

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

Proficiency Test Report

Lab Id: 11642 USGS NATIONAL WATER LAB
 POB 25046-MS 407-BLDG 95
 EPA Lab Code: DENVER, CO-80225-0046
 CO00009 (303) 236-2000
 Director: MR. GREGORY MOHRMAN

Shipment Date : 06-Oct-2003
 Closing Date : 20-Nov-2003
 Score Date : 10-Dec-2003

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 ** indicates NVLAP accredited analyte. Lab Code 200387-0. ELAP is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 267 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	6710	EPA 549.2	4.08	21.3		2.95 - 39.6	Satisfactory
EPA Code: 0137								13 passed out of 14 reported results.
Sample: Potable Water Metals								
Arsenic, Total ** EPA Code: 0001	ug/L	6706	EPA 200.9	90.3	87.9		77.3 - 98.6	Satisfactory
								93 passed out of 103 reported results.
Barium, Total ** EPA Code: 0002	ug/L	6706	EPA 200.7	1216	1280		1090 - 1470	Satisfactory
								89 passed out of 92 reported results.
Beryllium, Total ** EPA Code: 0141	ug/L	6706	EPA 200.7	6.6	6.67		5.67 - 7.67	Satisfactory
								75 passed out of 79 reported results.
Cadmium, Total ** EPA Code: 0003	ug/L	6706	EPA 200.9	13.75	13.3		10.6 - 16	Satisfactory
								93 passed out of 100 reported results.
Chromium, Total ** EPA Code: 0004	ug/L	6706	EPA 200.9	164.2	168		143 - 193	Satisfactory
								95 passed out of 97 reported results.
Mercury, Total ** EPA Code: 0006	ug/L	6706	EPA 245.1	Not Reported				Unsatisfactory <==
								No data was reported for this Sample/Analyte by this Lab.
Nickel, Total ** EPA Code: 0142	ug/L	6706	EPA 200.7	401.9	433		368 - 498	Satisfactory
								84 passed out of 87 reported results.
Lead, Total ** EPA Code: 0005	ug/L	6706	EPA 200.9	42.5	38.3		26.8 - 49.8	Satisfactory
								104 passed out of 108 reported results.

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Sample: Potable Water Metals								
Antimony, Total ** EPA Code: 0140	ug/L	6706	EPA 200.9	26.7	26.7		18.7 - 34.7	Satisfactory <i>65 passed out of 67 reported results.</i>
Selenium, Total ** EPA Code: 0007	ug/L	6706	EPA 200.9	35.5	33.3		26.6 - 40	Satisfactory <i>78 passed out of 85 reported results.</i>
Thallium, Total ** EPA Code: 0143	ug/L	6706	EPA 200.9	6.8	6.67		4.67 - 8.67	Satisfactory <i>62 passed out of 69 reported results.</i>
Sample: Potable Water Minerals								
Nitrate (as N) ** EPA Code: 0009	mg/L	6702	EPA 353.2	5.785	6		5.4 - 6.6	Satisfactory <i>92 passed out of 108 reported results.</i>
Sample: Potable Water Mixed Esters								
Di (2-ethylhexyl) adipate ** EPA Code: 0134	ug/L	6708	EPA 525.2	20.4	21.6		8.89 - 34.2	Satisfactory <i>22 passed out of 25 reported results.</i>
Bis(2-ethylhexyl) phthalate ** EPA Code: 0136	ug/L	6708	EPA 525.2	19.0	18.5		7.69 - 29.2	Satisfactory <i>25 passed out of 26 reported results.</i>
Sample: Potable Water Mixed Herbicides								
2,4-D ** EPA Code: 0015	ug/L	6717	EPA 515.1	136.3	126		63 - 189	Satisfactory <i>25 passed out of 26 reported results.</i>
Pichloram ** EPA Code: 0117	ug/L	6717	EPA 515.1	52.5	47.8		D.L. - 74.5	Satisfactory <i>24 passed out of 24 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	6717	EPA 515.1	139.5	124		62 - 186	Satisfactory <i>25 passed out of 26 reported results.</i>
Sample: Potable Water Mixed Pesticides II								
Alachlor ** EPA Code: 0093	ug/L	6707	EPA 507	11.639	12		6.6 - 17.4	Satisfactory <i>33 passed out of 36 reported results.</i>
Atrazine ** EPA Code: 0094	ug/L	6707	EPA 507	11.479	12.3		6.77 - 17.8	Satisfactory <i>29 passed out of 34 reported results.</i>
Simazine ** EPA Code: 0113	ug/L	6707	EPA 507	27.639	26.9		7.34 - 46.4	Satisfactory <i>31 passed out of 33 reported results.</i>
Sample: Potable Water Mixed Pesticides I								
Endrin ** EPA Code: 0011	ug/L	6707	EPA 508	0.984	1.36		0.952 - 1.77	Satisfactory <i>33 passed out of 38 reported results.</i>
Hexachlorobenzene ** EPA Code: 0172	ug/L	6707	EPA 508	2.049	2.19		1.16 - 3.22	Satisfactory <i>31 passed out of 32 reported results.</i>
Heptachlor ** EPA Code: 0095	ug/L	6707	EPA 508	3.161	4.28		2.35 - 6.21	Satisfactory <i>34 passed out of 35 reported results.</i>
Heptachlor epoxide ** EPA Code: 0096	ug/L	6707	EPA 508	2.086	2.54		1.4 - 3.68	Satisfactory <i>33 passed out of 35 reported results.</i>
Lindane ** EPA Code: 0012	ug/L	6707	EPA 508	2.854	3.63		2 - 5.26	Satisfactory <i>36 passed out of 38 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								
Methoxychlor ** EPA Code: 0013	ug/L	6707	EPA 508	13.315	16.4		9.02 - 23.8	Satisfactory <i>36 passed out of 38 reported results.</i>
Sample: Potable Water Microextractables								
1,2-Dibromo-3-chloropropane ** EPA Code: 0045	ug/L	6722	EPA 504.1	1.6626	1.58		0.948 - 2.21	Satisfactory <i>35 passed out of 37 reported results.</i>
1,2-Dibromoethane ** EPA Code: 0046	ug/L	6722	EPA 504.1	0.5741	0.622		0.373 - 0.871	Satisfactory <i>35 passed out of 37 reported results.</i>
Sample: Potable Water Volatile Aromatics								
1,2,4-Trichlorobenzene ** EPA Code: 0076	ug/L	6721	EPA 524.2	5.40	5.87		3.52 - 8.22	Satisfactory <i>73 passed out of 78 reported results.</i>
1,2-Dichlorobenzene ** EPA Code: 0054	ug/L	6721	EPA 524.2	7.74	7.28		4.37 - 10.2	Satisfactory <i>79 passed out of 79 reported results.</i>
1,4-Dichlorobenzene ** EPA Code: 0041	ug/L	6721	EPA 524.2	8.12	8.33		5 - 11.7	Satisfactory <i>79 passed out of 79 reported results.</i>
Benzene ** EPA Code: 0039	ug/L	6721	EPA 524.2	14.3	14.3		11.4 - 17.2	Satisfactory <i>77 passed out of 79 reported results.</i>
Chlorobenzene ** EPA Code: 0049	ug/L	6721	EPA 524.2	< 0.2	< 1.2			Satisfactory <i>79 passed out of 79 reported results.</i>
Ethyl benzene ** EPA Code: 0048	ug/L	6721	EPA 524.2	15.9	15.2		12.2 - 18.2	Satisfactory <i>73 passed out of 79 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								
m-Xylene EPA Code: N/A	ug/L	6721	EPA 524.2	< 0.2	< 1.2			Satisfactory 79 passed out of 79 reported results.
o-Xylene EPA Code: N/A	ug/L	6721	EPA 524.2	20.3	18.1		14.5 - 21.7	Satisfactory 73 passed out of 79 reported results.
p-Xylene EPA Code: N/A	ug/L	6721	EPA 524.2	< 0.2	< 1.2			Satisfactory 79 passed out of 79 reported results.
Styrene ** EPA Code: 0053	ug/L	6721	EPA 524.2	18.6	16.6		13.3 - 19.9	Satisfactory 75 passed out of 79 reported results.
Toluene ** EPA Code: 0047	ug/L	6721	EPA 524.2	7.84	7.97		4.78 - 11.2	Satisfactory 79 passed out of 79 reported results.
Sample: Potable Water Volatile Halocarbons								
1,1,1-Trichloroethane ** EPA Code: 0036	ug/L	6720	EPA 524.2	18.7	18.4		14.7 - 22.1	Satisfactory 74 passed out of 79 reported results.
1,1,2-Trichloroethane ** EPA Code: 0061	ug/L	6720	EPA 524.2	16.7	15.6		12.5 - 18.7	Satisfactory 75 passed out of 78 reported results.
1,1-Dichloroethene ** EPA Code: 0034	ug/L	6720	EPA 524.2	9.93	10.7		8.56 - 12.8	Satisfactory 66 passed out of 78 reported results.
1,2-Dichloroethane ** EPA Code: 0035	ug/L	6720	EPA 524.2	< 0.2	< 1.2			Satisfactory 79 passed out of 79 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								
cis-1,2-Dichloroethene ** EPA Code: 0043	ug/L	6720	EPA 524.2	< 0.2	< 1.2			Satisfactory 77 passed out of 79 reported results.
1,2-Dichloropropane ** EPA Code: 0044	ug/L	6720	EPA 524.2	18.4	18		14.4 - 21.6	Satisfactory 79 passed out of 79 reported results.
Carbon tetrachloride ** EPA Code: 0037	ug/L	6720	EPA 524.2	10.6	10.8		8.64 - 13	Satisfactory 69 passed out of 79 reported results.
Methylene chloride ** EPA Code: 0055	ug/L	6720	EPA 524.2	< 1.0	< 1.2			Satisfactory 68 passed out of 79 reported results.
trans-1,2-Dichloroethene ** EPA Code: 0042	ug/L	6720	EPA 524.2	24.4	24.2		19.4 - 29	Satisfactory 70 passed out of 79 reported results.
Tetrachloroethene ** EPA Code: 0040	ug/L	6720	EPA 524.2	13.4	14.6		11.7 - 17.5	Satisfactory 75 passed out of 79 reported results.
Trichloroethene ** EPA Code: 0038	ug/L	6720	EPA 524.2	< 0.2	< 1.2			Satisfactory 77 passed out of 78 reported results.
Vinyl chloride ** EPA Code: 0032	ug/L	6720	EPA 524.2	< 1.0	< 1.2			Satisfactory 80 passed out of 80 reported results.
Sample: Potable Water Chlordane								
Chlordane Total ** EPA Code: 0097	ug/L	6714	EPA 508	14.634	17.4		9.57 - 25.2	Satisfactory 29 passed out of 31 reported results.

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Sample: Potable Water Nitrite								
Nitrite (as N) **	mg/L	6727	EPA 353.2	0.595	0.605		0.514 - 0.696	Satisfactory
EPA Code: 0092								<i>88 passed out of 96 reported results.</i>
Sample: Potable Water Benzo(a)pyrene								
Benzo(a)pyrene **	ug/L	6709	EPA 525.2	1.62	1.31		0.407 - 2.22	Satisfactory
EPA Code: 0122								<i>25 passed out of 26 reported results.</i>
Sample: Potable Water Trihalomethanes								
Bromodichloromethane **	ug/L	6713	EPA 524.2	16.2	15		12.5 - 17.5	Satisfactory
EPA Code: 0019								<i>69 passed out of 76 reported results.</i>
Bromoform **	ug/L	6713	EPA 524.2	5.62	5.3		3.83 - 6.77	Satisfactory
EPA Code: 0018								<i>74 passed out of 77 reported results.</i>
Dibromochloromethane **	ug/L	6713	EPA 524.2	9.65	9.49		7.74 - 11.2	Satisfactory
EPA Code: 0020								<i>69 passed out of 76 reported results.</i>
Chloroform **	ug/L	6713	EPA 524.2	29.9	28.3		23.2 - 33.4	Satisfactory
EPA Code: 0017								<i>71 passed out of 77 reported results.</i>