Performance Evaluation Report
USEPA Water Pollution Study WP038

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Warning Limits	Performance Evaluation
TRACE METALS IN MICROGRAMS/LITER					
001-ALUMINUM					
01	.	1903	1690- 2150	1740- 2090	
002-ARSENIC					
01	.	410	344- 478	361- 461	
003-BERYLLIUM					
02	.	8.25	4.87- 11.2	5.66- 10.4	
004-CADMIUM					
01	.	69.0	58.5- 78.6	61.1- 76.1	
005-COBALT					
01	.	401	346- 456	360- 442	
006-CHROMIUM					
01	.	420	371- 473	384- 460	
007-COPPER					
01	.	277	252- 305	259- 298	
008-IRON					
01	.	2100	1890- 2280	1940- 2230	
009-MERCURY					
01	.	3.85	2.87- 4.3	3.04- 4.12	
010-MANGANESE					
01	.	1100	995- 1240	1030- 1210	
011-NICKEL					
01	.	188	168- 213	174- 207	
012-LEAD					
01	.	430	379- 480	392- 467	
013-SELENIUM					
01	.	1951	1570- 2220	1650- 2140	
014-VANADIUM					
01	.	7604	6890- 8310	7070- 8130	
015-ZINC					
01	.	1551	1360- 1760	1410- 1710	
016-ANTIMONY					
02	.	170	108- 206	120- 194	
017-SILVER					
02	.	60.0	51.7- 67.7	53.7- 65.7	
018-THALLIUM					
02	.	200	161- 230	170- 222	
074-MOLYBDENUM					
02	.	56.9	45.8- 65.4	48.3- 62.9	
075-STRONTIUM					
02	.	32.1	27.4- 36.9	28.6- 35.6	
076-TITANIUM					
02	.	48.9	40.9- 56	42.9- 54	

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MINERALS IN MILLIGRAMS/LITER (EXCEPT AS NOTED)					
020-SPEC. COND.(UMHOS/CM AT 25 C)					
01	.	887	804- 920	818- 906	
021-TDS AT 180 C					
01	.	512	440- 668	469- 639	
022-TOTAL HARDNESS(AS CACO3)					
01	.	229	208- 249	214- 244	
023-CALCIUM					
01	.	83.0	74.6- 92.9	76.9- 90.6	
024-MAGNESIUM					
01	.	5.30	4.51- 5.86	4.68- 5.69	
025-SODIUM					
01	.	68.3	61.3- 76.1	63.1- 74.2	
026-POTASSIUM					
01	.	12.5	10.9- 14.4	11.3- 14	
027-TOTAL ALKALINITY(AS CACO3)					
01	.	58.1	52.6- 64.1	54- 62.6	
028-CHLORIDE					
01	.	163	150- 176	154- 173	
029-FLUORIDE					
01	.	1.90	1.65- 2.12	1.71- 2.06	
030-SULFATE					
01	.	96.0	81.7- 109	85.1- 105	
NUTRIENTS IN MILLIGRAMS/LITER					
031-AMMONIA-NITROGEN					
01	.	2.80	2.16- 3.47	2.32- 3.31	
032-NITRATE-NITROGEN					
01	.	31.0	25.4- 35.7	26.7- 34.4	
033-ORTHOPHOSPHATE					
01	.	1.50	1.29- 1.72	1.34- 1.67	
034-KJELDAHL-NITROGEN					
02	.	24.0	18.3- 29.2	19.6- 27.9	
035-TOTAL PHOSPHORUS					
02	.	1.10	0.906- 1.33	0.956- 1.28	
DEMANDS IN MILLIGRAMS/LITER					
036-COD					
01	.	81.0	59.4- 95.7	64- 91	
037-TOC					
01	.	32.0	26.7- 37.2	28.1- 35.8	
038-5-DAY BOD					
01	.	50.3	26- 74.6	32.1- 68.5	
102-CARBONACEOUS BOD					
01	.	43.0	18.1- 68.6	24.7- 62	

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PCB'S IN MICROGRAMS/LITER					
040-PCB-AROCLOR 1016/1242					
01	.		Not Present		
02	.		Not Present		
042-PCB-AROCLOR 1232					
01	.	1.61	0.682- 2.37	0.897- 2.15	
02	.		Not Present		
044-PCB-AROCLOR 1248					
01	.		Not Present		
02	.	1.51	0.672- 1.96	0.835- 1.8	
045-PCB-AROCLOR 1254					
01	.		Not Present		
02	.		Not Present		
046-PCB-AROCLOR 1260					
01	.		Not Present		
02	.		Not Present		
PCB'S IN OIL IN MILLIGRAMS/KILOGRAM					
099-PCB IN OIL- 1016/1242					
01	.		Not Present		
02	.		Not Present		
100-PCB IN OIL- 1254					
01	.	32.7	0.983- 46.2	6.77- 40.4	
02	.		Not Present		
101-PCB IN OIL- 1260					
01	.		Not Present		
02	.	39.0	6.88- 53.6	12.9- 47.6	
PESTICIDES IN MICROGRAMS/LITER					
047-ALDRIN					
01	.	0.349	0.109-0.463	0.154-0.419	
048-DIELDRIN					
01	.	2.22	1.25- 2.99	1.47- 2.77	
049-DDD					
01	.	4.64	2.49- 6.53	3- 6.02	
050-DDE					
01	.	1.86	0.959- 2.45	1.15- 2.27	
051-DDT					
01	.	7.42	3.92- 9.31	4.6- 8.63	
052-HEPTACHLOR					
01	.	0.564	0.182-0.762	0.255-0.689	
053-CHLORDANE					
02	.	6.46	2.94- 9.13	3.72- 8.35	
078-HEPTACHLOR EPOXIDE					
01	.	0.244	0.135-0.319	0.159-0.296	

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VOLATILE HALOCARBONS IN MICROGRAMS/LITER					
054-1,2 DICHLOROETHANE					
01	.	32.8	21.2- 42.3	23.8- 39.7	
055-CHLOROFORM					
01	.	46.4	30.6- 51.5	33.2- 48.9	
056-1,1,1 TRICHLOROETHANE					
01	.	38.7	26.3- 42.8	28.3- 40.7	
057-TRICHLOROETHENE					
01	.	33.6	20.4- 40.3	22.9- 37.8	
058-CARBONTETRACHLORIDE					
01	.	44.8	27.9- 53.5	31.1- 50.3	
059-TETRACHLOROETHENE					
01	.	43.7	26.1- 55	29.7- 51.3	
060-BROMODICHLOROMETHANE					
01	.	50.3	33.5- 62.1	37.1- 58.5	
061-DIBROMOCHLOROMETHANE					
01	.	27.3	17.6- 34.8	19.8- 32.7	
062-BROMOFORM					
01	.	26.4	15.6- 36.1	18.1- 33.5	
063-METHYLENE CHLORIDE					
01	.	64.2	37.1- 75	41.8- 70.2	
064-CHLOROBENZENE					
01	.	37.7	26.4- 47.4	29.1- 44.7	
VOLATILE AROMATICS IN MICROGRAMS/LITER					
065-BENZENE					
01	.	13.3	9.69- 17.1	10.6- 16.2	
066-ETHYLBENZENE					
01	.	8.60	6.02- 10.5	6.59- 9.96	
067-TOLUENE					
01	.	12.7	9.21- 15.7	10- 14.8	
094-1,2-DICHLOROBENZENE					
01	.	34.7	25.1- 42.3	27.3- 40.1	
095-1,4-DICHLOROBENZENE					
01	.	25.4	18.6- 32.1	20.3- 30.4	
096-1,3-DICHLOROBENZENE					
01	.	18.3	13- 21.9	14.2- 20.8	
MISCELLANEOUS ANALYTES					
019-PH-UNITS					
01	.	6.58	6.44- 6.74	6.47- 6.7	
071-TOTAL CYANIDE(IN MG/L)					
01	.	0.190	0.119-0.259	0.137-0.241	
072-NON-FILTERABLE RESIDUE(IN MG/L)					
01	.	46.0	33.3- 48	35.1- 46.1	

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073-OIL AND GREASE (FREON EXTRACTION)(IN MG/L)					
01	.	12.2	4.35- 18.2	6.14- 16.4	
097-TOTAL PHENOLICS(IN MG/L)					
01	.	0.113	0.0402- 0.18	0.0584-0.162	
098-TOTAL RESIDUAL CHLORINE(IN MG/L)					
01	.	1.39	1.14- 1.73	1.22- 1.65	
104-OIL AND GREASE (HEXANE EXTRACTION)(IN MG/L)					
01	.	12.2	5.1- 17.6	6.61- 16.1	

********** 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.