

**WADSWORTH CENTER
NEW YORK STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORY APPROVAL PROGRAM**

Proficiency Test Report

Lab Id: 11642 USGS NATIONAL WATER LAB
 EPA Lab Code: MS 407-BLDG 95-DENVER FED CTR
 CO00009 DENVER, CO-80225-0046
 (303) 236-3500
 Director: MR. GREGORY MOHRMAN

Shipment Date : 15-Apr-2002
 Closing Date : 30-May-2002
 Score Date : 19-Jun-2002

This report may contain data that are not covered by the NVLAP accreditation.
 ** indicates NVLAP accredited analyte. Lab Code 200387-0. ELAP is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 252 Potable Water Chemistry

Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Diquat								
Diquat ** EPA Code: 0137	ug/L	5210	EPA 549.2	8.39	15.9		3.41 - 28.3	Satisfactory <i>15 passed out of 15 reported results.</i>
Sample: Potable Water Metals								
Arsenic, Total ** EPA Code: 0001	ug/L	5206	EPA 200.9	36.9	37.8		33.2 - 42.5	Satisfactory <i>86 passed out of 99 reported results.</i>
Barium, Total ** EPA Code: 0002	ug/L	5206	EPA 200.7	700.2	747		635 - 859	Satisfactory <i>91 passed out of 93 reported results.</i>
Cadmium, Total ** EPA Code: 0003	ug/L	5206	EPA 200.9	18.2	18.7		15 - 22.4	Satisfactory <i>96 passed out of 100 reported results.</i>
Chromium, Total ** EPA Code: 0004	ug/L	5206	EPA 200.9	34.1	30		25.5 - 34.5	Satisfactory <i>93 passed out of 101 reported results.</i>
Mercury, Total ** EPA Code: 0006	ug/L	5206	EPA 245.1	7.837	6.95		4.87 - 9.04	Satisfactory <i>92 passed out of 97 reported results.</i>
Nickel, Total ** EPA Code: 0142	ug/L	5206	EPA 200.7	120.3	98.6		83.8 - 113	Unsatisfactory <== <i>83 passed out of 86 reported results.</i>
Lead, Total ** EPA Code: 0005	ug/L	5206	EPA 200.9	17.9	16.7		11.7 - 21.7	Satisfactory <i>114 passed out of 118 reported results.</i>
Antimony, Total ** EPA Code: 0140	ug/L	5206	EPA 200.9	45.9	45		31.5 - 58.5	Satisfactory <i>75 passed out of 78 reported results.</i>

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Sample: Potable Water Metals								
Selenium, Total ** EPA Code: 0007	ug/L	5206	EPA 200.9	70.4	68.3		54.6 - 82	Satisfactory <i>92 passed out of 95 reported results.</i>
Thallium, Total ** EPA Code: 0143	ug/L	5206	EPA 200.9	8.4	8.93		6.25 - 11.6	Satisfactory <i>78 passed out of 80 reported results.</i>
Sample: Potable Water Minerals								
Nitrate (as N) ** EPA Code: 0009	mg/L	5202	EPA 353.2	7.402	7.31		6.58 - 8.04	Satisfactory <i>99 passed out of 107 reported results.</i>
Sample: Potable Water Mixed Esters								
Di (2-ethylhexyl) adipate ** EPA Code: 0134	ug/L	5208	EPA 525.2	51.3	41.3		18.7 - 63.9	Satisfactory <i>28 passed out of 30 reported results.</i>
Bis(2-ethylhexyl) phthalate ** EPA Code: 0136	ug/L	5208	EPA 525.2	63.1	38.2		16.5 - 59.9	Unsatisfactory <== <i>26 passed out of 28 reported results.</i>
Sample: Potable Water Mixed Herbicides								
2,4-D ** EPA Code: 0015	ug/L	5217	EPA 515.1	69.9	53		26.5 - 79.5	Satisfactory <i>29 passed out of 32 reported results.</i>
Pichloram ** EPA Code: 0117	ug/L	5217	EPA 515.1	28.7	18.9		0.363 - 37.5	Satisfactory <i>29 passed out of 29 reported results.</i>
2,4,5-TP (Silvex) ** EPA Code: 0016	ug/L	5217	EPA 515.1	99.4	84.5		42.3 - 127	Satisfactory <i>27 passed out of 32 reported results.</i>

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Mixed Pesticides II								
Alachlor ** EPA Code: 0093	ug/L	5207	EPA 507	3.69	4.08		2.24 - 5.92	Satisfactory <i>33 passed out of 33 reported results.</i>
Atrazine ** EPA Code: 0094	ug/L	5207	EPA 507	9.45	9.49		5.22 - 13.8	Satisfactory <i>28 passed out of 32 reported results.</i>
Simazine ** EPA Code: 0113	ug/L	5207	EPA 507	8.06	7.2		1.93 - 12.5	Satisfactory <i>32 passed out of 33 reported results.</i>
Sample: Potable Water Mixed Pesticides I								
Endrin ** EPA Code: 0011	ug/L	5207	EPA 508	1.74	2.21		1.55 - 2.87	Satisfactory <i>32 passed out of 38 reported results.</i>
Hexachlorobenzene ** EPA Code: 0172	ug/L	5207	EPA 508	0.94	1.04		0.54 - 1.55	Satisfactory <i>28 passed out of 28 reported results.</i>
Heptachlor ** EPA Code: 0095	ug/L	5207	EPA 508	2.15	2.65		1.46 - 3.84	Satisfactory <i>31 passed out of 34 reported results.</i>
Heptachlor epoxide ** EPA Code: 0096	ug/L	5207	EPA 508	0.98	1.09		0.6 - 1.58	Satisfactory <i>32 passed out of 34 reported results.</i>
Lindane ** EPA Code: 0012	ug/L	5207	EPA 508	1.34	1.9		1.05 - 2.76	Satisfactory <i>35 passed out of 36 reported results.</i>
Methoxychlor ** EPA Code: 0013	ug/L	5207	EPA 508	25.3	32.8		18 - 47.6	Satisfactory <i>37 passed out of 37 reported results.</i>

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Microextractables								
1,2-Dibromo-3-chloropropane ** EPA Code: 0045	ug/L	5222	EPA 504.1	0.873	1.38		0.828 - 1.93	Satisfactory 38 passed out of 44 reported results.
1,2-Dibromoethane ** EPA Code: 0046	ug/L	5222	EPA 504.1	0.679	0.886		0.532 - 1.24	Satisfactory 36 passed out of 44 reported results.
Sample: Potable Water Volatile Aromatics								
1,2,4-Trichlorobenzene ** EPA Code: 0076	ug/L	5221	EPA 524.2	3.69	4.41		2.65 - 6.17	Satisfactory 81 passed out of 84 reported results.
1,2-Dichlorobenzene ** EPA Code: 0054	ug/L	5221	EPA 524.2	8.73	8.82		5.29 - 12.3	Satisfactory 82 passed out of 85 reported results.
1,4-Dichlorobenzene ** EPA Code: 0041	ug/L	5221	EPA 524.2	< 0.2	< 1			Satisfactory 81 passed out of 83 reported results.
Benzene ** EPA Code: 0039	ug/L	5221	EPA 524.2	8.75	8.05		4.83 - 11.3	Satisfactory 82 passed out of 84 reported results.
Chlorobenzene ** EPA Code: 0049	ug/L	5221	EPA 524.2	6.77	6.73		4.04 - 9.42	Satisfactory 82 passed out of 85 reported results.
Ethyl benzene ** EPA Code: 0048	ug/L	5221	EPA 524.2	3.56	3.24		1.94 - 4.54	Satisfactory 78 passed out of 84 reported results.
m-Xylene EPA Code: N/A	ug/L	5221	EPA 524.2	< 0.5	< 0.5			Satisfactory 80 passed out of 85 reported results.

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Volatile Aromatics								
o-Xylene EPA Code: N/A	ug/L	5221	EPA 524.2	< 0.2	< 1			Satisfactory 83 passed out of 85 reported results.
p-Xylene EPA Code: N/A	ug/L	5221	EPA 524.2	35.2	33.9		27.1 - 40.7	Satisfactory 65 passed out of 83 reported results.
Styrene ** EPA Code: 0053	ug/L	5221	EPA 524.2	2.31	2.47		1.48 - 3.46	Satisfactory 81 passed out of 86 reported results.
Toluene ** EPA Code: 0047	ug/L	5221	EPA 524.2	3.14	3.09		1.85 - 4.33	Satisfactory 82 passed out of 85 reported results.
Sample: Potable Water Volatile Halocarbons								
1,1,1-Trichloroethane ** EPA Code: 0036	ug/L	5220	EPA 524.2	< 0.2	< 1			Satisfactory 83 passed out of 85 reported results.
1,1,2-Trichloroethane ** EPA Code: 0061	ug/L	5220	EPA 524.2	4.7	4.42		2.65 - 6.19	Satisfactory 75 passed out of 85 reported results.
1,1-Dichloroethene ** EPA Code: 0034	ug/L	5220	EPA 524.2	3.78	3.48		2.09 - 4.87	Satisfactory 72 passed out of 84 reported results.
1,2-Dichloroethane ** EPA Code: 0035	ug/L	5220	EPA 524.2	< 0.2	< 1			Satisfactory 82 passed out of 84 reported results.
cis-1,2-Dichloroethene ** EPA Code: 0043	ug/L	5220	EPA 524.2	< 0.2	< 1			Satisfactory 79 passed out of 83 reported results.

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Sample: Potable Water Volatile Halocarbons								
1,2-Dichloropropane ** EPA Code: 0044	ug/L	5220	EPA 524.2	0.275	< 1			Unsatisfactory <== 74 passed out of 84 reported results.
Carbon tetrachloride ** EPA Code: 0037	ug/L	5220	EPA 524.2	9.13	8.58		5.15 - 12	Satisfactory 75 passed out of 84 reported results.
Methylene chloride ** EPA Code: 0055	ug/L	5220	EPA 524.2	8.02	7.47		4.48 - 10.5	Satisfactory 71 passed out of 85 reported results.
trans-1,2-Dichloroethene ** EPA Code: 0042	ug/L	5220	EPA 524.2	7.97	7.58		4.55 - 10.6	Satisfactory 76 passed out of 85 reported results.
Tetrachloroethene ** EPA Code: 0040	ug/L	5220	EPA 524.2	4.94	5.15		3.09 - 7.21	Satisfactory 78 passed out of 85 reported results.
Trichloroethene ** EPA Code: 0038	ug/L	5220	EPA 524.2	6.78	6.18		3.71 - 8.65	Satisfactory 76 passed out of 85 reported results.
Vinyl chloride ** EPA Code: 0032	ug/L	5220	EPA 524.2	9.44	8.27		4.96 - 11.6	Satisfactory 73 passed out of 84 reported results.
Sample: Potable Water Chlordane								
Chlordane Total ** EPA Code: 0097	ug/L	5214	EPA 508	6.67	7.78		4.28 - 11.3	Satisfactory 34 passed out of 35 reported results.

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Metals II								
Total Beryllium ** EPA Code: N/A	ug/L	5206	EPA 200.7	7.1034	8.33		7.08 - 9.58	Satisfactory <i>75 passed out of 82 reported results.</i>
Sample: Potable Water Nitrite								
Nitrite ** EPA Code: 0092	mg/L	5227	Invalid Method Code: 9142	1.699	1.67		1.42 - 1.92	Satisfactory <i>87 passed out of 96 reported results.</i>
Sample: Potable Water Benzo(a)pyrene								
Benzo(a)pyrene ** EPA Code: 0122	ug/L	5209	EPA 525.2	1.24	1.44		0.446 - 2.44	Satisfactory <i>26 passed out of 29 reported results.</i>
Sample: Potable Water Toxaphene								
Toxaphene ** EPA Code: 0014	ug/L	5216	EPA 508	8.82	18.1		9.96 - 26.2	Unsatisfactory <== <i>30 passed out of 36 reported results.</i>
Sample: Potable Water Trihalomethanes								
Bromodichloromethane ** EPA Code: 0019	ug/L	5213	EPA 524.2	19.9	18.2		14.6 - 21.8	Satisfactory <i>69 passed out of 79 reported results.</i>
Bromoform ** EPA Code: 0018	ug/L	5213	EPA 524.2	13.3	13.8		11 - 16.6	Satisfactory <i>70 passed out of 78 reported results.</i>
Dibromochloromethane ** EPA Code: 0020	ug/L	5213	EPA 524.2	8.43	8.42		6.32 - 10.5	Satisfactory <i>72 passed out of 77 reported results.</i>

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Sample: Potable Water Trihalomethanes								
Chloroform **	ug/L	5213	EPA 524.2	28.7	25.6		20.5 - 30.7	Satisfactory
EPA Code: 0017							69 passed out of 78 reported results.	