Appendix VI: Minimum Levels

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC[1]	GCMS[2]	LC[3]	FAA[4]	Other
1. Total Suspended Solids (TSS)					**5 mg/l** **Method 160.2**
2. Total Residual Chlorine (TRC)					**Method 330.5**
3. Total Petroleum Hydrocarbons (TPH)					**5 mg/l** **Method 1664**
4. Cyanide (CN) **- 57125 -**				**10 ug/l** **Method 335.2**	
5. Benzene (B) **- 71432 -**	**0.5 ug/l** Method 602	**2** ug/l Method 624			
6. Toluene (T) **- 108883 -**	**0.5 ug/l** Method 602	**2 ug/l** Method 624			
7. Ethylbenzene (E) **- 100414 -**	**0.5 ug/l** Method 602	**2 ug/l** Method 624			
8. (m,p,o) Xylenes (X) **- 108383;106423; 95476-**		**10 ug/l** Method 1624			
9. Total BTEX	**0.5 ug/l** Method 602	**2 ug/l** Method 624			
10. Ethylene Dibromide (EDB) **(1,2- Dibromoethane) - 106934 -**	**1.0 ug/l** Method 618 **0.01 ug/l** Method 504.1	**0.1 ug/l** Methods 524.2 and 1624			

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
11. Methyl-tert-Butyl Ether (MtBE)		**5.0 ug/l** **Method 524.2**			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol) - 75650 -		**100 ug/l** **Method 1666**			
13. tert-Amyl Methyl Ether (TAME) **-994058-**					
14. Naphthalene **- 91203 -**	**10 ug/l** Method 612 GC/FID	**1 ug/l** Method 601	**0.2 ug/l** Method 610 HPLC		
15. Carbon Tetrachloride - 56235 -	**0.5 ug/l** Method 601	**2 ug/l** Methods 624, 1624			
16. 1,4 Dichlorobenzene (p-DCB) - 106467 -	**0.5 ug/l** Methods 601, 602	**2 ug/l** Methods 624, 625			
17. 1,2 Dichlorobenzene (o-DCB) - 95501 -	**0.5 ug/l** Methods 601, 602	**2 ug/l** Methods 624, 625			
18. 1,3 Dichlorobenzene (m-DCB) - 541731 -	**0.5 ug/l** Methods 601, 602	**2 ug/l** Methods 624, 625			
19. 1,1 Dichloroethane (DCA) - 75343 -	**0.5 ug/l** Method 601	**1 ug/l** Method 624			
20. 1,2 Dichloroethane (DCA)- 107062 -	**0.5 ug/l** Method 601	**2 ug/l** Method 624			

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
21. 1,1 Dichloroethylene (DCE) **- 75354 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
22. cis-1,2 Dichloro-ethylene (DCE) **-156592-**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
23. Dichloromethane (Methylene Chloride)- **75092 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
24. Tetrachloroethylene (PCE) **- 127184 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
25. 1,1,1 Trichloro-ethane (TCA) **- 71556** -	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
26. 1,1,2 Trichloro-ethane (TCA) **- 79005 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
27. Trichloroethylene (TCE) **- 79016 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
28. Vinyl Chloride **- 75014 -**	**0.5 ug/l** Method 601	**2 ug/l** Method 624			
29. Acetone **- 67641 -**	**1.0 ug/l** Method 524.2	**50 ug/l** Method 1624			
30. 1,4 Dioxane **-123911-**	**2 ug/l** mod. 8260[5]	**50 ug/l** Method 1624			
31. Total Phenols **- 108952**	**1.0 ug/l** **Method 624**	**1 ug/l** Methods 625, 1625			
32. Pentachlorophenol (PCP) **- 87865 -**	**1.0 ug/l** Method 604 GCFID	**5 ug/l** Methods 625, 1625			

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
33. Total Phthalates [6] **(Phthalate esthers)**		**5 ug/l** Method 625			
34. Bis (2-Ethylhexyl) Phthalate **[Di- (ethylhexyl) Phthalate]** **- 117817 -**	**10 ug/l** Method 606	**5 ug/l** Method 625			
35. Total Group I Polynuclear Aromatic Hydrocarbons (PAH)					
a. Benzo(a) Anthracene **-56553-**	**10 ug/l** Method 610 GC	**5 ug/l** Method 625	0.05 ug/l Method 610 HPLC		
b. Benzo(a) Pyrene **-50328 -**		**10 ug/l** Method 625	**2 ug/l** Method 610 HPLC		
c. Benzo(b)Fluoranthene **- 205992 -**		**10 ug/l** Method 625	**0.1 ug/l** Method 610 HPLC		
d. Benzo(k)Fluoranthene **- 207089 -**		**10 ug/l** Method 625	**2 ug/l** Method 610 HPLC		
e. Chrysene **- 218019 -**		**10 ug/l** Method 625	**5 ug/l** Method 610 HPLC		
f. Dibenzo(a,h) **anthracene**		**10 ug/l** Method 625	**0.1 ug/l** Method 610 HPLC		
g. Indeno(1,2,3-cd) Pyrene **- 193395 -**		**10 ug/l** Method 625	**0.15 ug/l** Method 610		

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
36. Total Group II Polynuclear Aromatic Hydrocarbons (PAH)					
h. Acenaphthene **- 83329 -**	**1 ug/l** Method 610 GC/FID	**1 ug/l** Method 625	**0.5 ug/l** Method 610 HPLC		
i. Acenaphthylene **- 208968 -**		**10 ug/l** Method 625	**0.2 ug/l** Method 610 HPLC		
j. Anthracene **- 120127 -**		**10 ug/l** Method 625	**2 ug/l** Method 610 HPLC		
k. Benzo(ghi) Perylene **- 191242 -**		**5 ug/l** Method 625	**0.1 ug/l** Method 610 HPLC		
l. Fluoranthene **- 206440 -**	**10 ug/l** Method 610 GC/FID	**1 ug/l** Method 625	**0.5 ug/l** Method 610 HPLC		
m. Fluorene **- 86737 -**		**10 ug/l** Method 625	**0.1 ug/l** Method 610 HPLC		
n. Naphthalene **- 91203 -**	**10 ug/l** Method 610 GC/FID	**1 ug/l** Method 601	**0.2 ug/l** Method 610 HPLC		
o. Phenanthrene **- 85018 -**		**5 ug/l** Method 625	**0.05 ug/l** Method 610 HPLC		

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	**GCMS**	**LC**	**FAA**	**Other**
p. Pyrene **- 129000 -**		**10 ug/l** Method 625	**0.05 ug/l** Method 610 HPLC		
37. Total Polychlorinated Biphenyls (PCBs)[7]	**0.5 ug/l** Method 608				**0.00005** Method 1668a[8]

1. GC - gas chromatography

2. GCMS - gas chromatography/mass spectrometry

3. LC - high pressure liquid chromatography

4. Flame Atomic Absorption

5. Region 1 EPA OEME method. Heated purge and trap being used at present time.

6. The sum of individual phthalate compounds.

7. In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as *"total PCBs is the sum of all homologue, all isomer, all congener, or all Aroclor analyses"*.

8. Method 1668a (HRGC/HRMS) has been proposed by EPA and is currently being validated. When approval of the method is finalized, it will be approved for use with this general permit.