Performance Evaluation Report
USEPA Water Supply Study WS036

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
TRACE METALS IN MICROGRAMS PER LITER:				
001-ARSENIC				
01	.	120	107- 136	
002-BARIUM				
02	.	1300	1110- 1500	
003-CADMIUM				
01	.	34.0	27.2- 40.8	
004-CHROMIUM				
01	.	37.8	32.1- 43.5	
005-LEAD				
01	.	39.0	27.3- 50.7	
006-MERCURY				
01	.	3.00	2.1- 3.9	
007-SELENIUM				
01	.	31.1	24.9- 37.3	
008-SILVER				
02	.	54.2	47.2- 60.2	
091-COPPER				
01	.	630	567- 693	
140-ANTIMONY				
02	.	11.0	7.7- 14.3	
141-BERYLLIUM				
01	.	7.70	6.55- 8.86	
142-NICKEL				
01	.	380	323- 437	
143-THALLIUM				
02	.	4.50	3.15- 5.85	
226-BORON				
02	.	480	444- 502	
235-ALUMINUM				
01	.	51.0	43.2- 67.3	
236-MANGANESE				
01	.	970	911- 1030	
237-MOLYBDENUM				
02	.	11.0	8.29- 13.9	
239-ZINC				
01	.	1410	1280- 1530	
NITRATE/NITRITE/FLUORIDE IN MILLIGRAMS PER LITER:				
009-NITRATE AS N				
01	.	2.90	2.61- 3.19	
010-FLUORIDE				
01	.	7.20	6.48- 7.92	
092-NITRITE AS N				
01	.	1.10	0.935- 1.27	

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INSECTICIDES IN MICROGRAMS PER LITER:				
011-ENDRIN				
01	.	0.383	0.268-0.498	
012-LINDANE				
01	.	0.429	0.236-0.622	
013-METHOXYCHLOR				
01	.	28.9	15.9- 41.9	
014-TOXAPHENE				
02	.	14.7	8.09- 21.3	
093-ALACHLOR				
05	.	7.34	4.04- 10.6	
094-ATRAZINE				
05	.	11.7	6.44- 17	
095-HEPTACHLOR				
04	.	0.751	0.413- 1.09	
097-CHLORDANE (TOTAL)				
03	.	16.7	9.19- 24.2	
112-HEXACHLOROCYCLOPENTADIEN				
04	.	4.71	0.133- 6.35	
113-SIMAZINE				
05	.	14.4	2.38- 22.5	
172-HEXACHLOROBENZENE				
04	.	0.847	0.322- 1.17	
240-BROMACIL				
06	.	43.8	10.5- 66.9	
241-METOLACHLOR				
06	.	34.8	11.5- 54.2	
242-METRIBUZIN				
06	.	15.7	2.51- 22.3	
243-PROMETON				
06	.	14.9	4.64- 21.9	
244-TRIFLURALIN				
04	.	4.33	2.81- 6.86	
256-ALDRIN				
04	.	0.980	0.323- 1.3	
257-BUTACHLOR				
06	.	16.2	8.32- 21.3	
258-DIELDRIN				
04	.	1.54	1.03- 2.08	
CARBAMATES IN MICROGRAMS PER LITER:				
098-ALDICARB				
01	.	42.7	29.8- 51.9	
099-ALDICARB SULFONE				
01	.	24.7	16.5- 31.4	

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Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
100-ALDICARB SULFOXIDE				
01	.	22.5	12.1- 29.5	
101-CARBOFURAN				
01	.	37.8	20.8- 54.8	
114-OXAMYL (VYDATE)				
01	.	34.1	23.6- 43.2	
245-METHOMYL				
01	.	67.7	50.2- 77.6	
HERBICIDES IN MICROGRAMS PER LITER:				
015-2,4-D				
01	.	38.6	19.3- 57.9	
016-2,4,5-TP (SILVEX)				
01	.	23.0	11.5- 34.5	
102-PENTACHLOROPHENOL				
01	.	14.6	7.3- 21.9	
115-DALAPON				
02	.	65.2	D.L. - 90.8	
116-DINOSEB				
02	.	47.2	D.L. - 78.6	
117-PICLORAM				
02	.	42.2	D.L. - 64.5	
247-DICAMBA				
02	.	73.8	1.62- 118	
POLYCHLORINATED BIPHENYLS IN MICROGRAMS PER LITER:				
118-DECACHLOROBIPHENYL				
01	.	1.13	D.L. - 2.26	
PAH'S IN MICROGRAMS PER LITER:				
119-ACENAPHTHALENE				
01	.		Not Present	
120-ANTHRACENE				
01	.	2.36	1.04- 2.82	
121-BENZO(A)ANTHRACENE				
01	.	0.871	0.386- 1.18	
122-BENZO(A)PYRENE				
01	.	0.636	0.0676-0.917	
123-BENZO(B)FLUORANTHENE				
01	.		Not Present	
124-BENZO(K)FLUORANTHENE				
01	.	0.851	0.108- 1.09	
125-BENZO(G,H,I)PERYLENE				
01	.		Not Present	
126-CHRYSENE				
01	.	2.30	0.604- 3.44	

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
127-DIBENZO(A,H)ANTHRACENE				
01	.		Not Present	
128-FLUORENE				
01	.		Not Present	
129-INDENO(1,2,3-C,D)PYRENE				
01	.		Not Present	
130-PHENANTHRENE				
01	.		Not Present	
131-PYRENE				
01	.		Not Present	
132-FLUORANTHENE				
01	.		Not Present	
133-NAPHTHALENE				
01	.	42.8	9.49- 60	
ADIPATE/PHTHALATES IN MICROGRAMS PER LITER:				
134-DI (2-ETHYLHEXYL)ADIPATE				
01	.	16.9	3.26- 25.8	
135-BUTYLBENZYL PHTHALATE				
01	.	15.9	1.67- 24.6	
136-DI (2-ETHYLHEXYL)PHTHAL.				
01	.	18.3	4.43- 30.5	
149-DI-N-BUTYL PHTHALATE				
01	.		Not Present	
150-DIETHYL PHTHALATE				
01	.	23.8	7.98- 37.9	
151-DIMETHYL PHTHALATE				
01	.	27.4	5.33- 38.5	
MISCELLANEOUS SOC’S IN MICROGRAMS PER LITER:				
137-DIQUAT				
01	.	14.7	D.L. - 32.9	
138-ENDOTHALL				
01	.	299	D.L. - 481	
139-GLYPHOSATE				
01	.	528	407- 638	
TRIHALOMETHANES IN MICROGRAMS PER LITER:				
017-CHLOROFORM				
01	.	21.7	17.4- 26	
018-BROMOFORM				
01	.	38.6	30.9- 46.3	
019-BROMODICHLOROMETHANE				
01	.	26.8	21.4- 32.2	
020-CHLORODIBROMOMETHANE				
01	.	34.2	27.4- 41	

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
021-TOTAL TRIHALOMETHANE				
01	.	121.3	97- 146	
VOLATILE ORGANIC COMPOUNDS IN MICROGRAMS PER LITER:				
032-VINYL CHLORIDE				
01	.	9.47	5.68- 13.3	
034-1,1-DICHLOROETHYLENE				
01	.	8.49	5.09- 11.9	
035-1,2-DICHLOROETHANE				
01	.	9.00	5.4- 12.6	
036-1,1,1-TRICHLOROETHANE				
01	.	14.5	11.6- 17.4	
037-CARBON TETRACHLORIDE				
01	.	12.6	10.1- 15.1	
038-TRICHLOROETHYLENE				
01	.	17.4	13.9- 20.9	
039-BENZENE				
01	.	7.49	4.49- 10.5	
040-TETRACHLOROETHYLENE				
02	.	18.5	14.8- 22.2	
041-1,4-DICHLOROBENZENE				
01	.	11.9	9.52- 14.3	
042-T 1,2 DICHLOROETHYLENE				
02	.	11.6	9.28- 13.9	
044-1,2 DICHLOROPROPANE				
02	.	16.4	13.1- 19.7	
045-1,2DIBROMO3CHLOROPROPANE				
04	.	0.196	0.118-0.274	
046-ETHYLENE DIBROMIDE (EDB)				
04	.	0.283	0.17-0.396	
047-TOLUENE				
02	.	13.2	10.6- 15.8	
048-ETHYLBENZENE				
02	.	14.8	11.8- 17.8	
049-CHLOROBENZENE				
02	.	16.3	13- 19.6	
053-STYRENE				
02	.	12.9	10.3- 15.5	
055-DICHLOROMETHANE				
01	.	12.3	9.84- 14.8	
056-1,1-DICHLOROETHANE				
03	.		Not Present	
057-DIBROMOMETHANE				
03	.	17.7	11.9- 21.6	
058-1,1-DICHLOROPROPENE				
03	.		Not Present	

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059-1,3-DICHLOROPROPANE				
03	.		Not Present	
060-2,2-DICHLOROPROPANE				
03	.		Not Present	
061-1,1,2-TRICHLOROETHANE				
01	.	6.46	3.88- 9.04	
062-BROMOFORM				
03	.		Not Present	
063-1,1,1,2TETRACHLOROETHANE				
03	.	12.3	9.36- 14.4	
064-1,2,3-TRICHLOROPROPANE				
03	.	12.8	7.46- 16.5	
065-1,1,2,2TETRACHLOROETHANE				
03	.		Not Present	
066-1,3-DICHLOROBENZENE				
03	.		Not Present	
067-BROMOBENZENE				
03	.		Not Present	
068-CHLOROMETHANE				
03	.		Not Present	
069-BROMOMETHANE				
03	.		Not Present	
070-CHLOROETHANE				
03	.		Not Present	
071-2-CHLOROTOLUENE				
03	.		Not Present	
072-4-CHLOROTOLUENE				
03	.		Not Present	
075-1,2,4-TRIMETHYLBENZENE				
03	.		Not Present	
076-1,2,4-TRICHLOROBENZENE				
02	.	12.6	10.1- 15.1	
077-1,2,3-TRICHLOROBENZENE				
03	.		Not Present	
078-N-PROPYLBENZENE				
03	.		Not Present	
079-N-BUTYLBENZENE				
03	.	12.6	9.63- 15.2	
081-HEXACHLOROBUTADIENE				
03	.	15.1	12- 19.5	
082-1,3,5-TRIMETHYLBENZENE				
03	.		Not Present	
083-4-ISOPROPYLTOLUENE				
03	.		Not Present	
084-ISOPROPYLBENZENE				
03	.		Not Present	

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Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
085-TERT-BUTYLBENZENE				
03	.		Not Present	
086-SEC-BUTYLBENZENE				
03	.		Not Present	
087-FLUOROTRICHLOROMETHANE				
03	.		Not Present	
088-DICHLORODIFLUOROMETHANE				
03	.		Not Present	
089-BROMOCHLOROMETHANE				
03	.		Not Present	
090-TOTAL XYLENES				
02	.	10.4	8.32- 12.5	
108-BROMODICHLOROMETHANE				
03	.		Not Present	
109-CHLORODIBROMOMETHANE				
03	.		Not Present	
110-CHLOROFORM				
03	.		Not Present	
152-C 1,3 DICHLOROPROPENE				
03	.	16.1	11.5- 18.6	
153-T 1,3 DICHLOROPROPENE				
03	.	6.89	4.77- 7.96	
ORGANIC DISINFECTION BY-PRODUCTS IN MICROGRAMS PER LITER:				
157-DIBROMOACETIC ACID				
01	.	10.9	3.5- 15	
158-DICHLOROACETIC ACID				
01	.	28.3	11.1- 39.2	
160-MONOBROMOACETIC ACID				
01	.	8.72	1.59- 15.8	
161-MONOCHLOROACETIC ACID				
01	.	14.6	0.0574- 24.5	
162-TRICHLOROACETIC ACID				
01	.	26.6	8.41- 44.4	
165-CHLORAL HYDRATE				
02	.		Not Present	
250-BROMOCHLOROACETIC ACID				
01	.	27.7	3.26- 43.8	
INORGANIC DISINFECTION BY-PRODUCTS IN MICROGRAMS PER LITER:				
193-BROMATE				
02	.	45.8	27.8- 68	
194-CHLORATE				
01	.	37.6	27.8- 58.4	
195-CHLORITE				
01	.	331	205- 509	

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Performance Evaluation
260-BROMIDE				
02	.	489	410- 573	
MISCELLANEOUS ANALYTES:				
022-RESIDUAL FREE CHLORINE(MILLIGRAMS PER LITER)				
01	.	0.562	0.408-0.715	
023-TURBIDITY(NTU'S)				
01	.	6.30	5.81- 8	
024-TOTAL FILTERABLE RESIDUE(MILLIGRAMS PER LITER)				
01	.	380	269- 626	
025-CALCIUM HARDNESS(MG. CACO3/L)				
01	.	215	202- 235	
026-PH-UNITS				
01	.	9.13	8.85- 9.32	
027-ALKALINITY(MG. CACO3/L)				
01	.	38.1	36.6- 44.9	
028-CORROSIVITY(LANGELIER IND. AT 20C)				
01	.	1.09	0.786- 1.36	
029-SODIUM(MILLIGRAMS PER LITER)				
01	.	17.5	16.5- 20.1	
144-CORROSIVITY(AGGRESSIVE IND. AT 20C)				
01	.	13.0	12.7- 13.3	
145-SULFATE(MILLIGRAMS PER LITER)				
01	.	81.0	71.9- 87.6	
146-TOTAL CYANIDE(MILLIGRAMS PER LITER)				
01	.	0.200	0.15- 0.25	
251-ETHYLENE THIOUREA (ETU)				
01	.	48.8	14.4- 65.1	
252-DIOXIN(IN PG/L)				
01	.	26.0	11.2- 39.4	
253-ASBESTOS(REPORTED VALUE IN MFL)				
01	.	6.0	D.L. - 10.7	

********** END OF DATA FOR **********
NOTE: FOR LIMITS AND TRUE VALUES, ASSUME THREE SIGNIFICANT DIGITS.
********** END OF REPORT FOR **********

* Based on gravimetric calculations, or a reference value when necessary.