate "Yes" or "No" in the appropriate box. If you answer "Yes" to anothe Mercury Exclusion Certification in the permit and the effluent mentration detection level of 0.0002 μg/l of mercury.	epted by the	Permitte
. MER	CURY EXCLUSION CERT	TIFICATION		
Pe	ermittee State:	Zip:		
Pe	ermittee City:	Permittee E-mail Address:		
	Permittee Mailing Address:	Permittee Fax Number:		
	ermittee (Legal Name):	Permittee Telephone Number:		