

Application Form <u>PPS</u> Priority Pollutant Scan Information

ATTENTION

"Clean" Sampling Techniques

Water quality (WQ) standards (Based on aquatic toxicity and human health criteria) for many of the heavy metals are "at" analytical methods' detection levels (MDL).

It is recognized that <u>unclean</u> sampling and lab techniques can and do <u>cause</u> contamination sometimes causing measurements to be "seen" as <u>violations</u> of the WQ standards. Therefore, the permittee must recognize the **importance** of **eliminating** contamination.

For personnel responsible for collecting samples in answer to effluent monitoring requirements, the Department recommends following sample collection and handling in accordance with EPA's <u>Method</u> <u>1669</u>: <u>Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria</u> <u>Levels</u> as closely as possible and as economically feasible. A copy of Method 1669 is available upon request.

Please convey to your contract testing laboratory the extreme importance of proper sampling techniques associated with analytical testing for heavy metals. Some of the techniques may be considered too expensive to justify implementation but it could be in the best interest of your facility to <u>submit the PPS</u> Form by using common sense "Clean" Sampling Techniques.

GENERAL INSTRUCTION

- 1. Generation of a form similar to the <u>PPS</u> form is prohibited without expressed written permission of ADEQ, Discharge Permits Section, Water Division.
- 2. All major facilities, all categorical industries, or any facility that believes there are priority pollutant(s) present in their discharge, must submit the Form <u>PPS</u>.
- 3. All facilities must monitor for **metals** and **cyanide**.
- 4. Testing requirements for categorical industries are listed in Attachment 1.
- 5. If one of the EPA approved test methods (40 CFR Part 136) is used the method detection level (MDL) must be as low as Minimum Quantification Levels (MQL). MQLs are based on EPA Region 6 guidance dated April 10, 2006: "MQL = 3.3 X MDL"
- 6. All the units must be expressed in μ g/l (Micro grams per liter).
- 7. <u>All the results less than Used Method Detection Level Achieved are reported as ND (Not Detected).</u>
- 8. The data requested for the priority pollutant scan in the enclosures shall be submitted with copies of the laboratory results, MDLs and MQLs. Certification that QA/QC procedures were implemented must be submitted with the requested information.
- 9. All analyses must be performed at the minimum level of sensitivity. The analyses must demonstrate that an acceptable calibration point as low as MQL was used. Test procedures must conform to approved EPA methodology listed in 40 CFR Part 136.

ATTACHMENT 1 TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY

INDUSTRY CATEGORY

THEOSTRI GATEGORI	Vol ati l e	Aci d	Base/Neutral	<u>Pesti ci de</u>
Adhesi ves & Seal ants	Х	Х	Χ	_
Al umi num Formi ng	X	X	X	_
Aluminum Forming	X	X	X	X
Battery Manufacturing	Χ	_	X	_
Coal Mining	X	Χ	X	X
Coil Coating	X	X	X	_
Copper Forming	X	X	X	_
Electric & Electronic Compounds	X	X	X	X
El ectroplating	X	X	X	-
El ectropl ati ng Expl osi ves Manufacturi ng	-	X	X	_
Foundri es	Χ	X	X	_
Gum & Wood Chemicals	X	Ŷ	X	X
I norgani c Chemi cal s Manufacturi ng	X	X	X	=
Iron & Steel Manufacturing	X	Ŷ	X	_
Leather Tanning & Finishing	X	Ŷ	X	X
Mechanical Products Manufacturing	X	Ŷ	X	=
Nonferrous Metals Manufacturing	X	X	X	X
Ore Mining	X	Ŷ	x	Ŷ
Organi c Chemi cal s Manufacturi ng	X	Ŷ	â	â
Paint & Ink Formulation	χ̈́	Ŷ	x	Ŷ
Pesti ci des	Ŷ	Ŷ	$\hat{\mathbf{x}}$	â
Petrol eum Refining	X	Ŷ	x	Ŷ
Pharmaceuti cal Preparations	Ŷ	Ŷ	$\hat{\mathbf{x}}$	2
Photographic Equipment & Supplies	Ŷ	Ŷ	Ŷ	X
Photographic Equipment & Supplies	Ŷ	Ŷ	Ŷ	Ŷ
Plastic Processing	Ŷ	_		
Porcel ain Enamel ing	Ŷ	_	X	x
Printing & Publishing	Ŷ	Y	Ŷ	Ŷ
Pulp & Paperboard Mills	Ŷ	Ŷ	Ŷ	Ŷ
Rubber Processing	Ŷ	Ŷ	Ŷ	_
Soap & Detergent Manufacturing	Ŷ	Ŷ	Ŷ	Ξ
Steam Electric Power Plants	Ŷ	Ŷ	Ŷ	_
Textile Mills	Ŷ	Ŷ	Ŷ	Ÿ
Timber Products Processing	â	x	x	â

Testing required.
- Testing not required.

ARKANSAS Department of Environmental Quality PPS REQUIREMENTS

1.	Name of facility:	
2.	Name, address and telephone number of Laboratory:	
	Is the lab certified by the State of Arkansas? Yes No What are the certification dates?	
4.	Issued data Expire date	
5	Is the laboratory certified for all the parameters?	
0.	YES No (Expl ai n)	
6.	Date and time of samples collected:	
7.	Date and time samples were received in the laboratory:	-
8.	Sample location (Outfall No.):	
9.	Samples collected by:	
	Name	
	Title	
10.	I certify under penalty of law that this document and all attachments we my direction of supervision in accordance with a system designed to assequence personnel properly gather and evaluate the information submitted. Base the person or persons who manage the system, or those persons directly gathering the information submitted is, to the best of my knowledge and and complete. I am aware that there are significant penalties for information, including the possibility of fine and imprisonment for knowledge.	ure that qualified don my inquiry of y responsible for belief, accurate, submitting false
	Printed Name of person signing Title	
	Si gnature Date si gned	
	List all attachments to this form:	

			LAB	ORATORY ANAL	YSI S	
	META	ALS AND CYANIDE	RESULTS (μg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (μg/I)	REOUI RED MOL (μg/I)
1.	Anti mony	(Total), Recoverable				60
2.	Arseni c	(Total), Recoverable				0. 5
3.	Beryllium	(Total), Recoverable				0. 5
4.	Cadmi um	(Total), Recoverable				0. 5
5.	Chromi um	(Total), Recoverable				10
7.	Chromi um	(6+), Di ssol ved				10
8.	Copper	(Total), Recoverable				0. 5
9.	Lead	(Total), Recoverable				0. 5
10.	Mercury	(Total), Recoverable				0. 005
12.	Ni ckel	(Total), Recoverable				0. 5
13.	Sel eni um	(Total), Recoverable				5
14.	Si I ver	(Total), Recoverable				0. 5
15.	Thallium	(Total), Recoverable				0. 5
16.	Zi nc	(Total), Recoverable				20
129.	Phenols, To	otal Recoverable				5
17.	Cyani de	(Total), Recoverable				10

	LAB			
DI OXI N	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/I)	REOUI RED MOL (μg/I)
18. 2, 3, 7, 8-Tetrachl oro-debenzo-p- di oxi n (TCDD)				0. 00001

		LAL			
	VOLATILE COMPOUNDS	RESULTS (μg/l)	APPROVED EPA METHOD USED	DETECTI ON LEVEL ACHI EVED (μg/l)	REOUI RED MOL (μg/I)
19.	Acrol ei n				50
20.	Acryl oni tri l e				20
21.	Benzene				10
22.	Bromoform				10
23.	Carbon Tetrachl ori de				2
24.	Chl orobenzene				10
<i>25.</i>	Chl orodi bromomethane				10
26.	Chl oroethane				50
27.	2-Chloroethyl vinyl ether				10
28.	Chloroform				10
29.	Di chl orobromomethane				10
30.	1, 1-Di chl oroethane				10
31.	1, 2-Di chl oroethane				10
32.	1, 1-Di chl oroethyl ene				10
33.	1, 2-Di chl oropropane				10
34.	1, 3-Di chl oropropyl ene				10
<i>35.</i>	Ethyl benzene				10
36.	Methyl Bromide [Bromomethane]				50
<i>37.</i>	Methyl Chloride [Chloromethane]				50
38.	Methylene Chloride				20
39.	1, 1, 2, 2-Tetrachl oroethane				10
40.	Tetrachl oroethyl ene				10
41.	Tol uene				10
42.	1, 2-trans-Di chl oroethyl ene				10
43.	1, 1, 1-Tri chl oroethane	1			10
44.	1, 1, 2-Tri chl oroethane				10
45.	Tri chl oroethyl ene	1			10
46.	Vi nyl Chl ori de				10

	LAB			
ACID COMPOUNDS	RESULTS (μg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REOUI RED MOL (μg/I)
47. 2-Chl orophenol				10
48. 2, 4-Di chl orophenol				10
49. 2, 4-Di methyl phenol				10
50. 4,6-Dinitro-o-Cresol [2 methyl 4,6-dinitrophenol				50
51. 2, 4-Di ni trophenol				50
52. 2-Ni trophenol				20
53. 4-Ni trophenol				50
54. P-Chloro-m-Cresol [4 chloro-3-methylphenol]				10
55. Pentachl orophenol				5
56. Phenol				10
57. 2, 4, 6-Tri chl orophenol				10

		LAL			
	BASE/NEUTRAL COMPOUNDS	RESULTS (μg/I)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHI EVED (µg/I)	REOUI RED MQL (μg/I)
58.	Acenaphthene				10
59.	Acenaphthyl ene				10
60.	Anthracene				10
61.	Benzi di ne				50
62.	Benzo(a)anthracene				5
<i>63.</i>	Benzo(a)pyrene				5
64.	3, 4-Benzofl uoranthene				10
<i>65.</i>	Benzo(ghi)perylene				20
66.	Benzo(k)fluoranthene				5
67.	Bis(2-chloroethoxy) methane				10
68.	Bis(2-chloroethyl) ether				10
69.	Bis(2-chloroisopropyl) ether				10
70.	Bis(2-ethylhexyl) phthalate				10
71.	4-Bromophenyl phenyl ether				10
<i>72.</i>	Butyl benzyl phthalate				10
<i>73.</i>	2-Chl oronapthal ene				10
74.	4-Chlorophenyl phenyl ether				10
<i>75.</i>	Chrysene				5
76.	Di benzo (a, h) anthracene				5
<i>77.</i>	1, 2-Di chl orobenzene				10
<i>78.</i>	1, 3-Di chl orobenzene				10
79.	1, 4-Di chl orobenzene				10
80.	3, 3' -Di chl orobenzi di ne				5
81.	Diethyl Phthalate				10
<i>82.</i>	Dimethyl Phthalate				10
<i>83.</i>	Di-n-Butyl Phthalate				10
84.	2, 4-Di ni trotol uene				10
<i>85.</i>	2, 6-Di ni trotol uene				10
86.	Di-n-octyl Phthalate				10

		LAE			
	BASE/NEUTRAL COMPOUNDS	RESULTS (μg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (μg/I)	REQUI RED MQL (μg/I)
<i>87.</i>	1, 2-Di phenyl hydrazi ne				20
89.	FI uorene				10
90.	Hexachl orobenzene				5
91.	Hexachl orobutadi ene				10
92.	Hexachl orocycl opentadi ene				10
93.	Hexachl oroethane				20
94.	Indeno (1, 2, 3-cd) pyrene (2, 3-o-phenyl ene pyrene)				5
95.	Isophorone				10
96.	Naphthal ene				10
97.	Ni trobenzene				10
98.	N-ni trosodi methyl ami ne				50
99.	N-ni trosodi -n-propyl ami ne				20
100.	N-ni trosodi phenyl ami ne				20
101.	Phenanthrene				10
102.	Pyrene				10
103.	1, 2, 4-Tri chl orobenzene				10

	LAE			
PESTI CI DES	RESULTS (μg/l)	APPROVED EPA METHOD USED	DETECTI ON LEVEL ACHI EVED (µg/I)	REQUI RED MQL (μg/I)
104. Al dri n				0. 01
105. Al pha-BHC				0. 05
106. Beta-BHC				0. 05
107. Gamma-BHC				0. 05
108. Del ta-BHC				0. 05
109. Chl ordane				0. 2
110. 4, 4' -DDT				0. 02
111. 4, 4' -DDE (p, p-DDX)				0. 1
112. 4, 4' -DDD 9(p, p-TDE)				O. 1
113. Di el dri n				0. 02
114. Al pha-endosul fan				0. 01
115. Beta-endosul fan				0. 02
116. Endosul fan sul fate				0. 1
117. Endri n				0. 02
118. Endri n al dehyde				0. 1
119. Heptachlor				0. 01
120. Heptachl or epoxi de (BHC-hexachl orocycl ohexane)				0. 01
130. Chl orpyri fos				0. 07
121. PCB-1242				0. 2
122. PCB-1254				0. 2
123. PCB-1221				0. 2
124. PCB-1232				0. 2
125. PCB-1248				0. 2
126. PCB-1260				0. 2
127. PCB-1016				0. 2
128. Toxaphene		<u> </u>		0. 3