

**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: POB 25046-MS 407-BLDG 95
 CO00009 DENVER, CO-80225-0046
 United States
 (303) 236-2000
 Director: MR. GREGORY MOHRMAN

Shipment Date : 14-Apr-2003
 Closing Date : 29-May-2003
 Score Date : 17-Jun-2003

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: 262 Potable Water Chemistry

Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Diquat								
Diquat (as Diquat dibromide.H2O) **	ug/L	6210	EPA 549.2	10.98	30.1		2.2 - 58.1	Satisfactory
EPA Code: 0137								14 passed out of 14 reported results.
Sample: Potable Water Metals								
Arsenic, Total ** EPA Code: 0001	ug/L	6206	EPA 200.9	136	134		118 - 151	Satisfactory 82 passed out of 91 reported results.
Barium, Total ** EPA Code: 0002	ug/L	6206	EPA 200.7	1439	1470		1250 - 1690	Satisfactory 81 passed out of 87 reported results.
Beryllium, Total ** EPA Code: 0141	ug/L	6206	EPA 200.7	8.2	8.33		7.08 - 9.58	Satisfactory 66 passed out of 74 reported results.
Cadmium, Total ** EPA Code: 0003	ug/L	6206	EPA 200.9	38.6	38.3		30.6 - 46	Satisfactory 89 passed out of 92 reported results.
Chromium, Total ** EPA Code: 0004	ug/L	6206	EPA 200.9	143	152		129 - 175	Satisfactory 87 passed out of 92 reported results.
Mercury, Total ** EPA Code: 0006	ug/L	6206	EPA 245.1	1.7	8.33		5.83 - 10.8	Unsatisfactory <== 85 passed out of 91 reported results.
Nickel, Total ** EPA Code: 0142	ug/L	6206	EPA 200.7	170	183		156 - 210	Satisfactory 77 passed out of 80 reported results.
Lead, Total ** EPA Code: 0005	ug/L	6206	EPA 200.9	77.3	75		52.5 - 97.5	Satisfactory 106 passed out of 110 reported results.

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Sample: Potable Water Metals								
Antimony, Total ** EPA Code: 0140	ug/L	6206	EPA 200.9	33.6	31.7		22.2 - 41.2	Satisfactory <i>67 passed out of 71 reported results.</i>
Selenium, Total ** EPA Code: 0007	ug/L	6206	EPA 200.9	75.7	75		60 - 90	Satisfactory <i>83 passed out of 87 reported results.</i>
Thallium, Total ** EPA Code: 0143	ug/L	6206	EPA 200.9	7.8	8.33		5.83 - 10.8	Satisfactory <i>65 passed out of 73 reported results.</i>
Sample: Potable Water Minerals								
Nitrate (as N) ** EPA Code: 0009	mg/L	6202	EPA 353.2	6.465	6.61		5.95 - 7.27	Satisfactory <i>93 passed out of 101 reported results.</i>
Sample: Potable Water Mixed Esters								
Di (2-ethylhexyl) adipate ** EPA Code: 0134	ug/L	6208	EPA 525.2	34	30.3		13.3 - 47.4	Satisfactory <i>24 passed out of 27 reported results.</i>
Bis(2-ethylhexyl) phthalate ** EPA Code: 0136	ug/L	6208	EPA 525.2	14.8	12.4		4.97 - 19.8	Satisfactory <i>23 passed out of 27 reported results.</i>
Sample: Potable Water Mixed Herbicides								
2,4-D ** EPA Code: 0015	ug/L	6217	EPA 515.1	84.4	86.6		43.3 - 130	Satisfactory <i>25 passed out of 29 reported results.</i>
Pichloram ** EPA Code: 0117	ug/L	6217	EPA 515.1	23.6	18		0.392 - 35.6	Satisfactory <i>26 passed out of 27 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 Herbicides								
2,4,5-TP (Silvex) ** EPA Code: 0016	ug/L	6217	EPA 515.1	27.7	27.6		13.8 - 41.4	Satisfactory <i>27 passed out of 29 reported results.</i>
Sample: Potable Water Mixed Pesticides II								
Alachlor ** EPA Code: 0093	ug/L	6207	EPA 507	3.16	2.67		1.47 - 3.87	Satisfactory <i>32 passed out of 33 reported results.</i>
Atrazine ** EPA Code: 0094	ug/L	6207	EPA 507	9.87	9.86		5.42 - 14.3	Satisfactory <i>30 passed out of 33 reported results.</i>
Simazine ** EPA Code: 0113	ug/L	6207	EPA 507	4.91	5.29		1.4 - 9.18	Satisfactory <i>30 passed out of 33 reported results.</i>
Sample: Potable Water Mixed Pesticides I								
Endrin ** EPA Code: 0011	ug/L	6207	EPA 508	2.01	2.66		1.86 - 3.46	Satisfactory <i>34 passed out of 35 reported results.</i>
Hexachlorobenzene ** EPA Code: 0172	ug/L	6207	EPA 508	0.987	1.21		0.628 - 1.79	Satisfactory <i>26 passed out of 29 reported results.</i>
Heptachlor ** EPA Code: 0095	ug/L	6207	EPA 508	2.22	3.15		1.73 - 4.57	Satisfactory <i>31 passed out of 32 reported results.</i>
Heptachlor epoxide ** EPA Code: 0096	ug/L	6207	EPA 508	0.934	1.26		0.693 - 1.83	Satisfactory <i>31 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 I								
Lindane ** EPA Code: 0012	ug/L	6207	EPA 508	1.72	2.32		1.28 - 3.36	Satisfactory <i>33 passed out of 34 reported results.</i>
Methoxychlor ** EPA Code: 0013	ug/L	6207	EPA 508	28.01	39.4		21.7 - 57.1	Satisfactory <i>35 passed out of 35 reported results.</i>
Sample: Potable Water Microextractables								
1,2-Dibromo-3-chloropropane ** EPA Code: 0045	ug/L	6222	EPA 504.1	1.31	1.19		0.714 - 1.67	Satisfactory <i>37 passed out of 40 reported results.</i>
1,2-Dibromoethane ** EPA Code: 0046	ug/L	6222	EPA 504.1	1.77	1.76		1.06 - 2.46	Satisfactory <i>37 passed out of 40 reported results.</i>
Sample: Potable Water Volatile Aromatics								
1,2,4-Trichlorobenzene ** EPA Code: 0076	ug/L	6221	EPA 524.2	< 0.2	< 2			Satisfactory <i>78 passed out of 80 reported results.</i>
1,2-Dichlorobenzene ** EPA Code: 0054	ug/L	6221	EPA 524.2	21.7	17.6		14.1 - 21.1	Unsatisfactory <== <i>76 passed out of 81 reported results.</i>
1,4-Dichlorobenzene ** EPA Code: 0041	ug/L	6221	EPA 524.2	20.7	17.4		13.9 - 20.9	Satisfactory <i>73 passed out of 80 reported results.</i>
Benzene ** EPA Code: 0039	ug/L	6221	EPA 524.2	3.68	3.28		1.97 - 4.59	Satisfactory <i>81 passed out of 82 reported results.</i>

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Volatile Aromatics								
Chlorobenzene ** EPA Code: 0049	ug/L	6221	EPA 524.2	< 0.2	< 2			Satisfactory 81 passed out of 81 reported results.
Ethyl benzene ** EPA Code: 0048	ug/L	6221	EPA 524.2	11.3	9.34		5.6 - 13.1	Satisfactory 79 passed out of 80 reported results.
m-Xylene EPA Code: N/A	ug/L	6221	EPA 524.2	< 0.5	< 0.5			Satisfactory 75 passed out of 81 reported results.
o-Xylene EPA Code: N/A	ug/L	6221	EPA 524.2	< 0.2	< 2			Satisfactory 79 passed out of 81 reported results.
p-Xylene EPA Code: N/A	ug/L	6221	EPA 524.2	55.1	44.9		35.9 - 53.9	Unsatisfactory <== 66 passed out of 80 reported results.
Styrene ** EPA Code: 0053	ug/L	6221	EPA 524.2	19.9	17.8		14.2 - 21.4	Satisfactory 74 passed out of 81 reported results.
Toluene ** EPA Code: 0047	ug/L	6221	EPA 524.2	10.6	8.98		5.39 - 12.6	Satisfactory 79 passed out of 82 reported results.
Sample: Potable Water Volatile Halocarbons								
1,1,1-Trichloroethane ** EPA Code: 0036	ug/L	6220	EPA 524.2	15	17.3		13.8 - 20.8	Satisfactory 75 passed out of 81 reported results.
1,1,2-Trichloroethane ** EPA Code: 0061	ug/L	6220	EPA 524.2	7.36	7.12		4.27 - 9.97	Satisfactory 81 passed out of 81 reported results.

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Analyte Name	Units	Sample ID	Method	Result	Mean/Target	Warning Limits	Acceptance Limits	Score
Sample: Potable Water Volatile Halocarbons								
1,1-Dichloroethene ** EPA Code: 0034	ug/L	6220	EPA 524.2	12.2	14.9		11.9 - 17.9	Satisfactory <i>63 passed out of 80 reported results.</i>
1,2-Dichloroethane ** EPA Code: 0035	ug/L	6220	EPA 524.2	< 0.2	< 2			Satisfactory <i>81 passed out of 81 reported results.</i>
cis-1,2-Dichloroethene ** EPA Code: 0043	ug/L	6220	EPA 524.2	< 0.2	< 2			Satisfactory <i>76 passed out of 80 reported results.</i>
1,2-Dichloropropane ** EPA Code: 0044	ug/L	6220	EPA 524.2	18.1	16.6		13.3 - 19.9	Satisfactory <i>77 passed out of 81 reported results.</i>
Carbon tetrachloride ** EPA Code: 0037	ug/L	6220	EPA 524.2	3.01	3.94		2.36 - 5.52	Satisfactory <i>78 passed out of 81 reported results.</i>
Methylene chloride ** EPA Code: 0055	ug/L	6220	EPA 524.2	11.6	11		8.8 - 13.2	Satisfactory <i>69 passed out of 81 reported results.</i>
trans-1,2-Dichloroethene ** EPA Code: 0042	ug/L	6220	EPA 524.2	32.4	33		26.4 - 39.6	Satisfactory <i>74 passed out of 81 reported results.</i>
Tetrachloroethene ** EPA Code: 0040	ug/L	6220	EPA 524.2	6.48	8.37		5.02 - 11.7	Satisfactory <i>78 passed out of 81 reported results.</i>
Trichloroethene ** EPA Code: 0038	ug/L	6220	EPA 524.2	4.78	5.05		3.03 - 7.07	Satisfactory <i>78 passed out of 81 reported results.</i>

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Sample: Potable Water Volatile Halocarbons								
Vinyl chloride ** EPA Code: 0032	ug/L	6220	EPA 524.2	22.5	22.1		13.3 - 30.9	Satisfactory <i>70 passed out of 81 reported results.</i>
Sample: Potable Water Chlordane								
Chlordane Total ** EPA Code: 0097	ug/L	6214	EPA 508	3.31	3.92		2.16 - 5.68	Satisfactory <i>31 passed out of 34 reported results.</i>
Sample: Potable Water Nitrite								
Nitrite (as N) ** EPA Code: 0092	mg/L	6227	Invalid Method Code: 9142	0.465	0.47		0.4 - 0.541	Satisfactory <i>78 passed out of 86 reported results.</i>
Sample: Potable Water Benzo(a)pyrene								
Benzo(a)pyrene ** EPA Code: 0122	ug/L	6209	EPA 525.2	0.253	0.206		0.0793 - 0.333	Satisfactory <i>19 passed out of 26 reported results.</i>
Sample: Potable Water Trihalomethanes								
Bromodichloromethane ** EPA Code: 0019	ug/L	6213	EPA 524.2	47	8.25		4.95 - 11.6	Unsatisfactory <== <i>74 passed out of 77 reported results.</i>
Bromoform ** EPA Code: 0018	ug/L	6213	EPA 524.2	8.77	10.6		8.48 - 12.7	Satisfactory <i>68 passed out of 76 reported results.</i>
Dibromochloromethane ** EPA Code: 0020	ug/L	6213	EPA 524.2	8.74	3.6		2.71 - 4.49	Unsatisfactory <== <i>68 passed out of 75 reported results.</i>

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Sample: Potable Water Trihalomethanes								
Chloroform **	ug/L	6213	EPA 524.2	3.46	43.7		35 - 52.4	Unsatisfactory <==
EPA Code: 0017								71 passed out of 77 reported results.