

PERFORMANCE EVALUATION REPORT
WATER SUPPLY STUDY NUMBER WS032

DATE: 9/10/93

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
TRACE METALS IN MICROGRAMS PER LITER:					
ALUMINUM	1	327	309	274- 335	ACCEPTABLE
ANTIMONY	2	5.36	5.58	3.34- 7.41	ACCEPTABLE
ARSENIC	1	91.3	91.4	76.5- 103	ACCEPTABLE
BARIUM	2	508	511	434- 588	ACCEPTABLE
BERYLLIUM	1	0.96	0.933	0.699- 1.17	ACCEPTABLE
BORON	2	911 **	864	810- 1010	ACCEPTABLE
CADMIUM	1	5.10	4.80	3.94- 5.75	ACCEPTABLE
CHROMIUM	1	70.1	68.1	57.9- 78.3	ACCEPTABLE
COPPER	1	83.7	820	730- 902	NOT ACCEPTABLE
LEAD	1	5.38	5.15	3.61- 6.71	ACCEPTABLE
MANGANESE	1	227	221	203- 234	ACCEPTABLE
MERCURY	1	4.84	5.23	4.36- 6.10	ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.
** SIGNIFICANT BIAS IS ANTICIPATED FOR THIS RESULT.

PAGE 1

LAB ACCREDITATION PROGRAM

AUG 27 1993

CAL DEPT HEALTH SERVICES

PERFORMANCE EVALUATION REPORT
 WATER SUPPLY STUDY NUMBER WS032

DATE: 3/10/93

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
TRACE METALS IN MICROGRAMS PER LITER:					
MOLYBDENUM	2	5.13	5.58	4.80- 8.58	ACCEPTABLE
NICKEL	1	102	95.2	80.9- 109	ACCEPTABLE
SELENIUM	1	59.9	65.9	52.7- 79.1	ACCEPTABLE
SILVER	2	26.2	25.1	21.2- 29.4	ACCEPTABLE
THALLIUM	2	2.64	2.56	1.79- 3.33	ACCEPTABLE
VANADIUM	1	165	160	143- 174	ACCEPTABLE
ZINC	1	91.1	93.8	73.7- 91.1	ACCEPTABLE

NITRATE/NITRITE/FLUORIDE IN MILLIGRAMS PER LITER:					
NITRATE AS N	1	3.31	3.60	3.24- 3.96	ACCEPTABLE
NITRITE AS N	1	2.23	2.30	1.95- 2.64	ACCEPTABLE
FLUORIDE	1	1.90	2.00	1.80- 2.20	ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

PERFORMANCE EVALUATION REPORT

DATE: 6/10/93

WATER SUPPLY STUDY NUMBER WSO32

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
TRIHALOMETHANES IN MICROGRAMS PER LITER:					
BROMODICHLOROMETHANE	1	19.9	22.4	17.9- 26.9	ACCEPTABLE
BROMOFORM	1	27.6	26.4	21.1- 31.7	ACCEPTABLE
CHLORODIBROMOMETHANE	1	18.1	17.9	14.3- 21.5	ACCEPTABLE
CHLOROFORM	1	14.7	17.1	13.7- 20.5	ACCEPTABLE
TOTAL TRIHALOMETHANE	1	80.30	83.8	67.0- 101	ACCEPTABLE

VOLATILE ORGANIC COMPOUNDS IN MICROGRAMS PER LITER:

BENZENE	1	17.2	16.5	13.2- 19.8	ACCEPTABLE
CARBON TETRACHLORIDE	1	13.6	14.5	11.6- 17.4	ACCEPTABLE
CHLOROBENZENE	2	14.2	13.5	10.8- 16.2	ACCEPTABLE
1,2-DICHLOROBENZENE	2	14.0	13.5	10.8- 16.2	ACCEPTABLE
1,4-DICHLOROBENZENE	1	14.6	13.6	10.9- 16.3	ACCEPTABLE
1,2-DICHLOROETHANE	1	14.9	13.3	10.6- 16.0	ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

PERFORMANCE EVALUATION REPORT
WATER SUPPLY STUDY NUMBER WS032

DATE: 8/10/93

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
VOLATILE ORGANIC COMPOUNDS IN MICROGRAMS PER LITER:					
1,1-DICHLOROETHYLENE	1	8.95	9.13	5.48- 12.8	ACCEPTABLE
C 1,2 DICHLOROETHYLENE	2	12.9	12.3	9.84- 14.8	ACCEPTABLE
T 1,2 DICHLOROETHYLENE	2	16.6	16.9	13.5- 20.3	ACCEPTABLE
1,2 DICHLOROPROPANE	2	6.74	6.46	3.98- 9.04	ACCEPTABLE
ETHYLBENZENE	2	12.0	11.8	9.44- 14.2	ACCEPTABLE
STYRENE	2	9.16	8.66	5.20- 12.1	ACCEPTABLE
TETRACHLOROETHYLENE	2	6.95	7.43	4.46- 10.4	ACCEPTABLE
TOLUENE	2	6.57	6.54	3.92- 9.16	ACCEPTABLE
1,1,1-TRICHLOROETHANE	1	9.29	10.1	8.08- 12.1	ACCEPTABLE
TRICHLOROETHYLENE	1	11.4	11.2	8.96- 13.4	ACCEPTABLE
VINYL CHLORIDE	1	3.16	2.57	1.54- 3.60	ACCEPTABLE
TOTAL XYLENES	2	7.94	7.54	4.52- 10.6	ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

PERFORMANCE EVALUATION REPORT

DATE: 8/10/93

WATER SUPPLY STUDY NUMBER WS032

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
VOLATILE ORGANIC COMPOUNDS IN MICROGRAMS PER LITER:					
BROMOMETHANE	3	15.3	16.0	7.98- 22.3	ACCEPTABLE
DICHLOROMETHANE	3	8.70	7.77	5.45- 10.2	ACCEPTABLE
HEXACHLOROBUTADIENE	3		19.3	14.1- 23.8	NOT ACCEPTABLE
1,2,4-TRICHLOROBENZENE	3	14.8	14.1	9.90- 17.1	ACCEPTABLE
1,1,2-TRICHLOROETHANE	3	13.2	13.2	9.58- 15.7	ACCEPTABLE
1,2,3-TRICHLOROPROPANE	3	10.6	9.85	5.96- 12.4	ACCEPTABLE

MISCELLANEOUS ANALYTES:

RESIDUAL FREE CHLORINE (MILLIGRAMS PER LITER)	1	0.890	**	1.09	0.805- 1.21	ACCEPTABLE
TURBIDITY (NTU'S)	1	4.00	**	4.10	3.76- 4.93	ACCEPTABLE
TOTAL FILTERABLE RESIDUE1 (MILLIGRAMS PER LITER)		460	**	275	201- 463	ACCEPTABLE
CALCIUM (MG. CaCO3/L)	1	173		160	149- 172	NOT ACCEPTABLE
PH-UNITS	1	9.50		9.12	8.95- 9.34	NOT ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.
 ** SIGNIFICANT BIAS IS ANTICIPATED FOR THIS RESULT.

PERFORMANCE EVALUATION REPORT

DATE: 9/10/93

WATER SUPPLY STUDY NUMBER WS032

LABORATORY NJ407

ANALYTES	SAMPLE NUMBER	REPORTED VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	PERFORMANCE EVALUATIONS
----------	------------------	-------------------	----------------	----------------------	----------------------------

MISCELLANEOUS ANALYTES:

ALKALINITY (MG. CaCO_3/L)	1	8.76	** 29.0	27.0- 33.6	NOT ACCEPTABLE
CORROSIVITY (LANGELIER IND. AT 20C)	1	0.81	0.846	0.465- 1.13	ACCEPTABLE
SODIUM (MILLIGRAMS PER LITER)	1	14.2	13.3	11.9- 14.8	ACCEPTABLE
SULFATE (MILLIGRAMS PER LITER)	1	26.1	27.0	24.7- 29.4	ACCEPTABLE
TOTAL CYANIDE (MILLIGRAMS PER LITER)	1	0.411	0.400	0.300-0.500	ACCEPTABLE

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.
 ** SIGNIFICANT BIAS IS ANTICIPATED FOR THIS RESULT.