(100)

Worksheet #9b
Contaminants of Concern

This "worksheet" consists of six lists of analytes, one for each state, presented in the following order:

- CT
- MA
- ME
- NH
- RI
- VT

The explanations for the codes used are found at the end of each list.

Maximum contaminant levels (MCLs) are prescribed in 40 CFR 141 for each analyte. Labs must be able to perform quantitative analyses at these levels using specific analytical methods, which are also prescribed in 40 CFR 141.

For some categories of analytes, the regulations in 40 CFR 141 specify that either mandated MDLs or "trigger limits" must be achieved. (A "trigger limit" is a concentration above which a public water utility must increase the frequency at which it monitors for a specific analyte.) For example, an MDL of 0.5 ug/L must be achieved for each volatile organic compound, and trigger limits are specified for many of the synthetic organic compounds.

MCLs, trigger limits, and mandated MDLs may be found throughout 40 CFR 141. A "Table of Contents" is found at the very beginning of this regulation to assist the reader in locating the appropriate regulation.

Occasionally, a required MDL is specified by an EPA-approved analytical method. For example, EPA method 504.1 specifies that the analyst must demonstrate weekly that he/she can achieve an MDL of 0.02 ug/L for ethylene dibromide and dibromochloropropane.

	CT			
Inorganic Contaminants				
Antimony	R			
Arsenic	R			
Asbestos	R			
Barium	R			
Beryllium	R			
Cadmium	R			
Chromium	R			
Copper	A			
Cyanide	R			
Fluoride	R			
Lead	A			
Mercurry	R			
Nitrate as N	R			
Nitrite as N	R			
Selenium	R			
Thallium	R			
Sodium	A			
Nickel	R			
Chlorate	R			
Bromate	R			
Chlorine	R			
Chlorite	R			
Chloramines	R			
Organic Contaminants				
Acrylamide	AW			
Alachlor	AW			
Atrazine	AW			
Benzene	AW			
Benzo(a)pyrene	AW			
Carbofuran	AW			
Carbon tetrachloride	AW			
Chlordane	AW			
2,4-D	AW			
Dalapon	AW			
1,2-Dibromo- 3-chloropropane (DBCP)	AW			
o-Dichlorobenzene	AW			
p-Dichlorobenzene	AW			
1,2-Dichloroethane	AW			
1,1-Dichloroethylene	AW			
cis-1,2-Dichloroethylene	AW			
trans-1,2-Dichloroethylene	AW			
Dichloromethane	AW			
1,2-Dichloropropane	AW			
Di(2-ethylhexyl)adipate	AW			

	CT			
Organic Contaminants				
Di(2-ethylhexyl)phthalate	AW			
Dinoseb	AW			
Dioxin (2,3,7,8-TCDD)	AW			
Diquat	AW			
Endothall	AW			
Endrin	AW			
Epichlorohydrin	AW			
Ethylbenzene	AW			
Ethylene dibromide	AW			
Glyphosate	AW			
Heptachlor	AW			
Heptachlor epoxide	AW			
Hexachlorobenzene	AW			
Hexachlorocyclopentadiene	AW			
Lindane	AW			
Methoxychlor	AW			
Oxamyl (Vydate)	AW			
Polychlorinated biphenyls (PCBs)	AW			
Pentachlorophenol	AW			
Decachlorobiphenyl	AW			
Picloram	AW			
Simazine	AW			
Styrene	AW			
Tetrachloroethylene	AW			
Toluene	AW			
Total Trihalomethanes (TTHMs)	AW			
Toxaphene	AW			
2,4,5-TP (Silvex)	AW			
1,2,4-Trichlorobenzene	AW			
1,1,1-Trichloroethane	AW			
1,1,2-Trichloroethane	AW			
Trichloroethylene	AW			
Vinyl chloride	AW			
Xylenes	AW			
Monochlorobenzene	M			
Total HAA5	R			
Microbial Contaminants				
Heterotrophic plate count	R			
Total coliforms	R			
Fecal coliform	R			
E.Coli	R			
Turbidity	R			
Viruses (enteric)	R			
Giardia Lamblia	R			

	CT			
Radiochemicals				
Beta/photon emitters	R			
Gross alpha particle activity	R			
Radium 226	R			
Radium 228	R			
Radon	R			
Uranium	R			
Tritium	R			
Strontium-90/89	R			
Cesium-134	U			
Iodine-131	U			
Secondary Contaminants				
Aluminum	A			
Chloride	R			
Color	A			
Copper	A			
Corrosivity	A			
Fluoride	R			
Foaming Agents	A			
Iron	A			
Manganese	A			
Odor	A			
pH	A			
Silver	R			
Sulfate	M			
Total dissolved solids (TDS)	A			
Zinc	A			
Turbidity (NTU)	A			
Alkalinity total (CaCO3)	A			
Hardness (CaCO3)	A			
Calcium	A			
Magnesium	A			
Potassium	A			
Sodium	A			
Orthophosphate	A			
Conductivity	A			
MPA	D			
R=Regulate standard; A=Advisory standard				
AW=Allowable waiver				
M= Monitoring requirement				
MF=Monitored for but not required				
U=Upon request due to nuclear drill or nuclear incident				
D=Groundwater source under the direct influence of surface water				

	CT			
Unregulated Contaminants				
Chloroform	M			
Bromodichloromethane	M			
Chlorodibromomethane	M			
Bromoform	M			
Dibromomethane	M			
m-Dichlorobenzene	M			
1,1-Dichloropropene	M			
1,1-Dichloroethane	M			
1,1,2,2-tetrachloroethane	M			
1,3-Dichloropropane	M			
Chloromethane	M			
Bromomethane	M			
1,2,3-Trichloropropane	M			
1,1,1,2-Tetrachloroethane	M			
Chloroethane	M			
2,2-Dichloropropane	M			
o-Chlorotoluene	M			
p-Chlorotoluene	M			
Bromobenzene	M			
1,3-Dichloropropene	M			
1,2,4-Trimethylbenzene	M			
1,2,3-Trichlorobenzene	M			
n-Propylbenzene	M			
n-Butylbenzene	M			
Naphthalene	M			
Hexachlorobutadiene	M			
1,3,5-Trimethylbenzene	M			
p-Isopropyltoluene	MF			
Isopropylbenzene	MF			
Tert-butylbenzene	MF			
Sec-butylbenzene	MF			
Fluorotrichloromethane	MF			
Dichlorodifluoromethane	MF			
Bromochloromethane	MF			
Aldicarb	M			
Aldicarb sulfone	M			
Aldicarb Sulfoxide	M			
Aldrin	M			
Butachlor	M			
Carbaryl	M			
Dicamba	M			
Dieldrin	M			
3-Hydroxycarbofuran	M			
Methomyl	M			
Metolachlor	M			
Metribuzin	M			

	CT			
Unregulated Contaminants				
Propachlor	M			
2,4-Dinitrotoluene	S			
2,6-Dinitrotoluene	S			
Acetochlor	S			
DCPA mono-acid	S			
DCPA di-acid	S			
4,4'-DDE	S			
EPTC	S			
Molinate	S			
Nitrobenzene	S			
Perchlorate	S			
Terbacil	S			
cis-1,3-Dichloropropene	S			
tran-1,3-Dichloropropene	S			
Chlorobenzene	S			
Methyl Tertiary Butyl Ether (MTBE)	M			
2-Hexanone	MF			
Acetone	MF			
Petroleum Hydrocarbons	A			
Tetrahydrofuran	M			
Freon 113	MF			
A=Advisory standard				
M=Monitoring requirement				
MF=Monitored for but not required				
S=some systems are monitoring these contaminants under UCMR				

	MA				
Inorganic Contaminants					
Antimony	R				
Arsenic	R				
Asbestos	SWW				
Barium	R				
Beryllium	R				
Cadmium	R				
Chromium	R				
Copper	AL				
Cyanide	R				
Fluoride	R				
Lead	AL				
Mercurry	R				
Nitrate as N	R				
Nitrite as N	R				
Selenium	R				
Thallium	R				
Sodium	A				
Nickel	A				
Chlorate	R				
Bromate	R				
Chlorine	R				
Chlorite	R				
Chloramines	R				
Organic Contaminants					
Acrylamide	AW				
Alachlor	AW				
Atrazine	AW				
Benzene	AW				
Benzo(a)pyrene	AW				
Carbofuran	AW				
Carbon tetrachloride	AW				
Chlordane	AW				
2,4-D	AW				
Dalapon	AW				
1,2-Dibromo- 3-chloropropane (DBCP)	W2				
o-Dichlorobenzene	AW				
p-Dichlorobenzene	AW				
1,2-Dichloroethane	AW				
1,1-Dichloroethylene	AW				
cis-1,2-Dichloroethylene	AW				
trans-1,2-Dichloroethylene	AW				
Dichloromethane	AW				
1,2-Dichloropropane	AW				
Di(2-ethylhexyl)adipate	AW				

	MA				
Organic Contaminants					
Di(2-ethylhexyl)phthalate	R				
Dinoseb	R				
Dioxin (2,3,7,8-TCDD)	SWW				
Diquat	SWW				
Endothall	SWW				
Endrin	R				
Epichlorohydrin	R				
Ethylbenzene	R				
Ethylene dibromide	W2				
Glyphosate	SWW				
Heptachlor	R				
Heptachlor epoxide	R				
Hexachlorobenzene	R				
Hexachlorocyclopentadiene	R				
Lindane	R				
Methoxychlor	R				
Oxamyl (Vydate)	R				
Polychlorinated biphenyls (PCBs)	R				
Pentachlorophenol	R				
Decachlorobiphenyl	R				
Picloram	R				
Simazine	R				
Styrene	R				
Tetrachloroethylene	R				
Toluene	R				
Total Trihalomethanes (TTHMs)	R				
Toxaphene	R				
2,4,5-TP (Silvex)	R				
1,2,4-Trichlorobenzene	R				
1,1,1-Trichloroethane	R				
1,1,2-Trichloroethane	R				
Trichloroethylene	R				
Vinyl chloride	R				
Xylenes	R				
Monochlorobenzene	R				
Total HAA5	R				
Microbial Contaminants					
Heterotrophic plate count	R				
Total coliforms	R				
Fecal coliform	R				
E.Coli	R				
Turbidity	R				
Viruses (enteric)	TT				
Giardia Lamblia	TT				

	MA
Radiochemicals	
Beta/photon emitters	R
Gross alpha particle activity	R
Radium 226	R
Radium 228	R
Radon	A
Uranium	A
Tritium	R
Strontium-90/89	R
Cesium-134	R
Iodine-131	R
Secondary Contaminants	
Aluminum	A
Chloride	A
Color	A
Copper	A
Corrosivity	A
Fluoride	A
Foaming Agents	A
Iron	A
Manganese	A
Odor	A
pH	A
Silver	A
Sulfate	A
Total dissolved solids (TDS)	A
Zinc	A
Turbidity (NTU)	A
Alkalinity total (CaCO3)	A
Hardness (CaCO3)	A
Calcium	A
Magnesium	A
Potassium	A
Sodium	A
Orthophosphate	A
Conductivity	A
MPA	D

R=Regulate standard; A=Advisory standard

AW=Allowable waiver

AL=Action Level

SWW=State wide waiver

TT=Treatment technique

W2=Waiver for surface water

S=Some systems are monitoring these contaminants under UCMR

D=Groundwater source under the direct influence of surface water

	MA				
Unregulated Contaminants					
Chloroform	M				
Dieldrin	M				
3-Hydroxycarbofuran	M				
Methomyl	M				
Metolachlor	M				
Metribuzin	M				
Propachlor	M				
Unregulated Contaminants					
2,4-Dinitrotoluene	UCMR				
2,6-Dinitrotoluene	UCMR				
Acetochlor	UCMR				
DCPA mono-acid	UCMR				
DCPA di-acid	UCMR				
4,4'-DDE	UCMR				
EPTC	UCMR				
Molinate	UCMR				
Methyl Tertiary Butyl Ether (MTBE)	SMCL				
Nitrobenzene	UCMR				
Perchlorate	UCMR				
Terbacil	UCMR				
Acetone	ORSG				
1,4-Dioxane	ORSG				
Ethylene Glycol	ORSG				
Methyl Isobutyl Ketone	ORSG				
Tetrahydrofuran	ORSG				
Freon 113	ORSG				
M=Monitoring requirement					
UCMR=Applies to systems that are subject to EPA's direct implementation rules					
SMCL=Secondary MCL					
ORSG=Office of Research and Standards Guideline					

	ME			
Inorganic Contaminants				
Antimony	R			
Arsenic	R			
Asbestos	AW			
Barium	R			
Beryllium	R			
Cadmium	R			
Chromium	R			
Copper	R			
Cyanide	R			
Fluoride	R			
Lead	R			
Mercurry	R			
Nitrate as N	R			
Nitrite as N	R			
Selenium	R			
Thallium	R			
Sodium	A			
Nickel	A			
Chlorate	R			
Bromate	R			
Chlorine	R			
Chlorite	R			
Chloramines	R			
Organic Contaminants				
Acrylamide	R			
Alachlor	AW			
Atrazine	AW			
Benzene	R			
Benzo(a)pyrene	AW			
Carbofuran	AW			
Carbon tetrachloride	R			
Chlordane	AW			
2,4-D	AW			
Dalapon	AW			
1,2-Dibromo- 3-chloropropane (DBCP)	AW			
o-Dichlorobenzene	R			
p-Dichlorobenzene	R			
1,2-Dichloroethane	R			
1,1-Dichloroethylene	R			
cis-1,2-Dichloroethylene	R			
trans-1,2-Dichloroethylene	R			
Dichloromethane	R			
1,2-Dichloropropane	R			
Di(2-ethylhexyl)adipate	AW			

	ME			
Organic Contaminants				
Di(2-ethylhexyl)phthalate	AW			
Dinoseb	AW			
Dioxin (2,3,7,8-TCDD)	AW			
Diquat	AW			
Endothall	AW			
Endrin	AW			
Epichlorohydrin	R			
Ethylbenzene	R			
Ethylene dibromide	AW			
Glyphosate	AW			
Heptachlor	AW			
Heptachlor epoxide	AW			
Hexachlorobenzene	AW			
Hexachlorocyclopentadiene	AW			
Lindane	AW			
Methoxychlor	AW			
Oxamyl (Vydate)	AW			
Polychlorinated biphenyls (PCBs)	AW			
Pentachlorophenol	AW			
Decachlorobiphenyl	AW			
Picloram	AW			
Simazine	AW			
Styrene	R			
Tetrachloroethylene	R			
Toluene	R			
Total Trihalomethanes (TTHMs)	R			
Toxaphene	AW			
2,4,5-TP (Silvex)	AW			
1,2,4-Trichlorobenzene	R			
1,1,1-Trichloroethane	R			
1,1,2-Trichloroethane	R			
Trichloroethylene	R			
Vinyl chloride	R			
Xylenes	R			
Total HAA5	R			
Microbial Contaminants				
Heterotrophic plate count	R			
Total coliforms	R			
Fecal coliform	R			
E.Coli	R			
Turbidity	R			
Viruses (enteric)	R			
Giardia Lamblia	R			

	ME			
Radiochemicals				
Beta/photon emitters	R			
Gross alpha particle activity	R			
Radium 226	R			
Radium 228	R			
Radon	R			
Uranium	R			
Tritium	R			
Strontium-90/89	R			
Secondary Contaminants				
Aluminum	A			
Chloride	A			
Color	A			
Copper	A			
Corrosivity	A			
Fluoride	A			
Foaming Agents	A			
Iron	A			
Manganese	A			
Odor	A			
pH	A			
Silver	A			
Sulfate	A			
Total dissolved solids (TDS)	A			
Zinc	A			
Turbidity (NTU)	A			
Alkalinity total (CaCO3)	A			
Hardness (CaCO3)	A			
Calcium	A			
Magnesium	A			
Potassium	A			
Sodium	A			
Orthophosphate	A			
Conductivity	A			
R=Regulate standard; A=Advisory standard				
AW=Allowable waiver				

	ME			
Unregulated Contaminants				
Chloroform	M			
Bromodichloromethane	M			
Chlorodibromomethane	M			
Bromoform	M			
Dibromomethane	M			
m-Dichlorobenzene	M			
1,1-Dichloropropene	M			
1,1-Dichloroethane	M			
1,1,2,2-tetrachloroethane	M			
1,3-Dichloropropane	M			
Chloromethane	M			
Bromomethane	M			
1,2,3-Trichloropropane	M			
1,1,1,2-Tetrachloroethane	M			
Chloroethane	M			
2,2-Dichloropropane	M			
o-Chlorotoluene	M			
p-Chlorotoluene	M			
Bromobenzene	M			
1,3-Dichloropropene	M			
1,2,4-Trimethylbenzene	M			
1,2,3-Trichlorobenzene	M			
n-Propylbenzene	M			
n-Butylbenzene	M			
Naphthalene	M			
Hexachlorobutadiene	M			
1,3,5-Trimethylbenzene	M			
p-Isopropyltoluene	MF			
Isopropylbenzene	MF			
Tert-butylbenzene	MF			
Sec-butylbenzene	MF			
Fluorotrichloromethane	MF			
Dichlorodifluoromethane	MF			
Bromochloromethane	MF			
Aldicarb	M			
Aldicarb sulfone	M			
Aldicarb Sulfoxide	M			
Aldrin	M			
Butachlor	M			
Carbaryl	M			
Dicamba	M			
Dieldrin	M			
3-Hydroxycarbofuran	M			
Methomyl	M			
Metolachlor	M			
Metribuzin	M			

	ME			
Unregulated Contaminants				
Propachlor	M			
2,4-Dinitrotoluene	S			
2,6-Dinitrotoluene	S			
Acetochlor	S			
DCPA mono-acid	S			
DCPA di-acid	S			
4,4'-DDE	S			
EPTC	S			
Molinate	S			
Nitrobenzene	S			
Perchlorate	S			
Terbacil	S			
Methyl Tertiary Butyl Ether (MTBE)	S			
M=Monitoring requirement				
S=Some systems are monitoring these contaminants under UCMR				
MF=Monitored for but not required				

	NH			
Inorganic Contaminants				
Antimony	R			
Arsenic	R			
Asbestos	AW			
Barium	R			
Beryllium	R			
Cadmium	R			
Chromium	R			
Copper	R			
Cyanide	R			
Fluoride	R			
Lead	R			
Mercurry	R			
Nitrate as N	R			
Nitrite as N	R			
Selenium	R			
Thallium	R			
Sodium	A			
Nickel	A			
Chlorate	R			
Bromate	R			
Chlorine	R			
Chlorite	R			
Chloramines	R			
Organic Contaminants				
Acrylamide	R			
Alachlor	R			
Atrazine	R			
Benzene	R			
Benzo(a)pyrene	R			
Carbofuran	R			
Carbon tetrachloride	R			
Chlordane	R			
2,4-D	AW			
Dalapon	R			
1,2-Dibromo-3-chloropropane (DBCP)	AW			
o-Dichlorobenzene	R			
p-Dichlorobenzene	R			
1,2-Dichloroethane	R			
1,1-Dichloroethylene	R			
cis-1,2-Dichloroethylene	R			
trans-1,2-Dichloroethylene	R			
Dichloromethane	R			
1,2-Dichloropropane	R			
Di(2-ethylhexyl)adipate	R			

	NH			
Organic Contaminants				
Di(2-ethylhexyl)phthalate	R			
Dinoseb	R			
Dioxin (2,3,7,8-TCDD)	AW			
Diquat	AW			
Endothall	AW			
Endrin	R			
Epichlorohydrin	R			
Ethylbenzene	R			
Ethylene dibromide	R			
Glyphosate	R			
Heptachlor	R			
Heptachlor epoxide	R			
Hexachlorobenzene	R			
Hexachlorocyclopentadiene	R			
Lindane	R			
Methoxychlor	R			
Oxamyl (Vydate)	R			
Polychlorinated biphenyls (PCBs)	AW			
Pentachlorophenol	R			
Decachlorobiphenyl	AW			
Picloram	R			
Simazine	R			
Styrene	R			
Tetrachloroethylene	R			
Toluene	R			
Total Trihalomethanes (TTHMs)	R			
Toxaphene	R			
2,4,5-TP (Silvex)	R			
1,2,4-Trichlorobenzene	R			
1,1,1-Trichloroethane	R			
1,1,2-Trichloroethane	R			
Trichloroethylene	R			
Vinyl chloride	R			
Xylenes	R			
Total HAA5	R			
Microbial Contaminants				
Heterotrophic plate count	R			
Total coliforms	R			
Fecal coliform	R			
E.Coli	R			
Turbidity	R			
Viruses (enteric)	R			
Giardia Lamblia	R			

	NH			
Radiochemicals				
Beta/photon emitters	R			
Gross alpha particle activity	R			
Radium 226	R			
Radium 228	R			
Radon	R			
Uranium	R			
Tritium	R			
Strontium-90/89	R			
Secondary Contaminants				
Aluminum	A			
Chloride	A			
Color	A			
Copper	A			
Corrosivity	A			
Fluoride	A			
Foaming Agents	A			
Iron	A			
Manganese	A			
Odor	A			
pH	A			
Silver	A			
Sulfate	A			
Total dissolved solids (TDS)	A			
Zinc	A			
Turbidity (NTU)	A			
Alkalinity total (CaCO3)	A			
Hardness (CaCO3)	A			
Calcium	A			
Magnesium	A			
Potassium	A			
Sodium	A			
Orthophosphate	A			
Conductivity	A			
R=Regulate standard; A=Advisory standard				
AW=Allowable waiver				

	NH			
Unregulated Contaminants				
Chloroform	M			
Bromodichloromethane	M			
Chlorodibromomethane	M			
Bromoform	M			
Dibromomethane	M			
m-Dichlorobenzene	M			
1,1-Dichloropropene	M			
1,1-Dichloroethane	M			
1,1,2,2-tetrachloroethane	M			
1,3-Dichloropropane	M			
Chloromethane	M			
Bromomethane	M			
1,2,3-Trichloropropane	M			
1,1,1,2-Tetrachloroethane	M			
Chloroethane	M			
2,2-Dichloropropane	M			
o-Chlorotoluene	M			
p-Chlorotoluene	M			
Bromobenzene	M			
1,3-Dichloropropene	M			
1,2,4-Trimethylbenzene	M			
1,2,3-Trichlorobenzene	M			
n-Propylbenzene	M			
n-Butylbenzene	M			
Naphthalene	M			
Hexachlorobutadiene	M			
1,3,5-Trimethylbenzene	M			
p-Isopropyltoluene	M			
Isopropylbenzene	M			
Tert-butylbenzene	M			
Sec-butylbenzene	M			
Fluorotrichloromethane	M			
Dichlorodifluoromethane	M			
Bromochloromethane	M			
Aldicarb	M			
Aldicarb sulfone	M			
Aldicarb Sulfoxide	M			
Aldrin	M			
Butachlor	M			
Carbaryl	M			
Dicamba	M			
Dieldrin	M			
3-Hydroxycarbofuran	M			
Methomyl	M			
Metolachlor	M			
Metribuzin	M			

	NH			
Unregulated Contaminants				
Propachlor	M			
2,4-Dinitrotoluene	S			
2,6-Dinitrotoluene	S			
Acetochlor	S			
DCPA mono-acid	S			
DCPA di-acid	S			
4,4'-DDE	S			
EPTC	S			
Molinate	S			
Nitrobenzene	S			
Perchlorate	S			
Terbacil	S			
Methyl Tertiary Butyl Ether (MTBE)	M			
Petroleum Hydrocarbons	M			
Tetrahydrofuran	M			
Freon 113	M			
1,4-Dioxane	M			
Ethylene Glycol	M			
Methyl Isobutyl Ketone	M			
M=Monitoring requirement				
S=Some systems are monitoring these contaminants under UCMR				

	RI					
Inorganic Contaminants						
Antimony	R					
Arsenic	R					
Asbestos	R					
Barium	R					
Beryllium	R					
Cadmium	R					
Chromium	R					
Copper	TT					
Cyanide	R					
Fluoride	R					
Lead	TT					
Mercurry	R					
Nitrate as N	R					
Nitrite as N	R					
Selenium	R					
Thallium	R					
Sodium	A					
Nickel	A					
Chlorate	R					
Bromate	R					
Chlorine	R					
Chlorite	R					
Chloramines	R					
Organic Contaminants						
Acrylamide	TT					
Alachlor	R					
Atrazine	R					
Benzene	R					
Benzo(a)pyrene	R					
Carbofuran	R					
Carbon tetrachloride	R					
Chlordane	R					
2,4-D	R					
Dalapon	R					
1,2-Dibromo-3-chloropropane (DBCP)	R					
o-Dichlorobenzene	R					
p-Dichlorobenzene	R					
1,2-Dichloroethane	R					
1,1-Dichloroethylene	R					
cis-1,2-Dichloroethylene	R					
trans-1,2-Dichloroethylene	R					
Dichloromethane	R					
1,2-Dichloropropane	R					
Di(2-ethylhexyl)adipate	R					

	RI					
Organic Contaminants						
Di(2-ethylhexyl)phthalate	R					
Dinoseb	R					
Dioxin (2,3,7,8-TCDD)	W1					
Diquat	SWW					
Endothall	R					
Endrin	R					
Epichlorohydrin	R					
Ethylbenzene	R					
Ethylene dibromide	R					
Glyphosate	SWW					
Heptachlor	R					
Heptachlor epoxide	R					
Hexachlorobenzene	R					
Hexachlorocyclopentadiene	R					
Lindane	R					
Methoxychlor	R					
Oxamyl (Vydate)	R					
Polychlorinated biphenyls (PCBs)	R					
Pentachlorophenol	R					
Decachlorobiphenyl	R					
Picloram	R					
Simazine	R					
Styrene	R					
Tetrachloroethylene	R					
Toluene	R					
Total Trihalomethanes (TTHMs)	R					
Toxaphene	R					
2,4,5-TP (Silvex)	R					
1,2,4-Trichlorobenzene	R					
1,1,1-Trichloroethane	R					
1,1,2-Trichloroethane	R					
Trichloroethylene	R					
Vinyl chloride	R					
Xylenes	R					
Total HAA5	R					
Microbial Contaminants						
Heterotrophic plate count	R					
Total coliforms	R					
Fecal coliform	R					
E.Coli	R					
Turbidity	TT					
Viruses (enteric)	TT					
Giardia Lamblia	TT					

	RI					
Radiochemicals						
Beta/photon emitters	R					
Gross alpha particle activity	R					
Radium 226	R					
Radium 228	R					
Radon	R					
Uranium	R					
Tritium	R					
Strontium-90/89	R					
Secondary Contaminants						
Aluminum	A					
Chloride	A					
Color	A					
Copper	TT					
Corrosivity	A					
Fluoride	R					
Foaming Agents	A					
Iron	A					
Manganese	A					
Odor	A					
pH	A					
Silver	A					
Sulfate	A					
Total dissolved solids (TDS)	A					
Zinc	A					
Turbidity (NTU)	A					
Alkalinity total (CaCO3)	A					
Hardness (CaCO3)	A					
Calcium	A					
Magnesium	A					
Potassium	A					
Sodium	A					
Orthophosphate	A					
Conductivity	A					
R=Regulate standard; A=Advisory standard						
W1=Waiver for ground water						
SWW=State wide waiver TT=Treatment technique+A89						

	RI					
Unregulated Contaminants						
Chloroform	M					
Bromodichloromethane	M					
Chlorodibromomethane	M					
Bromoform	M					
Dibromomethane	M					
m-Dichlorobenzene	M					
1,1-Dichloropropene	M					
1,1-Dichloroethane	M					
1,1,2,2-tetrachloroethane	M					
1,3-Dichloropropane	M					
Chloromethane	M					
Bromomethane	M					
1,2,3-Trichloropropane	M					
1,1,1,2-Tetrachloroethane	M					
Chloroethane	M					
2,2-Dichloropropane	M					
o-Chlorotoluene	M					
p-Chlorotoluene	M					
Bromobenzene	M					
1,3-Dichloropropene	M					
1,2,4-Trimethylbenzene	M					
1,2,3-Trichlorobenzene	M					
n-Propylbenzene	M					
n-Butylbenzene	M					
Naphthalene	M					
Hexachlorobutadiene	M					
1,3,5-Trimethylbenzene	M					
p-Isopropyltoluene	MF					
Isopropylbenzene	MF					
Tert-butylbenzene	MF					
Sec-butylbenzene	MF					
Fluorotrichloromethane	MF					
Dichlorodifluoromethane	MF					
Bromochloromethane	MF					
Aldicarb	M					
Aldicarb sulfone	M					
Aldicarb Sulfoxide	M					
Aldrin	M					
Butachlor	M					
Carbaryl	M					
Dicamba	M					
Dieldrin	M					
3-Hydroxycarbofuran	M					
Methomyl	M					
Metolachlor	M					
Metribuzin	M					

	RI					
Unregulated Contaminants						
Propachlor	M					
2,4-Dinitrotoluene	S					
2,6-Dinitrotoluene	S					
Acetochlor	S					
DCPA mono-acid	S					
DCPA di-acid	S					
4,4'-DDE	S					
EPTC	S					
Molinate	S					
Nitrobenzene	S					
Perchlorate	S					
Terbacil	S					
Methyl Tertiary Butyl Ether (MTBE)	M					
M=Monitoring requirement						
MF=Monitored for but not required						
S=Some systems are monitoring these contaminants under UCMR						

	VT					
Inorganic Contaminants						
Antimony	R					
Arsenic	R					
Asbestos	R					
Barium	R					
Beryllium	R					
Cadmium	R					
Chromium	R					
Copper	R					
Cyanide	R					
Fluoride	R					
Lead	R					
Mercurry	R					
Nitrate as N	R					
Nitrite as N	R					
Selenium	R					
Thallium	R					
Sodium	A					
Nickel	A					
Chlorate	R					
Bromate	R					
Chlorine	R					
Chlorite	R					
Chloramines	R					
Organic Contaminants						
Acrylamide	R					
Alachlor	R					
Atrazine	R					
Benzene	R					
Benzo(a)pyrene	R					
Carbofuran	R					
Carbon tetrachloride	R					
Chlordane	R					
2,4-D	R					
Dalapon	SWW					
1,2-Dibromo-3-chloropropane (DBCP)	SWW					
o-Dichlorobenzene	R					
p-Dichlorobenzene	R					
1,2-Dichloroethane	R					
1,1-Dichloroethylene	R					
cis-1,2-Dichloroethylene	R					
trans-1,2-Dichloroethylene	R					
Dichloromethane	R					
1,2-Dichloropropane	R					
Di(2-ethylhexyl)adipate	R					

	VT					
Organic Contaminants						
Di(2-ethylhexyl)phthalate	R					
Dinoseb	R					
Dioxin (2,3,7,8-TCDD)	SWW					
Diquat	SWW					
Endothall	SWW					
Endrin	R					
Epichlorohydrin	R					
Ethylbenzene	R					
Ethylene dibromide	SWW					
Glyphosate	SWW					
Heptachlor	R					
Heptachlor epoxide	R					
Hexachlorobenzene	R					
Hexachlorocyclopentadiene	R					
Lindane	R					
Methoxychlor	R					
Oxamyl (Vydate)	R					
Polychlorinated biphenyls (PCBs)	R					
Pentachlorophenol	R					
Decachlorobiphenyl	R					
Picloram	R					
Simazine	R					
Styrene	R					
Tetrachloroethylene	R					
Toluene	R					
Total Trihalomethanes (TTHMs)	R					
Toxaphene	R					
2,4,5-TP (Silvex)	R					
1,2,4-Trichlorobenzene	R					
1,1,1-Trichloroethane	R					
1,1,2-Trichloroethane	R					
Trichloroethylene	R					
Vinyl chloride	R					
Xylenes	R					
Total HAA5	R					
Microbial Contaminants						
Heterotrophic plate count	R					
Total coliforms	R					
Fecal coliform	R					
E.Coli	R					
Turbidity	R					
Viruses (enteric)	R					
Giardia Lamblia	R					

	VT					
Radiochemicals						
Beta/photon emitters	R					
Gross alpha particle activity	R					
Radium 226	R					
Radium 228	R					
Radon	R					
Uranium	R					
Tritium	R					
Strontium-90/89	R					
Secondary Contaminants						
Aluminum	A					
Chloride	A					
Color	A					
Copper	A					
Corrosivity	A					
Fluoride	A					
Foaming Agents	A					
Iron	A					
Manganese	A					
Odor	A					
pH	A					
Silver	A					
Sulfate	A					
Total dissolved solids (TDS)	A					
Zinc	A					
Turbidity (NTU)	A					
Alkalinity total (CaCO3)	A					
Hardness (CaCO3)	A					
Calcium	A					
Magnesium	A					
Potassium	A					
Sodium	A					
Orthophosphate	A					
Conductivity	A					
R=Regulate standard; A=Advisory standard						
SWW=State wide waiver						
M= Monitoring requirement						

	VT					
Unregulated Contaminants						
Chloroform	M					
Bromodichloromethane	M					
Chlorodibromomethane	M					
Bromoform	M					
Dibromomethane	M					
m-Dichlorobenzene	M					
1,1-Dichloropropene	M					
1,1-Dichloroethane	M					
1,1,2,2-tetrachloroethane	M					
1,3-Dichloropropane	M					
Chloromethane	M					
Bromomethane	M					
1,2,3-Trichloropropane	M					
1,1,1,2-Tetrachloroethane	M					
Chloroethane	M					
2,2-Dichloropropane	M					
o-Chlorotoluene	M					
p-Chlorotoluene	M					
Bromobenzene	M					
1,3-Dichloropropene	M					
1,2,4-Trimethylbenzene	M					
1,2,3-Trichlorobenzene	M					
n-Propylbenzene	M					
n-Butylbenzene	M					
Naphthalene	M					
Hexachlorobutadiene	M					
1,3,5-Trimethylbenzene	M					
p-Isopropyltoluene	MF					
Isopropylbenzene	MF					
Tert-butylbenzene	MF					
Sec-butylbenzene	MF					
Fluorotrichloromethane	MF					
Dichlorodifluoromethane	MF					
Bromochloromethane	MF					
Aldicarb	M					
Aldicarb sulfone	M					
Aldicarb Sulfoxide	M					
Aldrin	M					
Butachlor	M					
Carbaryl	M					
Dicamba	M					
Dieldrin	M					
3-Hydroxycarbofuran	M					
Methomyl	M					
Metolachlor	M					
Metribuzin	M					

	VT					
Unregulated Contaminants						
Propachlor	M					
2,4-Dinitrotoluene	S					
2,6-Dinitrotoluene	S					
Acetochlor	S					
DCPA mono-acid	S					
DCPA di-acid	S					
4,4'-DDE	S					
EPTC	S					
Molinate	S					
Nitrobenzene	S					
Perchlorate	S					
Terbacil	S					
Methyl Tertiary Butyl Ether (MTBE)	S					
M=Monitoring requirement						
MF=Monitored for but not required						
S=Some systems are monitoring these contaminants under UCMR						

EPA-NE QAPP Worksheet #9c - Rev. 10/99 – Modified for Drinking Water
Summarize by matrix the number of field and QC samples that will be collected for each analytical parameter and concentration level. (Refer to *QAPP Manual* Section 6.1 for guidance.)

Title:
Revision Number:
Revision Date:
Page: of

Field and Quality Control Sample Summary Table – Drinking Water

Analytical Parameter	Analytical Method (40 CFR 141)	No. of Sampling Locations[2]	No. of Field Duplicate Pairs	No. of Trip Blanks (as required by analytical methods)*	No. of Extra Volumes for Lab Duplicates & Spiked Samples		Total No. of Samples to Lab
Sampling teams should collect field duplicates at a frequency of 5% or one per sampling event, whichever is more frequent.							

*Required for methods 502.2, 504.1, 524.2, and 555; recommended for method 525.2.

130

Worksheet #9d
Analytical Services

Drinking water samples for compliance monitoring must be analyzed by laboratories certified by the lab certification (accreditation) program of the state in which the sampled water utility is located. State principal laboratories analyzing such samples are certified by EPA New England. EPA-approved methods must be used. Laboratories may use only those methods for which they have been certified. All approved drinking water methods are listed in the *Code of Federal Regulations 40 CFR 141.*

Information about certified labs may be found by contacting the state laboratory certification (accreditation) programs provided on the next page or by contacting the EPA New England Quality Assurance Unit* contact listed below. If the program has a web site, it is listed.

EPA New England contact for lab certification (accreditation) information:

Arthur E. Clark
EPA New England
11 Technology Drive
North Chelmsford, MA 01863

Telephone: 617-918-8374

Fax: 617-918-8397

Email: clark.arthur@epa.gov

(132)

New England Certification Officers
(Including Certification Program Web Sites)
9/13/00

	Name & Address	Phone Number	Fax Number
CT	Mr. Nicholas Macelletti Dept. of Public Health Certification Officer 450 Capitol Ave. MS#51-LAD P.O. Box 340308 Hartford, CT 06134-0308 **Web site:** http://www.state.ct.us/dph	860-509-7386	860-509-7378
MA	Ms. Ann Marie Allen Dept. of Environmental Protection Certification Officer 37 Shattuck St. Lawrence, MA 01843 **Web site:** http://www.state.ma.us/dep/bspt/wes/wespubs.htm	978-682-5237	978-688-0352
ME	Mr. John Nims Department of Human Services Certification Officer 12 State House Station Augusta, ME 04333	207-287-2727	207-287-6832
NH	Mr. Charles N. Dyer Department of Environmental Services Certification Officer P. O. Box 95 Concord, NH 03302-0095 **Web site:** http://www.des.state.nh.us/nhelap	603-271-2991	603-271-2997
RI	Dr. Ewa King, Ph.D Dept. of Health Laboratory QA/Certification Officer 50 Orms St. Providence, RI 02904-2283	401-222-5600	401-222-6985
VT	Mr. George Mills Department of Health Certification Officer & Program Chief 195 Colchester Ave. Burlington, VT 05401	802-863-7335	802-863-7632