MEMORANDUM
DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Division

Subject: Guidance Memorandum No. 96-009
Obtaining Dissolved Metals Data - Amendment #1

To: Regional Directors

From: Larry G. Lawson, P.E.

Date: December 2, 1996

Copies: Regional Permit Managers, Regional Water Permit Managers, Regional Compliance and Enforcement Managers, Alan Anthony, Martin Ferguson, Ron Gregory, Amy Clarke

The special monitoring condition (Appendix A, Guidance Memorandum No. 96-009, Dated November 19, 1996) contains references to wasteload allocations (footnote i) that do not appear elsewhere in the permit. This would result in a permit that contains unspecified conditions. In order to correct this oversight please utilize the attached condition in lieu of the earlier one.

Note: Generally, the wasteload allocations are not calculated until appropriate data exists for analysis. However, this revision will require the permit writer to determine, up-front, wasteload allocations for inclusion in the special condition for the metals referenced by footnote i. This is necessary to provide the discharger with the bases for selection of a proper analysis and target quantification level for collection of adequate and reliable metals data. This does not apply to the remaining materials for which both method and quantification numbers are given in the condition.

Revised Special Monitoring Condition
For Guidance document #96-009
December 2, 1996

Notice: This revised condition replaces the ones contained in Appendix A of guidance document #93-015, Appendix A in guidance document #94-008 and Appendix A in guidance document #96-009 (dated November 19, 1996)

Permit writers should use the condition here in lieu of the earlier ones.

The permittee shall monitor the effluent at outfall xxx for the following substances according to the indicated sample type and frequency. The data shall be submitted with the DMR following the month in which the analyses were conducted. It is the responsibility of the permittee to ensure that the proper QA/QC protocols are followed during the sampling and analytical procedures. The Department will use this data for making specific permit decisions in the future. This permit may be modified or alternatively revoked and reissued to incorporate limits for any the substances listed below.

Chemical	Analysis Number	Quantification level	Sample type	Frequency	Wasteload Allocation
Metals					
Arsenic	(i)	(i)	g or 3g		
Barium	(i)	(i)	g or 3g		
Cadmium	(i)	(i)	g or 3g		
Chromium III *	(i)	(i)	g or 3g		
Chromium VI (dissolved)	(i)	(i)	g or 3g		
Copper	(i)	(i)	g or 3g		
Iron	(i)	(i)	g or 3g		
Lead	(i)	(i)	g or 3g		
Manganese	(i)	(i)	g or 3g		
Mercury	(i)	(i)	g or 3g		
Nickel	(i)	(i)	g or 3g		
Selenium	(i)	(i)	g or 3g		
Silver	(i)	(i)	g or 3g		
Zinc	(i)	(i)	g or 3g		
Pesticides/PCBs					
Aldrin	608	0.05	3g		
Chlorpyrifos (Dursban)	622	---	3g		
Chlordane	608	0.2	3g		
DDT	608	0.1	3g		
Demeton	(ii)	---	3g		
2,4 dichlorophenoxy acetic acid (2,4,D)	(ii)	---	3g		
Dieldrin	608	0.1	3g		
Endosulfan I	608	0.1	3g		
Endosulfan II	608	0.1	3g		
Endosulfan sulfate	608	0.1	3g		
Endrin	608	0.1	3g		
Guthion	622	---	3g		
Heptachlor	608	0.05	3g		
Hexachlorocyclohexane (Lindane)	608	0.05	3g		
Malathion	(ii)	---	3g		
Methoxychlor	(ii)	---	3g		
Mirex	(ii)	---	3g		
Parathion	(ii)	---	3g		
PCB-1242	608	1.0	3g		
PCB-1254	608	1.0	3g		
PCB-1221	608	1.0	3g		
PCB-1232	608	1.0	3g		
PCB-1248	608	1.0	3g		
PCB-1260	608	1.0	3g		
PCB-1016	608	1.0	3g		
2,4,5 Trichlorophenoxy propionic acid (silvex)	(ii)	---	3g		
Toxaphene	608	5.0	3g		

Chemical	Analysis Number	Quantification level	Sample type	Frequency
Base Neutral				
Anthracene	625	10.0	3g	
Benzo(a)anthracene	625	10.0	3g	
Benzo(b)fluoranthene	625	10.0	3g	
Benzo(k)fluoranthene	625	10.0	3g	
Benzo (a) pyrene	625	10.0	3g	
Chrysene	625	10.0	3g	
Dibenz(a,h)anthracene	625	20.0	3g	
1,2 Dichlorobenzene	625	10.0	3g	
1,3 Dichlorobenzene	625	10.0	3g	
1,4 Dichlorobenzene	625	10.0	3g	
2,4 Dinitrotoluene	625	10.0	3g	
Di-2-Ethylhexyl Phthalate	625	10.0	3g	
Fluoranthene	625	10.0	3g	
Isophorone	625	10.0	3g	
Indeno(1,2,3-cd)pyrene	625	20.0	3g	
Naphthalene	625	10.0	3g	
Pyrene	625	10.0	3g	
Volatiles				
Benzene	624	10.0	3g	
Bromoform	624	10.0	3g	
Carbon Tetrachloride	624	10.0	3g	
Chlorodibromomethane	624	10.0	3g	
Chloroform	624	10.0	3g	
Chloromethane	624	20.0	3g	
Dichloromethane	624	20.0	3g	
Dichlorobromomethane	624	20.0	3g	
1,2 Dichloroethane	624	10.0	3g	
Ethylbenzene	624	10.0	3g	
Monochlorobenzene	624	50.0	3g	
Tetrachloroethylene	624	10.0	3g	
Toluene	624	10.0	3g	
Trichloroethylene	624	10.0	3g	
Vinyl Chloride	624	10.0	3g	
Acid Extractables				
Pentachlorophenol	625	50.0	3g	
Phenol	625	10.0	3g	
2,4,6 trichlorophenol	625	10.0	3g	
Miscellaneous				
Ammonia as NH3-N	350.1	200	c	
Total Residual Chlorine	(ii)	100	g	
Cyanide	335.3	10.0	g	
Dioxin	1613	0.00001	c	
Hardness	(ii)	---	c	
Sulfate	(ii)	---	c	
Tributyltin	(ii)	---	c	
xylenes (total)	846/8020	---	3g	

Units for the quantification level are micrograms/liter unless otherwise specified.

* If the result of the total chromium analysis is less than or equal to 10 ug/l the result for chromium III can be reported as not quantifiable.

** Requires continuous extraction

Sample type: c = 24 hour composite unless otherwise specified
g = grab
3g = 1 grab sample every 8 hours. The permittee shall analyze each sample individually and report the average of the three samples.

(i) A specific analysis is not specified for these materials. An appropriate analysis shall be selected from the following list of EPA methods to achieve a quantification level that is less than the wasteload allocation for the material under consideration:

Arsenic - 206.2, 206.3, 200.7, 200.8, 200.9, 1632
Barium - 200.8, 200.9, 1637, 1638, 1639, 1640
Cadmium - 213.1, 213.2, 200.7, 200.8, 200.9, 1637, 1638, 1639,1640
Chromium - 218.1, 218.2, 218.3, 200.7, 200.8, 200.9, 1639
Chromium VI - 218.4, 1636
Copper - 220.1, 220.2, 200.7, 200.8, 200.9, 1638, 1640
Iron - 236.1, 236.2, 200.7
Lead - 239.1, 239.2, 200.8, 200.9, 1637, 1640
Manganese - 243.1, 243.2, 200.7, 200.8, 200.9
Mercury - 245.1, 200.7, 200.8, 1631
Nickel - 249.1, 249.2, 200.7, 200.8, 200.9, 1638, 1639, 1640
Selenium - 270.2, 200.7, 200.8, 200.9, 1638, 1639
Silver - 272.1, 272.2, 200.7, 200.8, 200.9, 1638
Zinc - 289.1, 289.2, 200.7, 200.8, 1638, 1639

Quality control/assurance information shall be submitted to document that the required quantification level has been attained.

(ii) Any approved method presented in 40 CFR part 136.